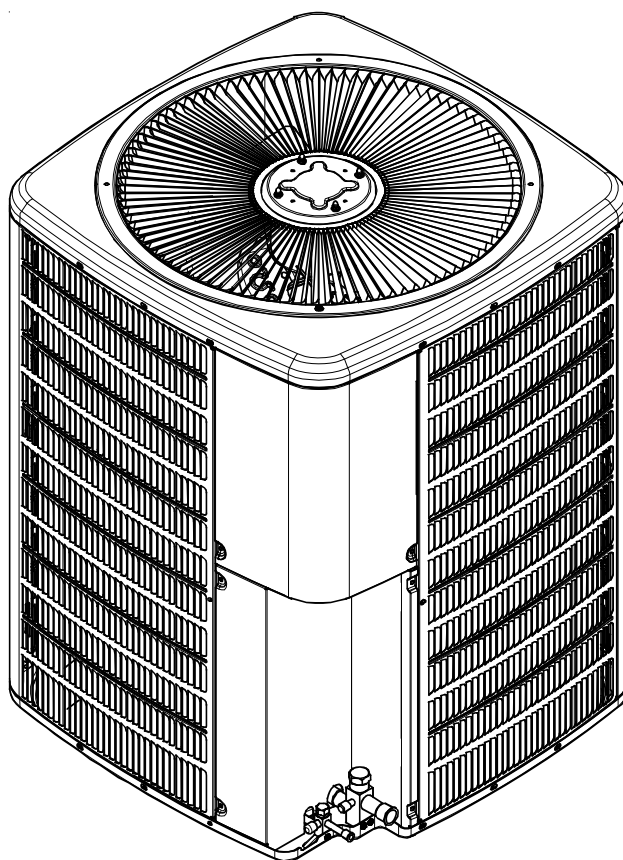




TECHNICAL MANUAL

GSH/VSH 13 SEER Split System Heat Pump

- Refer to Service Manual RS6100004 for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.
- Models listed on page 3.

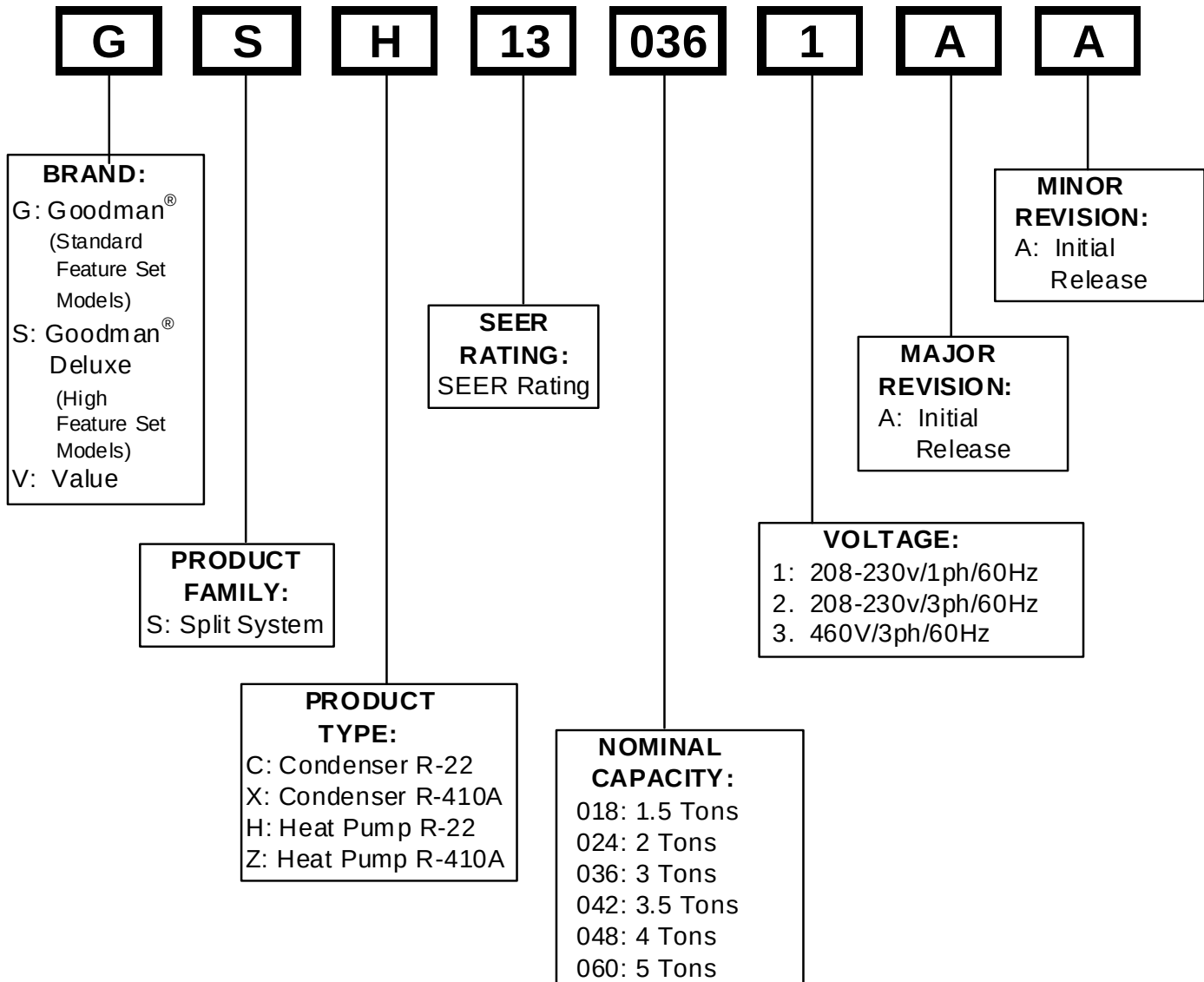


This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures or services performed by an unqualified person.

RT6212003 Rev. 6
March 2009

PRODUCT IDENTIFICATION

The model number is used for positive identification of component parts used in manufacturing. Please use this number when requesting service or parts information.



WARNING

HIGH VOLTAGE!

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.



WARNING

Goodman will not be responsible for any injury or property damage arising from improper service or service procedures. If you install or perform service on this unit, you assume responsibility for any personal injury or property damage which may result. Many jurisdictions require a license to install or service heating and air conditioning equipment.



WARNING

Installation and repair of this unit should be performed ONLY by individuals meeting the requirements of an "entry level technician" as specified by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI). Attempting to install or repair this unit without such background may result in product damage, personal injury or death.

PRODUCT IDENTIFICATION

The model number is used for positive identification of component parts used in manufacturing. Please use this number when requesting service or parts information.

GSH130181A*	GSH130363A*	VSH130181A*
GSH130191A*	GSH130483A*	VSH130191A*
GSH130241A*	GSH130603A*	VSH130241A*
GSH130251A*	GSH130484A*	VSH130251A*
GSH130301A*	GSH130604A*	VSH130301A*
GSH130311A*		VSH130311A*
GSH130361A*		VSH130361A*
GSH130421A*		VSH130421A*
GSH130481A*		VSH130481A*
GSH130601A*		VSH130601A*
GSH130181B*		
GSH130241B*		
GSH130301B*		
GSH130361B*		

** Indicates minor revision & is not used for order entry or inventory management*



WARNING

The United States Environmental Protection Agency ("EPA") has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary by jurisdiction. Should questions arise, contact your local EPA office.



WARNING

Do not connect or use any device that is not design certified by Goodman for use with this unit. Serious property damage, personal injury, reduced unit performance and/or hazardous conditions may result from the use of such non-approved devices.



WARNING

To prevent the risk of property damage, personal injury, or death, do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.

PRODUCT DESIGN

CONDENSING UNIT

GSH/VSH13 SEER heat pump models are available in 1 1/2 through 5 ton sizes. They are designed for 208/230 volt single phase applications. GSH13 3, 4 and 5 ton models are also available for 208/230V 3 phase. Additionally, GSH13 4 and 5 ton units are available for 460V 3 phase applications.

These units are designed for free air discharge. Air is drawn through the outdoor coil by a propeller fan, and is discharged vertically out the top of the unit. No additional restriction (ductwork) shall be applied.

All units come equipped with suction and liquid valves designed for connection to refrigerant-type copper. Non-back seating valves are factory installed to accept the field run copper. The total refrigerant charge for a normal installation is factory installed in the condensing unit. This charge is for the matching evaporator coil and a 15 foot refrigerant line set. Systems should be properly sized by heat gain and loss calculations made according to methods of the Air Conditioning Contractors Association (ACCA) or equivalent. It is the contractors responsibility to ensure the system has adequate capacity to heat or cool the conditioned space.

GSH/VSH13 units use a mix of reciprocating and scroll compressors. There are a number of design characteristics which are different from the scroll compared to the traditional reciprocating compressor.

Due to their design, Scroll compressors are inherently more tolerant of liquid refrigerant.

Note: Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued floodback or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.

These Scroll compressors use white oil which is compatible with 3GS. 3GS oil may be used if additional oil is required.

GSH/VSH13 model heat pumps do not use a reversing relay to energize the reversing valve. The reversing valve is energized in the cooling cycle through the "O" terminal on the room thermostat.

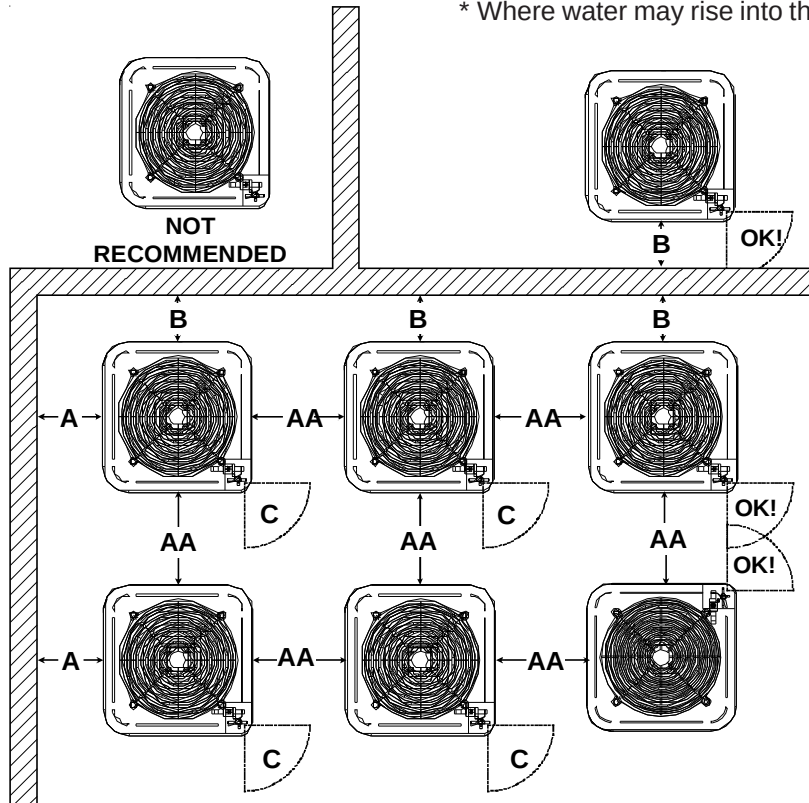
This unit is for outdoor installation only. Refer to minimum figure for clearances from the sides of the unit to full walls and other objects.

NOTE: *This unit cannot be completely enclosed. At least one side must be unrestricted.*

These clearances will help avoid air recirculation. If installing two or more units at the same location, allow at least 24 inches between units. If only one side is restricted (for example, against the outside wall of a house), the unit may be placed as close as 8" to that one wall.

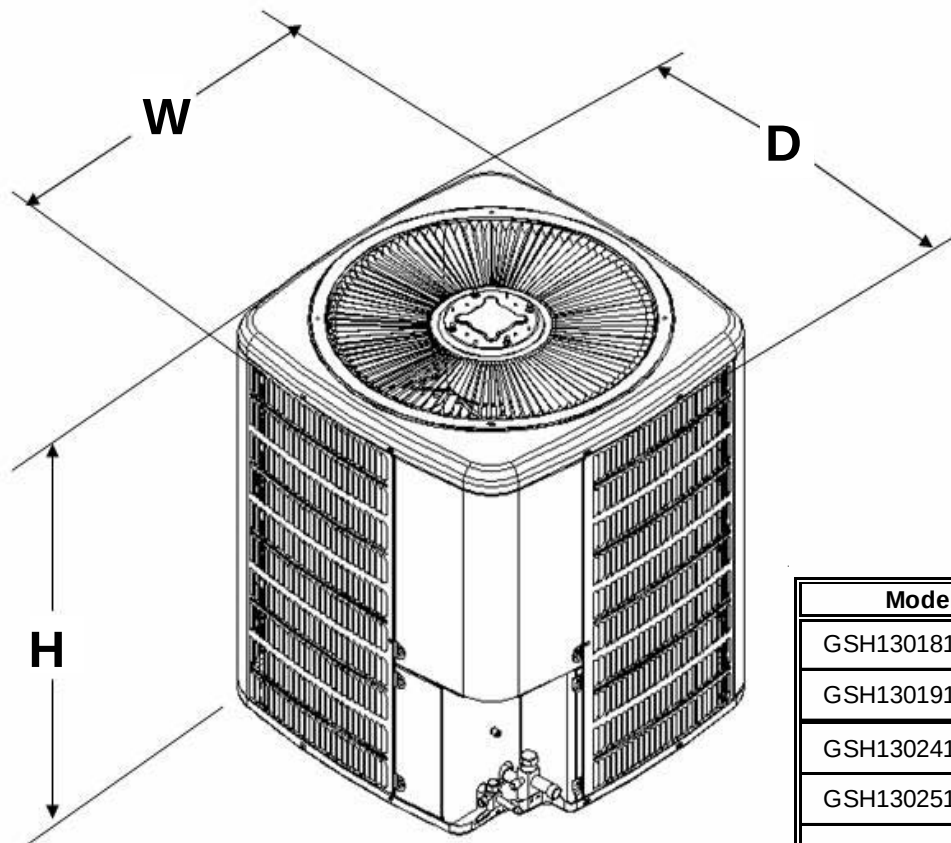
DO NOT locate the unit:

- * Directly under a vent termination for a gas appliance.
- * Within 3 feet of a clothes drier vent
- * Where the refreezing of defrost water would create a hazard
- * Where water may rise into the unit.



Minimum Airflow Clearance				
Model Type	A	B	C	AA
Residential	10"	10"	18"	20"
Light Commercial	12"	12"	18"	24"

PRODUCT DIMENSIONS



Model	Dimensions - W x D x H
VSH130181A*	26 x 26 x 32¼
VSH130191A*	29 x 29 x 34¼
VSH130241A*	26 x 26 x 32¼
VSH130251A*	29 x 29 x 34¾
VSH130301A*	26 x 26 x 34¼
VSH130311A*	29 x 29 x 34¼
VSH130361A*	29 x 29 x 38¼
VSH130421A*	29 x 29 x 32¼
VSH130481A*	29 x 29 x 34¼
VSH130601A*	35½ x 35½ x 34¼

Model	Dimensions - W x D x H
GSH130181A*	29 x 29 x 32¼
GSH130191A*	29 x 29 x 32¼
GSH130241A*	29 x 29 x 34¾
GSH130251A*	29 x 29 x 34¾
GSH130301A*	29 x 29 x 34¼
GSH130311A*	29 x 29 x 34¼
GSH130361A*	29 x 29 x 38¼
GSH130361B*	29 x 29 x 32¼
GSH130421A*	29 x 29 x 32¼
GSH130481A*	29 x 29 x 34¼
GSH130601A*	35½ x 35½ x 34¼

GSH130181B*	26 x 26 x 32¼
GSH130241B*	26 x 26 x 32¼
GSH130301B*	26 x 26 x 34¼
GSH130361B*	29 x 29 x 32¼

Model	Dimensions - W x D x H
GSH130363A*	29 x 29 x 38¼
GSH130483A*	29 x 29 x 34¼
GSH130603A*	35½ x 35½ x 34¼

GSH130484A*	29 x 29 x 34¼
GSH130604A*	35½ x 35½ x 34¼

HEAT PUMP SPECIFICATIONS

GSH130[18-60]1A*

	GSH130181A*	GSH130191A*	GSH130241A*	GSH130251A*	GSH130301A*	GSH130311A*
Cooling Capacity, BTUH	18,000	18,000	23,000	23,000	28,000	28,000
Compressor						
R.L. Amps	6.2	9.0	10.1	10.9	10.8	12.2
L.R. Amps	34	41	51	54	60	63
Loss of Charge Pressure Switch						
Open / Close	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG
Condenser Fan Motor						
Horsepower	1/6	1/6	1/6	1/6	1/6	1/6
F.L. Amps	1.5	1.5	1.5	1.5	1.5	1.5
Liquid Line, Inches O.D.	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction Line, Inches O.D.	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Refrigerant Charge	127	115	106	117	153	153
Design Subcooling Cooling (°F)	9 ± 3	9 ± 3	9 ± 3	9 ± 3	9 ± 3	9 ± 3
Power Supply	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
Minimum Circuit Ampacity ⁽¹⁾	9.3	12.7	14.2	15.1	15	16.7
Maximum Overcurrent Device ⁽²⁾	15	20	20	20	20	20
Electrical Conduit Size						
Power Supply (Inches)	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4
Approximate Shipping Weight	193	193	198	207	199	199

	GSH130361A*	GSH130421A*	GSH130481A*	GSH130601A*
Cooling Capacity, BTUH	35,000	40,000	45,000	55,500
Compressor				
R.L. Amps	12.2	16.5	17.9	25.0
L.R. Amps	73	95	104	148
Loss of Charge Pressure Switch				
Open / Close	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG
Condenser Fan Motor				
Horsepower	1/4	1/4	1/4	1/6
F.L. Amps	1.6	1.6	1.6	1.1
Liquid Line, Inches O.D.	3/8"	3/8"	3/8"	3/8"
Suction Line, Inches O.D.	7/8"	7/8"	7/8"	7/8"
Refrigerant Charge	188	213	223	233
Design Subcooling Cooling (°F)	9 ± 3	9 ± 3	9 ± 3	9 ± 3
Power Supply	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
Minimum Circuit Ampacity ⁽¹⁾	16.9	22.3	24	32.3
Maximum Overcurrent Device ⁽²⁾	20	30	40	50
Electrical Conduit Size				
Power Supply (Inches)	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4
Approximate Shipping Weight	207	219	225	266

⁽¹⁾ Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

⁽²⁾ Maximum Overcurrent Protection: **Must** use fuses or HACR-type Circuit Breakers of the same size as noted.

NOTES:

* Always check the S&R plate for electrical data on the unit being installed.

* Installer will need to supply 7/8" to 1 1/8" adapters for suction line connections.

* Unit is charged with refrigerant for 15' of 3/8" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.

* Installation of these units that require a TXV Kit to be installed on the indoor coil:

PLEASE NOTE: THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT NOT THE INDOOR COIL

HEAT PUMP SPECIFICATIONS

GSH130[18-36]1B*

	GSH130181B*	GSH130241B*	GSH130301B*	GSH130361B*
Cooling Capacity, BTUH	18,000	23,000	28,000	35,000
Compressor				
R.L. Amps	6.2	9.2	10.8	12.2
L.R. Amps	35	43	60	73
Loss of Charge Pressure Switch Open / Close	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG
Condenser Fan Motor				
Horsepower	1/6	1/6	1/6	1/4
F.L. Amps	1.1	1.1	1.1	1.5
Liquid Line, Inches O.D.	3/8"	3/8"	3/8"	3/8"
Suction Line, Inches O.D.	3/4"	3/4"	3/4"	7/8"
Refrigerant Charge	127	122	130	188
Design Subcooling (°F)	9 ± 3	9 ± 3	9 ± 3	9 ± 3
Power Supply	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
Minimum Circuit Ampacity ⁽¹⁾	8.9	12.6	14.6	17
Maximum Overcurrent Device ⁽²⁾	15	20	20	25
Electrical Conduit Size				
Power Supply (Inches)	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4
Approximate Shipping Weight	177	177	185	207

⁽¹⁾ Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

⁽²⁾ Maximum Overcurrent Protection: **Must** use fuses or HACR-type Circuit Breakers of the same size as noted.

NOTES:

* Always check the S&R plate for electrical data on the unit being installed.

* Installer will need to supply 7/8" to 1 1/8" adapters for suction line connections.

* Unit is charged with refrigerant for 15' of 3/8" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.

* Installation of these units that require a TXV Kit to be installed on the indoor coil: **PLEASE NOTE:** THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT NOT THE INDOOR COIL

HEAT PUMP SPECIFICATIONS

GSH130[36-60]3*

GSH130[48-60]4*

	GSH130363A*	GSH130483A*	GSH130603A*	GSH130484A*	GSH130604A*
Cooling Capacity, BTUH	35,000	45,000	55,500	45,000	55,500
Compressor					
R.L. Amps	8.3	12.4	17.3	5.8	6.7
L.R. Amps	48.0	88.0	123.0	44.0	49.5
Loss of Charge Pressure Switch					
Open / Close	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG
Condenser Fan Motor					
Horsepower	1/4	1/4	1/6	1/4	1/6
F.L. Amps	1.6	1.6	1.1	0.8	0.6
Liquid Line, Inches O.D.	3/8"	3/8"	3/8"	3/8"	3/8"
Suction Line, Inches O.D.	7/8"	7/8"	7/8"	7/8"	7/8"
Refrigerant Charge	188	223	233	223	233
Design Subcooling Cooling (°F)	9 ± 3	9 ± 3	9 ± 3	9 ± 3	9 ± 3
Power Supply	208/230-60-3	208/230-60-3	208/230-60-3	460/60/3	460/60/3
Minimum Circuit Ampacity ⁽¹⁾	12.0	17.2	22.7	8.0	9.0
Maximum Overcurrent Device ⁽²⁾	20	20	40	15	15
Electrical Conduit Size					
Power Supply (Inches)	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4
Approximate Shipping Weight	207	225	266	225	266

⁽¹⁾ Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

⁽²⁾ Maximum Overcurrent Protection: **Must** use fuses or HACR-type Circuit Breakers of the same size as noted.

NOTES:

* Always check the S&R plate for electrical data on the unit being installed.

* Installer will need to supply 7/8" to 1 1/8" adapters for suction line connections.

* Unit is charged with refrigerant for 15' of 3/8" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.

* Installation of these units that require a TXV Kit to be installed on the indoor coil: **PLEASE NOTE:** THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT NOT THE INDOOR COIL

HEAT PUMP SPECIFICATIONS

VSH130[18-60]1A*

	VSH130181A*	VSH130191A*	VSH130241A*	VSH130251A*	VSH130301A*	VSH130311A*
Cooling Capacity, BTUH	18,000	18,000	23,000	23,000	28,000	28,000
Compressor						
R.L. Amps	6.2	9.0	10.1	10.9	10.8	12.2
L.R. Amps	34	41	51	54	60	63
Loss of Charge Pressure Switch						
Open / Close	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG
Condenser Fan Motor						
Horsepower	1/6	1/6	1/6	1/6	1/6	1/6
F.L. Amps	1.5	1.5	1.5	1.5	1.5	1.5
Liquid Line, Inches O.D.	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction Line, Inches O.D.	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Refrigerant Charge	127	115	106	117	153	153
Design Subcooling Cooling (°F)	9 ± 3	9 ± 3	9 ± 3	9 ± 3	9 ± 3	9 ± 3
Power Supply	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
Minimum Circuit Ampacity ⁽¹⁾	9.3	12.7	14.2	15.1	15	16.7
Maximum Overcurrent Device ⁽²⁾	15	20	20	20	20	20
Electrical Conduit Size						
Power Supply (Inches)	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4
Approximate Shipping Weight	193	193	198	207	199	199

	VSH130361A*	VSH130421A*	VSH130481A*	VSH130601A*
Cooling Capacity, BTUH	35,000	40,000	45,000	55,500
Compressor				
R.L. Amps	12.2	16.5	17.9	25.0
L.R. Amps	73	95	104	148
Loss of Charge Pressure Switch				
Open / Close	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG	7 PSIG/25 PSIG
Condenser Fan Motor				
Horsepower	1/4	1/4	1/4	1/6
F.L. Amps	1.6	1.6	1.6	1.1
Liquid Line, Inches O.D.	3/8"	3/8"	3/8"	3/8"
Suction Line, Inches O.D.	7/8"	7/8"	7/8"	7/8"
Refrigerant Charge	188	213	223	233
Design Subcooling Cooling (°F)	9 ± 3	9 ± 3	9 ± 3	9 ± 3
Power Supply	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
Minimum Circuit Ampacity ⁽¹⁾	16.9	22.3	24	32.3
Maximum Overcurrent Device ⁽²⁾	20	30	40	50
Electrical Conduit Size				
Power Supply (Inches)	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4
Approximate Shipping Weight	207	219	225	266

⁽¹⁾ Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

⁽²⁾ Maximum Overcurrent Protection: **Must** use fuses or HACR-type Circuit Breakers of the same size as noted.

NOTES:

* Always check the S&R plate for electrical data on the unit being installed.

* Installer will need to supply 7/8" to 1 1/8" adapters for suction line connections.

* Unit is charged with refrigerant for 15' of 3/8" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.

* Installation of these units that require a TXV Kit to be installed on the indoor coil:

PLEASE NOTE: THE SPECIFIED TXVIS DETERMINED BY THE OUTDOOR UNIT NOT THE INDOOR COIL

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130181A* / ARUF32-00*-1* / ARUF18241A*

IDB		Airflow	Outdoor Ambient Temperature																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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70	675	MBh	17.6	18.3	20.0	-	17.2	17.9	19.6	-	16.8	17.4	19.1	-	16.4	17.0	18.6	-	15.6	16.2	17.7	-	14.4	15.0	16.4	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

75	675	MBh	17.9	18.5	20.0	21.5	17.5	18.0	19.5	21.0	17.1	17.6	19.1	20.5	16.7	17.2	18.6	20.0	15.9	16.3	17.7	19.0	14.7	15.1	16.4	17.6
		S/T	0.84	0.75	0.57	0.36	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.65	0.42	0.96	0.86	0.65	0.42
		Delta T	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
		KW	1.27	1.30	1.34	1.38	1.37	1.40	1.44	1.49	1.45	1.48	1.53	1.58	1.53	1.56	1.61	1.66	1.59	1.62	1.67	1.73	1.64	1.68	1.73	1.79
		AMPS	4.8	4.9	5.1	5.3	5.2	5.3	5.5	5.7	5.7	5.8	6.0	6.2	6.0	6.2	6.4	6.6	6.4	6.6	6.8	7.0	6.8	7.0	7.2	7.5
	HI PR	138	149	157	164	155	167	177	184	177	190	201	209	201	217	229	238	226	244	257	268	250	269	284	296	
	LO PR	63	67	74	78	67	71	78	83	70	74	81	86	73	78	85	90	77	81	89	95	79	84	92	98	
	600	MBh	17.4	17.9	19.4	20.8	17.0	17.5	19.0	20.3	16.6	17.1	18.5	19.9	16.2	16.7	18.1	19.4	15.4	15.8	17.2	18.4	14.3	14.7	15.9	17.1
		S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.92	0.82	0.62	0.40
		Delta T	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	20	18	15	10
		KW	1.27	1.29	1.33	1.37	1.36	1.39	1.43	1.47	1.44	1.47	1.52	1.57	1.51	1.55	1.59	1.65	1.58	1.61	1.66	1.71	1.63	1.66	1.72	1.77
		AMPS	4.8	4.9	5.1	5.2	5.2	5.3	5.5	5.7	5.6	5.7	5.9	6.1	6.0	6.1	6.3	6.6	6.4	6.5	6.7	7.0	6.7	6.9	7.1	7.4
	HI PR	137	147	156	162	154	166	175	182	175	188	199	207	199	214	226	236	224	241	255	266	248	266	281	293	
	LO PR	63	67	73	78	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97	
	525	MBh	16.1	16.5	17.9	19.2	15.7	16.2	17.5	18.8	15.3	15.8	17.1	18.3	15.0	15.40	16.7	17.9	14.2	14.6	15.8	17.0	13.2	13.5	14.7	15.7
S/T		0.77	0.69	0.52	0.34	0.80	0.71	0.54	0.35	0.82	0.73	0.55	0.36	0.84	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.88	0.79	0.60	0.38	
Delta T		22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16	11	20	19	15	11	
KW		1.24	1.26	1.30	1.34	1.33	1.35	1.40	1.44	1.41	1.44	1.48	1.53	1.48	1.51	1.56	1.61	1.54	1.57	1.62	1.67	1.59	1.62	1.68	1.73	
AMPS		4.7	4.8	4.9	5.1	5.0	5.1	5.3	5.5	5.5	5.6	5.8	6.0	5.8	6.0	6.2	6.4	6.2	6.3	6.5	6.8	6.5	6.7	6.9	7.2	
HI PR	133	143	151	158	149	161	170	177	170	183	193	201	193	208	220	229	217	234	247	258	240	258	273	285		
LO PR	61	65	71	75	64	68	75	79	67	71	78	83	70	75	81	87	73	78	85	91	76	81	88	94		

Shaded area is ACCA (TVA) conditions
IDB: Entering Indoor Dry Bulb Temperature
KW=Total

COOLING PERFORMANCE DATA

GSH130181A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130181A* / ARUF32-00*-1* / ARUF18241A*

		Outdoor Ambient Temperature												105												115																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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IDB*	Airflow	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143	147	151	155	159	163	167	171	175	179	183	187	191	195	199	203	207	211	215	219	223	227	231	235	239	243	247	251	255	259	263	267	271	275	279	283	287	291	295	299	303	307	311	315	319	323	327	331	335	339	343	347	351	355	359	363	367	371	375	379	383	387	391	395	399	403	407	411	415	419	423	427	431	435	439	443	447	451	455	459	463	467	471	475	479	483	487	491	495	499	503	507	511	515	519	523	527	531	535	539	543	547	551	555	559	563	567	571	575	579	583	587	591	595	599	603	607	611	615	619	623	627	631	635	639	643	647	651	655	659	663	667	671	675	679	683	687	691	695	699	703	707	711	715	719	723	727	731	735	739	743	747	751	755	759	763	767	771	775	779	783	787	791	795	799	803	807	811	815	819	823	827	831	835	839	843	847	851	855	859	863	867	871	875	879	883	887	891	895	899	903	907	911	915	919	923	927	931	935	939	943	947	951	955	959	963	967	971	975	979	983	987	991	995	999	1003	1007	1011	1015	1019	1023	1027	1031	1035	1039	1043	1047	1051	1055	1059	1063	1067	1071	1075	1079	1083	1087	1091	1095	1099	1103	1107	1111	1115	1119	1123	1127	1131	1135	1139	1143	1147	1151	1155	1159	1163	1167	1171	1175	1179	1183	1187	1191	1195	1199	1203	1207	1211	1215	1219	1223	1227	1231	1235	1239	1243	1247	1251	1255	1259	1263	1267	1271	1275	1279	1283	1287	1291	1295	1299	1303	1307	1311	1315	1319	1323	1327	1331	1335	1339	1343	1347	1351	1355	1359	1363	1367	1371	1375	1379	1383	1387	1391	1395	1399	1403	1407	1411	1415	1419	1423	1427	1431	1435	1439	1443	1447	1451	1455	1459	1463	1467	1471	1475	1479	1483	1487	1491	1495	1499	1503	1507	1511	1515	1519	1523	1527	1531	1535	1539	1543	1547	1551	1555	1559	1563	1567	1571	1575	1579	1583	1587	1591	1595	1599	1603	1607	1611	1615	1619	1623	1627	1631	1635	1639	1643	1647	1651	1655	1659	1663	1667	1671	1675	1679	1683	1687	1691	1695	1699	1703	1707	1711	1715	1719	1723	1727	1731	1735	1739	1743	1747	1751	1755	1759	1763	1767	1771	1775	1779	1783	1787	1791	1795	1799	1803	1807	1811	1815	1819	1823	1827	1831	1835	1839	1843	1847	1851	1855	1859	1863	1867	1871	1875	1879	1883	1887	1891	1895	1899	1903	1907	1911	1915	1919	1923	1927	1931	1935	1939	1943	1947	1951	1955	1959	1963	1967	1971	1975	1979	1983	1987	1991	1995	1999	2003	2007	2011	2015	2019	2023	2027	2031	2035	2039	2043	2047	2051	2055	2059	2063	2067	2071	2075	2079	2083	2087	2091	2095	2099	2103	2107	2111	2115	2119	2123	2127	2131	2135	2139	2143	2147	2151	2155	2159	2163	2167	2171	2175	2179	2183	2187	2191	2195	2199	2203	2207	2211	2215	2219	2223	2227	2231	2235	2239	2243	2247	2251	2255	2259	2263	2267	2271	2275	2279	2283	2287	2291	2295	2299	2303	2307	2311	2315	2319	2323	2327	2331	2335	2339	2343	2347	2351	2355	2359	2363	2367	2371	2375	2379	2383	2387	2391	2395	2399	2403	2407	2411	2415	2419	2423	2427	2431	2435	2439	2443	2447	2451	2455	2459	2463	2467	2471	2475	2479	2483	2487	2491	2495	2499	2503	2507	2511	2515	2519	2523	2527	2531	2535	2539	2543	2547	2551	2555	2559	2563	2567	2571	2575	2579	2583	2587	2591	2595	2599	2603	2607	2611	2615	2619	2623	2627	2631	2635	2639	2643	2647	2651	2655	2659	2663	2667	2671	2675	2679	2683	2687	2691	2695	2699	2703	2707	2711	2715	2719	2723	2727	2731	2735	2739	2743	2747	2751	2755	2759	2763	2767	2771	2775	2779	2783	2787	2791	2795	2799	2803	2807	2811	2815	2819	2823	2827	2831	2835	2839	2843	2847	2851	2855	2859	2863	2867	2871	2875	2879	2883	2887	2891	2895	2899	2903	2907	2911	2915	2919	2923	2927	2931	2935	2939	2943	2947	2951	2955	2959	2963	2967	2971	2975	2979	2983	2987	2991	2995	2999	3003	3007	3011	3015	3019	3023	3027	3031	3035	3039	3043	3047	3051	3055	3059	3063	3067	3071	3075	3079	3083	3087	3091	3095	3099	3103	3107	3111	3115	3119	3123	3127	3131	3135	3139	3143	3147	3151	3155	3159	3163	3167	3171	3175	3179	3183	3187	3191	3195	3199	3203	3207	3211	3215	3219	3223	3227	3231	3235	3239	3243	3247	3251	3255	3259	3263	3267	3271	3275	3279	3283	3287	3291	3295	3299	3303	3307	3311	3315	3319	3323	3327	3331	3335	3339	3343	3347	3351	3355	3359	3363	3367	3371	3375	3379	3383	3387	3391	3395	3399	3403	3407	3411	3415	3419	3423	3427	3431	3435	3439	3443	3447	3451	3455	3459	3463	3467	3471	3475	3479	3483	3487	3491	3495	3499	3503	3507	3511	3515	3519	3523	3527	3531	3535	3539	3543	3547	3551	3555	3559	3563	3567	3571	3575	3579	3583	3587	3591	3595	3599	3603	3607	3611	3615	3619	3623	3627	3631	3635	3639	3643	3647	3651	3655	3659	3663	3667	3671	3675	3679	3683	3687	3691	3695	3699	3703	3707	3711	3715	3719	3723	3727	3731	3735	3739	3743	3747	3751	3755	3759	3763	3767	3771	3775	3779	3783	3787	3791	3795	3799	3803	3807	3811	3815	3819	3823	3827	3831	3835	3839	3843	3847	3851	3855	3859	3863	3867	3871	3875	3879	3883	3887	3891	3895	3899	3903	3907	3911	3915	3919	3923	3927	3931	3935	3939	3943	3947	3951	3955	3959	3963	3967	3971	3975	3979	3983	3987	3991	3995	3999	4003	4007	4011	4015	4019	4023	4027	4031	4035	4039	4043	4047	4051	4055	4059	4063	4067	4071	4075	4079	4083	4087	4091	4095	4099	4103	4107	4111	4115	4119	4123	4127	4131	4135	4139	4143	4147	4151	4155	4159	4163	4167	4171	4175	4179	4183	4187	4191	4195	4199	4203	4207	4211	4215	4219	4223	4227	4231	4235	4239	4243	4247	4251	4255	4259	4263	4267	4271	4275	4279	4283	4287	4291	4295	4299	4303	4307	4311	4315	4319	4323	4327	4331	4335	4339	4343	4347	4351	4355	4359	4363	4367	4371	4375	4379	4383	4387	4391	4395	4399	4403	4407	4411	4415	4419	4423	4427	4431	4435	4439	4443	4447	4451	4455	4459	4463	4467	4471	4475	4479	4483	4487	4491	4495	4499	4503	4507	4511	4515	4519	4523	4527	4531	4535	4539	4543	4547	4551	4555	4559	4563	4567	4571	4575	4579	4583	4587	4591	4595	4599	4603	4607	4611	4615	4619	4623	4627	4631	4635	4639	4643	4647	4651	4655	4659	4663	4667	4671	4675	4679	4683	4687	4691	4695	4699	4703	4707	4711	4715	4719	4723	4727	4731	4735	4739	4743	4747	4751	4755	4759	4763	4767	4771	4775	4779	4783	4787	4791	4795	4799	4803	4807	4811	4815	4819	4823	4827	4831	4835	4839	4843	4847	4851	4855	4859	4863	4867	4871	4875	4879	4883	4887	4891	4895	4899	4903	4907	4911	4915	4919	4923	4927	4931	4935	4939	4943	4947	4951	4955	4959	4963	4967	4971	4975	4979	4983	4987	4991	4995	4999	5003	5007	5011	5015	5019	5023	5027	5031	5035	5039	5043	5047	5051	5055	5059	5063	5067	5071	5075	5079	5083	5087	5091	5095	5099	5103	5107	5111	5115	5119	5123	5127	5131	5135	5139	5143	5147	5151	5155	5159	5163	5167	5171	5175	5179	5183	5187	5191	5195	5199	5203	5207	5211	5215	5219	5223	5227	5231	5235	5239	5243	5247	5251	5255	5259	5263	5267	5271	5275	5279	5283	5287	5291	5295	5299	5303	5307	5311	5315	5319	5323	5327	5331	5335	5339	5343	5347	5351	5355	5359

COOLING PERFORMANCE DATA

GSH130181B*

EXPANDED PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130181B* / AR*F182416** Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

			65										75										85										95										105										115									
			Outdoor Ambient Temperature																																																											
IDB	Airflow	Entering Indoor Wet Bulb Temperature																																																												
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																													
70	731	MBh	17.6	18.3	20.0	-	17.2	17.9	19.6	-	16.8	17.4	19.1	-	16.4	17.0	18.6	-	15.6	16.2	17.7	-	14.4	15.0	16.4	-	13.0	13.6	15.1	-	12.6	13.2	14.7	-	11.2	11.8	13.3	-																								
		ST	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-	0.84	0.71	0.50	-	0.85	0.72	0.51	-	0.86	0.73	0.52	-																								
		Delta T	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	10	-	15	13	10	-	14	12	9	-	13	11	8	-																								
		KW	1.24	1.26	1.30	-	1.33	1.35	1.40	-	1.41	1.43	1.48	-	1.48	1.51	1.55	-	1.53	1.57	1.61	-	1.58	1.62	1.67	-	1.57	1.61	1.66	-	1.56	1.60	1.65	-	1.55	1.59	1.64	-																								
		AMPS	4.7	4.8	4.9	-	5.0	5.1	5.3	-	5.4	5.6	5.8	-	5.8	5.9	6.1	-	6.2	6.3	6.5	-	6.5	6.7	6.9	-	6.5	6.7	6.9	-	6.4	6.6	6.8	-	6.3	6.5	6.7	-																								
		LO PR	135	146	154	-	152	164	173	-	173	186	196	-	197	212	224	-	221	238	252	-	245	263	278	-	245	263	278	-	244	262	277	-	243	261	276	-																								
650	731	MBh	17.1	17.7	19.4	-	16.7	17.3	19.0	-	16.3	16.9	18.5	-	15.9	16.5	18.1	-	15.1	15.7	17.2	-	14.0	14.5	15.9	-	12.9	13.4	14.7	-	11.9	12.4	13.7	-	10.9	11.4	12.7	-																								
		ST	0.69	0.58	0.40	-	0.71	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.79	0.66	0.46	-	0.79	0.66	0.46	-	0.78	0.65	0.44	-	0.77	0.64	0.43	-																								
		Delta T	17	14	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-	15	13	10	-	14	12	9	-	13	11	8	-																								
		KW	1.23	1.25	1.29	-	1.32	1.34	1.38	-	1.40	1.42	1.47	-	1.46	1.49	1.54	-	1.52	1.55	1.60	-	1.57	1.61	1.66	-	1.56	1.60	1.65	-	1.55	1.59	1.64	-	1.54	1.58	1.63	-																								
		AMPS	4.6	4.7	4.9	-	5.0	5.1	5.3	-	5.4	5.5	5.7	-	5.8	5.9	6.1	-	6.1	6.3	6.5	-	6.5	6.6	6.9	-	6.5	6.6	6.9	-	6.4	6.6	6.8	-	6.3	6.5	6.7	-																								
		LO PR	134	144	152	-	150	162	171	-	171	184	194	-	195	210	221	-	219	236	249	-	242	261	275	-	242	261	275	-	241	259	274	-	240	258	273	-																								
569	731	MBh	15.8	16.4	17.9	-	15.4	16.0	17.5	-	15.1	15.6	17.1	-	14.7	15.2	16.7	-	14.0	14.5	15.9	-	12.9	13.4	14.7	-	11.9	12.4	13.7	-	11.9	12.4	13.7	-	10.9	11.4	12.7	-																								
		ST	0.67	0.56	0.38	-	0.69	0.58	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.76	0.63	0.44	-	0.76	0.63	0.44	-	0.75	0.62	0.43	-	0.74	0.61	0.42	-																								
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-	15	13	10	-	14	12	9	-	13	11	8	-																								
		KW	1.20	1.23	1.26	-	1.29	1.31	1.35	-	1.36	1.39	1.43	-	1.43	1.46	1.50	-	1.49	1.52	1.56	-	1.53	1.57	1.62	-	1.52	1.56	1.61	-	1.51	1.55	1.60	-	1.50	1.54	1.59	-																								
		AMPS	4.5	4.6	4.7	-	4.8	5.0	5.1	-	5.3	5.4	5.6	-	5.6	5.7	5.9	-	6.0	6.1	6.3	-	6.3	6.5	6.7	-	6.3	6.5	6.7	-	6.2	6.4	6.6	-	6.1	6.3	6.5	-																								
		LO PR	130	140	148	-	146	157	166	-	166	179	189	-	189	203	215	-	213	229	242	-	235	253	267	-	235	253	267	-	234	252	266	-	233	251	265	-																								

75	731	MBh	17.9	18.5	20.0	21.5	17.5	18.0	19.5	21.0	17.1	17.6	19.1	20.5	16.7	17.2	18.6	20.0	15.9	16.3	17.7	19.0	14.7	15.1	16.4	17.6
		ST	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.94	0.84	0.64	0.41
		Delta T	19	17	14	10	19	17	14	10	19	17	14	10	19	17	14	10	19	17	14	10	17	16	13	9
		KW	1.25	1.27	1.31	1.35	1.34	1.37	1.41	1.45	1.42	1.45	1.49	1.54	1.49	1.52	1.56	1.61	1.55	1.58	1.63	1.68	1.60	1.63	1.68	1.74
		AMPS	4.7	4.8	5.0	5.1	5.1	5.2	5.4	5.5	5.5	5.6	5.8	6.0	5.9	6.0	6.2	6.4	6.2	6.4	6.6	6.8	6.6	6.8	7.0	7.2
		HiPR	137	147	155	162	154	165	174	182	175	188	198	207	199	214	226	236	224	241	254	265	247	266	281	293
		LO PR	63	67	74	78	67	71	78	83	70	74	81	86	73	78	85	91	77	82	89	95	79	84	92	98
75	660	MBh	17.4	17.9	19.4	20.8	17.0	17.5	19.0	20.3	16.6	17.1	18.5	19.9	16.2	16.7	18.1	19.4	15.4	15.8	17.2	18.4	14.3	14.7	15.9	17.1
		ST	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39
		Delta T	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	19	18	15	10	18	17	14	9
		KW	1.24	1.26	1.30	1.34	1.33	1.35	1.40	1.44	1.41	1.44	1.48	1.53	1.48	1.51	1.55	1.60	1.53	1.57	1.62	1.67	1.58	1.62	1.67	1.72
		AMPS	4.7	4.8	4.9	5.1	5.0	5.1	5.3	5.5	5.4	5.6	5.8	6.0	5.8	5.9	6.1	6.4	6.2	6.3	6.5	6.8	6.5	6.7	6.9	7.2
		HiPR	135	146	154	161	152	164	173	180	173	186	196	205	197	212	224	233	222	238	252	263	245	263	278	290
		LO PR	63	67	73	78	66	71	77	82	69	73	80	85	72	77	84	90	76	81	88	94	79	84	91	97
75	569	MBh	16.1	16.5	17.9	19.2	15.7	16.2	17.5	18.8	15.3	15.8	17.1	18.3	15.0	15.40	16.7	17.9	14.2	14.6	15.8	17.0	13.2	13.5	14.7	15.7
		ST	0.76	0.68	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.87	0.78	0.59	0.38
		Delta T	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	18	17	14	10
		KW	1.21	1.24	1.27	1.31	1.30	1.32	1.36	1.40	1.37	1.40	1.44	1.49	1.44	1.47	1.52	1.56	1.50	1.53	1.58	1.63	1.55	1.58	1.63	1.68
		AMPS	4.5	4.6	4.8	5.0	4.9	5.0	5.2	5.4	5.3	5.4	5.6	5.8	5.7	5.8	6.0	6.2	6.0	6.2	6.4	6.6	6.4	6.5	6.7	7.0
		HiPR	131	141	149	156	147	159	168	175	168	180	191	199	191	206	217	226	215	231	244	255	237	255	270	281
		LO PR	61	65	71	75	64	68	75	80	67	71	78	83	70	75	82	87	74	78	86	91	76	81	88	94

COOLING PERFORMANCE DATA

GSH130181B*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130181B* / AR*F182416**

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

			Outdoor Ambient Temperature										105					115																
			65					75					85					95																
IDB*	Airflow	Entering Indoor Wet Bulb Temperature																																
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71					
80	731	MBh	18.3	18.7	19.9	21.3	17.8	18.2	19.5	20.8	17.4	17.8	19.0	20.3	17.0	17.4	18.5	19.8	16.1	16.5	17.6	18.8	14.9	15.3	16.3	17.4	16.1	16.5	17.6	18.8	14.9	15.3	16.3	17.4
		ST	0.90	0.85	0.69	0.51	0.93	0.88	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.75	0.56	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59
		Delta T	21	20	17	14	21	20	17	14	21	20	17	14	21	20	18	14	20	20	17	14	19	19	16	13	20	20	17	14	19	19	16	13
		KW	1.26	1.28	1.32	1.36	1.35	1.38	1.42	1.46	1.43	1.46	1.50	1.55	1.50	1.53	1.58	1.63	1.56	1.59	1.64	1.69	1.61	1.64	1.70	1.75	1.56	1.59	1.64	1.69	1.61	1.64	1.70	1.75
		AMPS	4.7	4.9	5.0	5.2	5.1	5.2	5.4	5.6	5.5	5.7	5.9	6.1	5.9	6.1	6.3	6.5	6.3	6.4	6.7	6.9	6.7	6.8	7.0	7.3	6.3	6.4	6.7	6.9	6.7	6.8	7.0	7.3
		HI PR	138	149	157	164	155	167	176	184	176	190	200	209	201	216	228	238	226	243	257	268	250	269	284	296	226	243	257	268	250	269	284	296
		LO PR	64	68	74	79	68	72	79	84	70	75	82	87	74	79	86	91	77	82	90	96	80	85	93	99	77	82	90	96	80	85	93	99
650	MBh	17.7	18.1	19.4	20.7	17.3	17.7	18.9	20.2	16.9	17.3	18.5	19.7	16.5	16.8	18.0	19.2	15.7	16.0	17.1	18.3	14.5	14.8	15.8	16.9	15.7	16.0	17.1	18.3	14.5	14.8	15.8	16.9	
	ST	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56	
	Delta T	22	21	18	14	22	21	18	15	22	21	18	15	22	21	18	15	22	21	18	14	20	19	17	13	22	21	18	14	20	19	17	13	
	KW	1.25	1.27	1.31	1.35	1.34	1.37	1.41	1.45	1.42	1.45	1.49	1.54	1.49	1.52	1.57	1.61	1.55	1.58	1.63	1.68	1.60	1.63	1.68	1.74	1.55	1.58	1.63	1.68	1.60	1.63	1.68	1.74	
	AMPS	4.7	4.8	5.0	5.1	5.1	5.2	5.4	5.5	5.5	5.6	5.8	6.0	5.9	6.0	6.2	6.4	6.2	6.4	6.6	6.8	6.6	6.8	7.0	7.2	6.2	6.4	6.6	6.8	6.6	6.8	7.0	7.2	
	HI PR	137	147	155	162	154	165	174	182	175	188	198	207	199	214	226	236	224	241	254	265	247	266	281	293	224	241	254	265	247	266	281	293	
	LO PR	63	68	74	78	67	71	78	83	70	74	81	86	73	78	85	91	77	82	89	95	79	84	92	98	77	82	89	95	79	84	92	98	
569	MBh	16.4	16.7	17.9	19.1	16.0	16.3	17.4	18.6	15.6	15.9	17.0	18.2	15.2	15.6	16.6	17.8	14.5	14.8	15.8	16.9	13.4	13.7	14.6	15.6	14.5	14.8	15.8	16.9	13.4	13.7	14.6	15.6	
	ST	0.83	0.78	0.63	0.47	0.86	0.81	0.66	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.89	0.72	0.54	0.95	0.89	0.73	0.54	0.94	0.89	0.72	0.54	0.95	0.89	0.73	0.54	
	Delta T	22	21	18	15	22	21	18	15	22	21	19	15	22	21	19	15	22	21	18	15	21	20	17	14	22	21	18	15	21	20	17	14	
	KW	1.22	1.24	1.28	1.32	1.31	1.33	1.37	1.42	1.38	1.41	1.46	1.50	1.45	1.48	1.53	1.58	1.51	1.54	1.59	1.64	1.56	1.59	1.64	1.69	1.51	1.54	1.59	1.64	1.56	1.59	1.64	1.69	
	AMPS	4.6	4.7	4.8	5.0	4.9	5.1	5.2	5.4	5.3	5.5	5.7	5.9	5.7	5.8	6.0	6.3	6.1	6.2	6.4	6.7	6.4	6.6	6.8	7.0	6.1	6.2	6.4	6.7	6.4	6.6	6.8	7.0	
	HI PR	133	143	151	157	149	160	169	177	169	182	192	201	193	208	219	229	217	234	247	257	240	258	272	284	217	234	247	257	240	258	272	284	
	LO PR	62	65	71	76	65	69	76	80	68	72	78	84	71	76	82	88	74	79	86	92	77	82	89	95	77	82	89	92	77	82	89	95	

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL : GSH130191A* / AWUF18XX1A*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

		65					75					85					95					105					115						
IDB	Airflow	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75		
70	675	MBh	17.6	18.3	20.0	-	17.2	17.9	19.6	-	16.8	17.4	19.1	-	16.4	17.0	18.6	-	15.6	16.2	17.7	-	14.4	15.0	16.4	-	14.4	15.0	16.4	-	14.4	15.0	16.4
		S/T	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.86	0.71	0.50	-	0.86	0.72	0.50	-	0.86	0.72	0.50	-	0.86	0.72	0.50
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-	17	15	11
		KW	1.25	1.27	1.31	-	1.33	1.36	1.40	-	1.41	1.44	1.48	-	1.47	1.50	1.55	-	1.53	1.56	1.61	-	1.58	1.61	1.66	-	1.58	1.61	1.66	-	1.58	1.61	1.66
		AMPS	4.0	4.1	4.2	-	4.3	4.4	4.5	-	4.6	4.7	4.9	-	4.9	5.0	5.2	-	5.2	5.3	5.4	-	5.4	5.6	5.7	-	5.4	5.6	5.7	-	5.4	5.6	5.7
	HI PR	136	146	155	-	153	164	173	-	174	187	197	-	198	213	225	-	222	239	253	-	246	264	279	-	246	264	279	-	246	264	279	
	LO PR	61	65	71	-	65	69	75	-	67	71	78	-	70	75	82	-	74	79	86	-	76	81	89	-	76	81	89	-	76	81	89	
	600	MBh	17.1	17.7	19.4	-	16.7	17.3	19.0	-	16.3	16.9	18.5	-	15.9	16.5	18.1	-	15.1	15.7	17.2	-	14.0	14.5	15.9	-	14.0	14.5	15.9	-	14.0	14.5	15.9
		S/T	0.72	0.60	0.41	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.82	0.69	0.48	-	0.82	0.69	0.48	-	0.82	0.69	0.48
		Delta T	19	16	12	-	19	16	13	-	19	17	13	-	19	17	13	-	19	16	12	-	18	15	12	-	18	15	12	-	18	15	12
		KW	1.24	1.26	1.30	-	1.32	1.35	1.39	-	1.40	1.43	1.47	-	1.46	1.49	1.54	-	1.52	1.55	1.60	-	1.57	1.60	1.65	-	1.57	1.60	1.65	-	1.57	1.60	1.65
		AMPS	4.0	4.1	4.2	-	4.3	4.4	4.5	-	4.6	4.7	4.8	-	4.9	5.0	5.1	-	5.1	5.2	5.4	-	5.4	5.5	5.7	-	5.4	5.5	5.7	-	5.4	5.5	5.7
	HI PR	135	145	153	-	151	163	172	-	172	185	195	-	196	211	222	-	220	237	250	-	243	262	277	-	243	262	277	-	243	262	277	
	LO PR	61	64	70	-	64	68	74	-	66	71	77	-	70	74	81	-	73	78	85	-	76	80	88	-	76	80	88	-	76	80	88	
	525	MBh	15.8	16.4	17.9	-	15.4	16.0	17.5	-	15.1	15.6	17.1	-	14.7	15.2	16.7	-	14.0	14.5	15.9	-	12.9	13.4	14.7	-	12.9	13.4	14.7	-	12.9	13.4	14.7
		S/T	0.69	0.58	0.40	-	0.72	0.60	0.41	-	0.73	0.61	0.43	-	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.79	0.66	0.46	-	0.79	0.66	0.46	-	0.79	0.66	0.46
		Delta T	19	17	13	-	19	17	13	-	19	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-	18	16	12	-	18	16	12
		KW	1.22	1.24	1.27	-	1.30	1.32	1.36	-	1.37	1.39	1.43	-	1.43	1.46	1.50	-	1.48	1.51	1.56	-	1.53	1.56	1.61	-	1.53	1.56	1.61	-	1.53	1.56	1.61
		AMPS	3.9	4.0	4.1	-	4.2	4.3	4.4	-	4.5	4.6	4.7	-	4.7	4.8	5.0	-	5.0	5.1	5.3	-	5.3	5.4	5.5	-	5.3	5.4	5.5	-	5.3	5.4	5.5
	HI PR	131	141	148	-	147	158	167	-	167	179	189	-	190	204	216	-	214	230	243	-	236	254	268	-	236	254	268	-	236	254	268	
	LO PR	59	62	68	-	62	66	72	-	64	69	75	-	68	72	79	-	71	75	82	-	73	78	85	-	73	78	85	-	73	78	85	

		675																600																525															
75	MBh	17.94	18.47	19.99	21.45	17.52	18.04	19.53	20.96	17.10	17.61	19.06	20.46	16.69	17.18	18.60	19.96	15.85	16.32	17.67	18.96	14.68	15.12	16.36	17.56																								
	S/T	0.85	0.76	0.58	0.37	0.89	0.79	0.60	0.39	0.91	0.81	0.61	0.40	0.94	0.84	0.63	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.66	0.43																								
	Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	21	19	16	11	20	18	15	10																								
	KW	1.26	1.28	1.32	1.36	1.34	1.37	1.41	1.45	1.42	1.45	1.49	1.53	1.49	1.52	1.56	1.61	1.54	1.57	1.62	1.67	1.59	1.62	1.67	1.72																								
	AMPS	4.1	4.1	4.3	4.4	4.3	4.4	4.6	4.7	4.7	4.8	4.9	5.1	4.9	5.0	5.2	5.4	5.2	5.3	5.5	5.7	5.5	5.6	5.8	6.0																								
	HI PR	137	148	156	163	154	166	175	183	175	189	199	208	200	215	227	237	225	242	255	266	248	267	282	294																								
	LO PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	79	87	92	77	82	90	95																								
75	MBh	17.4	17.9	19.4	20.8	17.0	17.5	19.0	20.3	16.6	17.1	18.5	19.9	16.2	16.7	18.1	19.4	15.4	15.8	17.2	18.4	14.3	14.7	15.9	17.1																								
	S/T	0.82	0.73	0.55	0.35	0.84	0.76	0.57	0.37	0.87	0.77	0.59	0.38	0.89	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.94	0.84	0.63	0.41																								
	Delta T	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	17	11	20	19	15	11																								
	KW	1.25	1.27	1.31	1.35	1.33	1.36	1.40	1.44	1.41	1.44	1.48	1.52	1.47	1.50	1.55	1.60	1.53	1.56	1.61	1.66	1.58	1.61	1.66	1.71																								
	AMPS	4.0	4.1	4.2	4.4	4.3	4.4	4.5	4.7	4.6	4.7	4.9	5.0	4.9	5.0	5.2	5.3	5.2	5.3	5.4	5.6	5.5	5.6	5.7	5.9																								
	HI PR	136	146	155	161	153	164	173	181	174	187	197	206	198	213	225	234	222	239	253	264	246	265	279	291																								
	LO PR	61	65	71	76	65	69	75	80	67	71	78	83	71	75	82	87	74	79	86	91	76	81	89	95																								
75	MBh	16.1	16.5	17.9	19.2	15.7	16.2	17.5	18.8	15.3	15.8	17.1	18.3	15.0	15.40	16.7	17.9	14.2	14.6	15.8	17.0	13.2	13.5	14.7	15.7																								
	S/T	0.79	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.38	0.89	0.80	0.61	0.39	0.90	0.81	0.61	0.39																								
	Delta T	22	20	17	12	22	21	17	12	22	21	17	12	23	21	17	12	22	20	17	12	21	19	16	11																								
	KW	1.22	1.25	1.28	1.32	1.31	1.33	1.37	1.41	1.38	1.40	1.45	1.49	1.44	1.47	1.51	1.56	1.50	1.53	1.57	1.62	1.54	1.57	1.62	1.67																								
	AMPS	3.9	4.0	4.1	4.3	4.2	4.3	4.4	4.5	4.5	4.6	4.7	4.9	4.8	4.9	5.0	5.2	5.0	5.2	5.3	5.5	5.3	5.4	5.6	5.8																								
	HI PR	132	142	150	156	148	159	168	176	168	181	191	200	192	206	218	227	216	232	245	256	238	257	271	283																								
	LO PR	59	63	69	73	63	67	73	77	65	69	76	81	68	73	79	85	72	76	83	89	74	79	86	92																								

COOLING PERFORMANCE DATA

GSH130191A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL : GSH130191A* / AWUF18XX1A*														Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions																																									
														Outdoor Ambient Temperature																																									
														65							75							85							95							105							115						
														Entering Indoor Wet Bulb Temperature																																									
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																						
80	675	MBh	18.3	18.7	19.9	21.3	17.8	18.2	19.5	20.8	17.4	17.8	19.0	20.3	17.0	17.4	18.5	19.8	16.1	16.5	17.6	18.8	14.9	15.3	16.3	17.4	14.9	15.3	16.3	17.4	14.9	15.3	16.3	17.4																					
		S/T	0.94	0.88	0.72	0.53	1.00	0.91	0.74	0.55	1.00	0.93	0.76	0.57	1.00	0.96	0.78	0.59	1.00	1.00	0.81	0.61	1.00	1.00	0.82	0.61	1.00	1.00	0.82	0.61	1.00	1.00	0.82	0.61																					
		Delta T	23	22	19	16	24	23	20	16	24	23	20	16	23	23	20	16	22	22	20	16	20	21	18	15	20	21	18	15	20	21	18	15																					
		KW	1.27	1.29	1.33	1.37	1.35	1.38	1.42	1.46	1.43	1.46	1.50	1.55	1.50	1.53	1.57	1.62	1.55	1.59	1.63	1.68	1.60	1.64	1.69	1.74	1.60	1.64	1.69	1.74	1.60	1.64	1.69	1.74																					
		AMPS	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.7	4.7	4.8	4.9	5.1	5.0	5.1	5.2	5.4	5.3	5.4	5.5	5.7	5.5	5.7	5.8	6.0	5.5	5.7	5.8	6.0	5.5	5.7	5.8	6.0																					
	600	HI PR	139	149	158	165	156	168	177	185	177	191	201	210	202	217	229	239	227	244	258	269	251	270	285	297	251	270	285	297	251	270	285	297																					
		LO PR	62	66	72	77	66	70	77	81	68	73	80	85	72	77	84	89	75	80	88	93	78	83	91	96	78	83	91	96	78	83	91	96																					
		MBh	17.7	18.1	19.4	20.7	17.3	17.7	18.9	20.2	16.9	17.3	18.5	19.7	16.5	16.8	18.0	19.2	15.7	16.0	17.1	18.3	14.5	14.8	15.8	16.9	14.5	14.8	15.8	16.9	14.5	14.8	15.8	16.9																					
		S/T	0.89	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.95	0.89	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	0.96	0.78	0.59	1.00	0.96	0.78	0.59	1.00	0.96	0.78	0.59																					
		Delta T	24	23	20	16	25	24	20	16	25	24	21	16	25	24	21	16	24	23	20	16	22	22	19	15	22	22	19	15	22	22	19	15																					
85	675	KW	1.26	1.28	1.32	1.36	1.34	1.37	1.41	1.45	1.42	1.45	1.49	1.53	1.49	1.52	1.56	1.61	1.54	1.57	1.62	1.67	1.59	1.62	1.67	1.72	1.59	1.62	1.67	1.72	1.59	1.62	1.67	1.72																					
		AMPS	4.1	4.1	4.3	4.4	4.3	4.4	4.6	4.7	4.7	4.8	4.9	5.1	4.9	5.0	5.2	5.4	5.2	5.3	5.5	5.7	5.5	5.6	5.8	6.0	5.5	5.6	5.8	6.0	5.5	5.6	5.8	6.0																					
		HI PR	137	148	156	163	154	166	175	183	175	189	199	208	200	215	227	237	225	242	255	266	248	267	282	294	248	267	282	294	248	267	282	294																					
		LO PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	79	87	92	77	82	90	95	77	82	90	95	77	82	90	95																					
		MBh	16.4	16.7	17.9	19.1	16.0	16.3	17.4	18.6	15.6	15.9	17.0	18.2	15.2	15.6	16.6	17.8	14.5	14.8	15.8	16.9	13.4	13.7	14.6	15.6	13.4	13.7	14.6	15.6	13.4	13.7	14.6	15.6																					
	525	S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.92	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.76	0.56	0.99	0.93	0.76	0.56	0.99	0.93	0.76	0.56																					
		Delta T	25	24	21	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	22	19	15	23	22	19	15	23	22	19	15																					
		KW	1.23	1.25	1.29	1.33	1.31	1.34	1.38	1.42	1.39	1.41	1.46	1.50	1.45	1.48	1.52	1.57	1.51	1.54	1.58	1.63	1.55	1.59	1.63	1.68	1.55	1.59	1.63	1.68	1.55	1.59	1.63	1.68																					
		AMPS	4.0	4.0	4.2	4.3	4.2	4.3	4.4	4.6	4.5	4.6	4.8	4.9	4.8	4.9	5.1	5.2	5.1	5.2	5.4	5.5	5.4	5.5	5.6	5.8	5.4	5.5	5.6	5.8	5.4	5.5	5.6	5.8																					
		HI PR	133	143	151	158	150	161	170	177	170	183	193	202	194	209	220	230	218	235	248	258	241	259	274	285	241	259	274	285	241	259	274	285																					
LO PR	60	64	70	74	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	90	75	80	87	93	75	80	87	93	75	80	87	93																							
85	675	MBh	18.6	18.9	19.8	21.2	18.1	18.5	19.4	20.7	17.7	18.1	18.9	20.2	17.3	17.6	18.4	19.7	16.4	16.7	17.5	18.7	15.2	15.5	16.2	17.3	15.2	15.5	16.2	17.3	15.2	15.5	16.2	17.3																					
		S/T	0.98	0.95	0.86	0.69	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.80	1.00	1.00	0.98	0.80	1.00	1.00	0.98	0.80																					
		Delta T	25	24	23	20	25	25	23	20	24	25	23	20	24	24	24	20	22	23	23	20	21	21	22	19	21	21	22	19	21	21	22	19																					
		KW	1.28	1.30	1.34	1.38	1.36	1.39	1.43	1.47	1.44	1.47	1.51	1.56	1.51	1.54	1.58	1.63	1.57	1.60	1.65	1.70	1.62	1.65	1.70	1.75	1.62	1.65	1.70	1.75	1.62	1.65	1.70	1.75																					
		AMPS	4.1	4.2	4.3	4.5	4.4	4.5	4.6	4.8	4.7	4.8	5.0	5.1	5.0	5.1	5.3	5.5	5.3	5.4	5.6	5.8	5.6	5.7	5.9	6.1	5.6	5.7	5.9	6.1	5.6	5.7	5.9	6.1																					
	600	HI PR	140	151	159	166	157	169	179	186	179	193	203	212	204	219	232	242	229	247	260	272	253	273	288	300	253	273	288	300	253	273	288	300																					
		LO PR	63	67	73	78	67	71	77	82	69	74	80	86	73	77	84	90	76	81	88	94	79	84	91	97	79	84	91	97	79	84	91	97																					
		MBh	18.0	18.4	19.3	20.5	17.6	18.0	18.8	20.1	17.2	17.5	18.4	19.6	16.8	17.1	17.9	19.1	15.9	16.2	17.0	18.2	14.8	15.0	15.8	16.8	14.8	15.0	15.8	16.8	14.8	15.0	15.8	16.8																					
		S/T	0.94	0.90	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.96	0.87	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.94	0.76	1.00	1.00	0.94	0.76	1.00	1.00	0.94	0.76																					
		Delta T	26	25	24	21	26	26	24	21	26	26	24	21	26	26	25	21	24	25	24	21	23	23	23	20	23	23	23	20	23	23	20	23																					
525	KW	1.27	1.29	1.33	1.37	1.35	1.38	1.42	1.46	1.43	1.46	1.50	1.55	1.50	1.53	1.57	1.62	1.55	1.59	1.63	1.68	1.60	1.64	1.69	1.74	1.60	1.64	1.69	1.74	1.60	1.64	1.69	1.74																						
	AMPS	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.7	4.7	4.8	4.9	5.1	5.0	5.1	5.2	5.4	5.3	5.4	5.5	5.7	5.5	5.7	5.8	6.0	5.5	5.7	5.8	6.0	5.5	5.7	5.8	6.0																						
	HI PR	139	149	158	165	156	168	177	185	177	191	201	210	202	217	229	239	227	244	258	269	251	270	285	297	251	270	285	297	251	270	285	297																						
	LO PR	62	66	72	77	66	70	77	81	68	73	80	85	72	77	84	89	75	80	88	93	78	83	91	96	78	83	91	96	78	83	91	96																						
	MBh	16.6	17.0	17.8	19.0	16.3	16.6	17.4	18.5	15.9	16.2	16.9	18.1	15.5	15.8	16.5	17.6	14.7	15.0	15.7	16.8	13.6	13.9	14.5	15.5	13.6	13.9	14.5	15.5	13.6	13.9	14.5	15.5																						
85	675	S/T	0.90	0.87	0.79	0.64	0.94	0.90	0.82	0.66	0.96	0.93	0.84	0.88	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.90	0.73	1.00	1.00	0.90	0.73	1.00	1.00	0.90	0.73																					
		Delta T	26	26	24	21	27	26	25	21	27	26	25	21	27	26	25	22	26	26	25	21	24	24	23	20	24	24	23	20	24	24	23	20																					
		KW	1.24	1.26	1.30	1.34	1.32	1.35	1.39	1.43	1.40	1.43	1.47	1.51	1.46	1.49	1.54	1.58	1.52	1.55	1.60	1.64	1.57	1.60	1.65	1.70	1.57	1.60	1.65	1.70	1.57	1.60	1.65	1.70																					
		AMPS	4.0	4.1	4.2	4.3	4.3	4.4	4.5	4.6	4.6	4.7	4.8	5.0	4.9	5.0	5.1	5.3	5.1	5.2	5.4	5.6	5.4	5.5	5.7	5.9	5.4	5.5	5.7	5.9	5.4	5.5	5.7	5.9																					
		HI PR	135	145	153	160	151	163	172	179	172	185	195	204	196	211	222	232	220	237	250	261	243	262	276	288	243	262	276	288	243	262	276	288																					
	LO PR	60	64	70	75	64	68	74																																															

COOLING OPERATION

EXPANDED PERFORMANCE DATA

MODEL: GSH13024-1A* / ARUF32-00*1* / ARUF18241A*

IDB	Airflow	Outdoor Ambient Temperature																																															
		65								75								85								95								105								115							
		Entering Indoor Wet Bulb Temperature																																															
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																
923	MBh	22.5	23.4	25.6	-	22.0	22.8	25.0	-	21.5	22.3	24.4	-	21.0	21.7	23.8	-	19.9	20.6	22.6	-	18.4	19.1	21.0	-																								
	S/T	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-																								
	Delta T	17	14	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-																								
	KW	1.64	1.67	1.72	-	1.76	1.79	1.85	-	1.86	1.90	1.96	-	1.96	2.00	2.06	-	2.04	2.08	2.15	-	2.10	2.15	2.22	-																								
	AMPS	6.1	6.3	6.5	-	6.6	6.8	7.0	-	7.2	7.4	7.6	-	7.7	7.9	8.1	-	8.2	8.4	8.6	-	8.6	8.8	9.1	-																								
	HIPR	137	148	156	-	154	166	175	-	175	189	199	-	200	215	227	-	224	242	255	-	248	267	282	-																								
	LOPR	61	65	71	-	64	69	75	-	67	71	78	-	70	75	82	-	74	78	86	-	76	81	89	-																								
820	MBh	21.9	22.7	24.8	-	21.4	22.2	24.3	-	20.9	21.6	23.7	-	20.4	21.1	23.1	-	19.3	20.0	22.0	-	17.9	18.6	20.3	-																								
	S/T	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.81	0.68	0.47	-																								
	Delta T	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-																								
	KW	1.62	1.66	1.71	-	1.74	1.78	1.83	-	1.85	1.89	1.95	-	1.94	1.98	2.04	-	2.02	2.06	2.13	-	2.09	2.13	2.20	-																								
	AMPS	6.1	6.2	6.4	-	6.6	6.7	6.9	-	7.1	7.3	7.5	-	7.6	7.8	8.0	-	8.1	8.3	8.6	-	8.6	8.8	9.1	-																								
	HIPR	136	146	154	-	153	164	173	-	173	187	197	-	198	213	224	-	222	239	253	-	246	264	279	-																								
	LOPR	60	64	70	-	64	68	74	-	66	71	77	-	70	74	81	-	73	78	85	-	75	80	88	-																								
718	MBh	20.2	20.9	22.9	-	19.7	20.4	22.4	-	19.3	20.0	21.9	-	18.8	19.5	21.3	-	17.8	18.5	20.3	-	16.5	17.1	18.8	-																								
	S/T	0.68	0.57	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.78	0.65	0.45	-																								
	Delta T	18	15	12	-	18	15	12	-	18	15	12	-	18	16	12	-	18	15	12	-	17	14	11	-																								
	KW	1.59	1.62	1.67	-	1.70	1.74	1.79	-	1.80	1.84	1.90	-	1.89	1.93	2.00	-	1.97	2.01	2.08	-	2.04	2.08	2.15	-																								
	AMPS	5.9	6.1	6.2	-	6.4	6.5	6.7	-	6.9	7.1	7.3	-	7.4	7.6	7.8	-	7.9	8.1	8.3	-	8.3	8.5	8.8	-																								
	HIPR	132	142	150	-	148	159	168	-	168	181	191	-	192	206	218	-	216	232	245	-	238	256	271	-																								
	LOPR	59	62	68	-	62	66	72	-	64	68	75	-	68	72	78	-	71	75	82	-	73	78	85	-																								

GSH130241A*

75	923	MBh	22.92	23.60	25.54	27.41	22.39	23.05	24.95	26.78	21.85	22.50	24.36	26.14	21.32	21.95	23.76	25.50	20.25	20.85	22.57	24.23	18.76	19.32	20.91	22.44
		S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.42
		Delta T	19	18	15	10	20	18	15	10	20	18	15	10	19	18	15	10	19	18	15	10	18	17	14	9
		KW	1.65	1.68	1.73	1.79	1.77	1.81	1.86	1.92	1.88	1.92	1.98	2.04	1.97	2.01	2.08	2.15	2.05	2.10	2.16	2.24	2.12	2.17	2.24	2.31
		AMPS	6.2	6.3	6.5	6.8	6.7	6.8	7.1	7.3	7.2	7.4	7.7	7.9	7.7	7.9	8.2	8.5	8.2	8.4	8.7	9.0	8.7	8.9	9.2	9.6
		HIPR	139	149	158	164	156	167	177	184	177	190	201	210	202	217	229	239	227	244	258	269	251	270	285	297
		LOPR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	74	79	86	92	77	82	89	95
		MBh	22.3	22.9	24.8	26.6	21.7	22.4	24.2	26.0	21.2	21.8	23.6	25.4	20.7	21.3	23.1	24.8	19.7	20.2	21.9	23.5	18.2	18.8	20.3	21.8
		S/T	0.80	0.72	0.54	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.92	0.82	0.62	0.40	0.92	0.83	0.63	0.40
		Delta T	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	11	19	17	14	10
820	820	KW	1.64	1.67	1.72	1.77	1.76	1.79	1.85	1.91	1.86	1.90	1.96	2.02	1.96	2.00	2.06	2.13	2.04	2.08	2.15	2.22	2.10	2.15	2.22	2.29
		AMPS	6.1	6.3	6.5	6.7	6.6	6.8	7.0	7.3	7.2	7.4	7.6	7.9	7.7	7.9	8.1	8.4	8.2	8.4	8.6	9.0	8.6	8.8	9.1	9.5
		HIPR	137	148	156	163	154	166	175	183	175	189	199	208	200	215	227	237	225	242	255	266	248	267	282	294
		LOPR	61	65	71	75	64	69	75	80	67	71	78	83	70	75	82	87	74	78	86	91	76	81	89	94
		MBh	20.5	21.1	22.9	24.6	20.1	20.7	22.4	24.0	19.6	20.2	21.8	23.4	19.1	19.67	21.3	22.9	18.2	18.7	20.2	21.7	16.8	17.3	18.7	20.1
		S/T	0.78	0.69	0.53	0.34	0.80	0.72	0.54	0.35	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.89	0.80	0.60	0.39
		Delta T	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	14	10
		KW	1.60	1.63	1.68	1.73	1.72	1.75	1.80	1.86	1.82	1.86	1.91	1.98	1.91	1.95	2.01	2.08	1.99	2.03	2.09	2.16	2.05	2.10	2.17	2.24
		AMPS	6.0	6.1	6.3	6.5	6.4	6.6	6.8	7.1	7.0	7.2	7.4	7.7	7.5	7.6	7.9	8.2	7.9	8.1	8.4	8.7	8.4	8.6	8.9	9.2
		HIPR	133	143	151	158	149	161	170	177	170	183	193	201	194	208	220	229	218	234	247	258	241	259	273	285
LOPR	59	63	69	73	63	67	73	77	65	69	75	80	68	73	79	84	72	76	83	88	74	79	86	92		

COOLING PERFORMANCE DATA

GSH130241A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130241A* / ARUF32-00*1* / ARUF18241A*

IDB*		Outdoor Ambient Temperature																																																
		65						75						85						95						105						115																		
		Entering Indoor Wet Bulb Temperature																																																
Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																					
80	923	MBh	23.33	23.84	25.47	27.22	22.79	23.28	24.87	26.59	22.24	22.73	24.28	25.96	21.70	22.17	23.69	25.32	20.62	21.07	22.51	24.06	19.10	19.51	20.85	22.29	19.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.81	0.61
		S/T	22	21	18	14	22	21	18	15	22	21	18	15	22	21	18	15	21	21	18	14	19	19	17	13	1.66	1.69	1.75	1.80	1.78	1.82	1.88	1.94	1.89	1.93	1.99	2.06	1.99	2.03	2.10	2.16	2.07	2.11	2.18	2.25	2.14	2.19	2.26	2.33
		KW	6.2	6.4	6.6	6.8	6.7	6.9	7.1	7.4	7.3	7.5	7.7	8.0	7.8	8.0	8.3	8.6	8.3	8.5	8.8	9.1	8.8	9.0	9.3	9.7	1.40	1.51	1.59	1.66	1.57	1.69	1.79	1.86	1.79	1.92	2.03	2.12	2.04	2.19	2.31	2.41	2.29	2.46	2.60	2.71	2.53	2.72	2.88	3.00
		HIPR	62	66	72	77	66	70	76	81	68	73	79	85	72	76	83	89	75	80	87	93	78	83	90	96	22.6	23.1	24.7	26.4	22.1	22.6	24.2	25.8	21.6	22.1	23.6	25.2	21.1	21.5	23.0	24.6	20.0	20.5	21.9	23.4	18.5	18.9	20.2	21.6
		LO PR	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	21	20	18	14	0.88	0.83	0.67	0.50	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	0.95	0.77	0.58
	820	Delta T	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	21	20	18	14	1.65	1.68	1.73	1.79	1.77	1.81	1.86	1.92	1.88	1.92	1.98	2.04	1.97	2.01	2.08	2.15	2.05	2.10	2.16	2.24	2.12	2.17	2.24	2.31
		KW	6.2	6.3	6.5	6.8	6.7	6.8	7.1	7.3	7.2	7.4	7.7	7.9	7.7	7.9	8.2	8.5	8.2	8.4	8.7	9.0	8.7	8.9	9.2	9.6	1.39	1.49	1.58	1.64	1.56	1.67	1.77	1.84	1.77	1.90	2.01	2.10	2.02	2.17	2.29	2.39	2.27	2.44	2.58	2.69	2.51	2.70	2.85	2.97
		HIPR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	74	79	86	92	77	82	89	95	20.9	21.4	22.8	24.4	20.4	20.9	22.3	23.8	19.9	20.4	21.8	23.3	19.4	19.9	21.2	22.7	18.5	18.9	20.2	21.6	17.1	17.5	18.7	20.0
		LO PR	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	21	18	14	0.85	0.80	0.65	0.49	0.88	0.83	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.88	0.71	0.53	0.97	0.91	0.74	0.55	0.98	0.92	0.75	0.56
		Delta T	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	21	18	14	1.61	1.64	1.69	1.74	1.73	1.76	1.82	1.88	1.83	1.87	1.93	1.99	1.92	1.97	2.03	2.09	2.00	2.05	2.11	2.18	2.07	2.12	2.18	2.25
718	KW	6.0	6.2	6.4	6.6	6.5	6.7	6.9	7.1	7.0	7.2	7.5	7.7	7.5	7.7	8.0	8.3	8.0	8.2	8.5	8.8	8.5	8.7	9.0	9.3	1.35	1.45	1.53	1.59	1.51	1.62	1.72	1.79	1.72	1.85	1.95	2.03	1.96	2.10	2.22	2.32	2.20	2.37	2.50	2.61	2.43	2.62	2.76	2.88	
	HIPR	60	64	69	74	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	89	75	79	87	92	20.9	21.4	22.8	24.4	20.4	20.9	22.3	23.8	19.9	20.4	21.8	23.3	19.4	19.9	21.2	22.7	18.5	18.9	20.2	21.6	17.1	17.5	18.7	20.0	
	LO PR	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	21	18	14	0.85	0.80	0.65	0.49	0.88	0.83	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.88	0.71	0.53	0.97	0.91	0.74	0.55	0.98	0.92	0.75	0.56	
	Delta T	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	21	18	14	1.61	1.64	1.69	1.74	1.73	1.76	1.82	1.88	1.83	1.87	1.93	1.99	1.92	1.97	2.03	2.09	2.00	2.05	2.11	2.18	2.07	2.12	2.18	2.25	
	KW	6.0	6.2	6.4	6.6	6.5	6.7	6.9	7.1	7.0	7.2	7.5	7.7	7.5	7.7	8.0	8.3	8.0	8.2	8.5	8.8	8.5	8.7	9.0	9.3	1.35	1.45	1.53	1.59	1.51	1.62	1.72	1.79	1.72	1.85	1.95	2.03	1.96	2.10	2.22	2.32	2.20	2.37	2.50	2.61	2.43	2.62	2.76	2.88	

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130241B* / AR*FJ82416**

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

			Outdoor Ambient Temperature																																			
			65						75						85						95						105						115					
			Entering Indoor Wet Bulb Temperature																																			
IDB	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71								
70	956	MBh	22.5	23.4	25.6	-	22.0	22.8	25.0	-	21.5	22.3	24.4	-	21.0	21.7	23.8	-	19.9	20.6	22.6	-	18.4	19.1	21.0	-	18.4	19.1	21.0	-								
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-								
		Delta T	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	15	13	10	-	15	13	10	-								
		KW	1.59	1.63	1.68	-	1.71	1.75	1.80	-	1.81	1.85	1.91	-	1.91	1.95	2.01	-	1.98	2.03	2.09	-	2.05	2.09	2.16	-	2.05	2.09	2.16	-								
		AMPS	5.8	6.0	6.2	-	6.3	6.4	6.7	-	6.8	7.0	7.2	-	7.3	7.5	7.7	-	7.8	8.0	8.2	-	8.2	8.4	8.7	-	8.2	8.4	8.7	-								
		HIPR	140	151	159	-	157	169	179	-	179	193	203	-	204	219	232	-	229	247	261	-	253	273	288	-	253	273	288	-								
		LO PR	62	66	72	-	65	69	76	-	68	72	79	-	71	76	83	-	75	79	87	-	77	82	90	-	77	82	90	-								
850		MBh	21.9	22.7	24.8	-	21.4	22.2	24.3	-	20.9	21.6	23.7	-	20.4	21.1	23.1	-	19.3	20.0	22.0	-	17.9	18.6	20.3	-	17.9	18.6	20.3	-								
		S/T	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.81	0.68	0.47	-	0.81	0.68	0.47	-								
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-	16	14	10	-								
		KW	1.58	1.61	1.66	-	1.70	1.73	1.79	-	1.80	1.84	1.90	-	1.89	1.93	1.99	-	1.97	2.01	2.07	-	2.03	2.08	2.14	-	2.03	2.08	2.14	-								
		AMPS	5.8	5.9	6.1	-	6.2	6.4	6.6	-	6.8	6.9	7.2	-	7.2	7.4	7.7	-	7.7	7.9	8.1	-	8.2	8.4	8.6	-	8.2	8.4	8.6	-								
		HIPR	139	149	158	-	156	168	177	-	177	191	201	-	202	217	229	-	227	244	258	-	251	270	285	-	251	270	285	-								
		LO PR	61	65	71	-	65	69	75	-	67	71	78	-	70	75	82	-	74	79	86	-	76	81	89	-	76	81	89	-								
744		MBh	20.2	20.9	22.9	-	19.7	20.4	22.4	-	19.3	20.0	21.9	-	18.8	19.5	21.3	-	17.8	18.5	20.3	-	16.5	17.1	18.8	-	16.5	17.1	18.8	-								
		S/T	0.68	0.57	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.78	0.65	0.45	-	0.78	0.65	0.45	-								
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-	16	14	11	-								
		KW	1.55	1.58	1.62	-	1.66	1.69	1.74	-	1.76	1.79	1.85	-	1.85	1.88	1.94	-	1.92	1.96	2.02	-	1.98	2.03	2.09	-	1.98	2.03	2.09	-								
		AMPS	5.6	5.7	5.9	-	6.1	6.2	6.4	-	6.6	6.7	7.0	-	7.0	7.2	7.4	-	7.5	7.7	7.9	-	7.9	8.1	8.4	-	7.9	8.1	8.4	-								
		HIPR	135	145	153	-	151	163	172	-	172	185	195	-	196	211	222	-	220	237	250	-	243	262	276	-	243	262	276	-								
		LO PR	59	63	69	-	63	67	73	-	65	69	76	-	68	73	79	-	72	76	83	-	74	79	86	-	74	79	86	-								

GSH130241B*

75	956	MBh	22.92	23.60	25.54	27.41	22.39	23.05	24.95	26.78	21.85	22.50	24.36	26.14	21.32	21.95	23.76	25.50	20.25	20.85	22.57	24.23	18.76	19.32	20.91	22.44
		S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.42
		Delta T	19	17	14	10	19	17	14	10	19	17	14	10	19	17	14	10	19	17	14	10	17	16	13	9
		KW	1.61	1.64	1.69	1.74	1.72	1.76	1.81	1.87	1.83	1.87	1.93	1.99	1.92	1.96	2.02	2.09	2.00	2.04	2.11	2.18	2.07	2.11	2.18	2.25
		AMPS	5.9	6.0	6.2	6.4	6.3	6.5	6.7	7.0	6.9	7.1	7.3	7.6	7.4	7.5	7.8	8.1	7.8	8.0	8.3	8.6	8.3	8.5	8.8	9.1
		HIPR	142	152	161	168	159	171	181	188	181	195	205	214	206	222	234	244	232	249	263	275	256	275	291	303
		LO PR	62	66	72	77	66	70	76	81	68	73	79	85	72	76	83	89	75	80	87	93	78	83	91	96
	850	MBh	22.3	22.9	24.8	26.6	21.7	22.4	24.2	26.0	21.2	21.8	23.6	25.4	20.7	21.3	23.1	24.8	19.7	20.2	21.9	23.5	18.2	18.8	20.3	21.8
		S/T	0.80	0.72	0.54	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.92	0.82	0.62	0.40	0.92	0.83	0.63	0.40
		Delta T	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	19	18	15	10	18	17	14	9
KW		1.60	1.63	1.68	1.73	1.71	1.75	1.80	1.86	1.81	1.85	1.91	1.97	1.91	1.95	2.01	2.07	1.98	2.03	2.09	2.16	2.05	2.09	2.16	2.23	
AMPS		5.8	6.0	6.2	6.4	6.3	6.4	6.7	6.9	6.8	7.0	7.2	7.5	7.3	7.5	7.7	8.0	7.8	8.0	8.2	8.5	8.2	8.4	8.7	9.1	
HIPR		140	151	159	166	157	169	179	187	179	193	203	212	204	219	232	242	229	247	261	272	253	273	288	300	
LO PR		62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	79	87	92	77	82	90	95	
744	MBh	20.5	21.1	22.9	24.6	20.1	20.7	22.4	24.0	19.6	20.2	21.8	23.4	19.1	19.67	21.3	22.9	18.2	18.7	20.2	21.7	16.8	17.3	18.7	20.1	
	S/T	0.78	0.69	0.53	0.34	0.80	0.72	0.54	0.35	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.89	0.80	0.60	0.39	
	Delta T	20	18	15	10	20	18	15	10	20	18	15	10	20	19	15	10	20	18	15	10	19	17	14	10	
	KW	1.56	1.59	1.64	1.69	1.67	1.71	1.76	1.81	1.77	1.81	1.86	1.92	1.86	1.90	1.96	2.02	1.94	1.98	2.04	2.11	2.00	2.04	2.11	2.18	
	AMPS	5.7	5.8	6.0	6.2	6.1	6.3	6.5	6.7	6.6	6.8	7.0	7.3	7.1	7.3	7.5	7.8	7.6	7.7	8.0	8.3	8.0	8.2	8.5	8.8	
	HIPR	136	146	155	161	153	164	173	181	174	187	197	206	198	213	225	234	222	239	253	264	246	265	279	291	
	LO PR	60	64	70	74	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	89	75	80	87	93	

COOLING PERFORMANCE DATA

GSH130241B*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130241B* / AR*F182416**

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

		Outdoor Ambient Temperature										105														
		65					75					85					95					115				
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
80	956	MBh	23.33	23.84	25.47	27.22	22.79	23.28	24.87	26.59	22.24	22.73	24.28	25.96	21.70	22.17	23.69	25.32	20.62	21.07	22.51	24.06	19.10	19.51	20.85	22.29
		S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.81	0.61
		Delta T	21	20	17	14	21	20	18	14	21	20	18	14	21	20	18	14	20	20	17	14	18	19	16	13
		KW	1.62	1.65	1.70	1.75	1.74	1.77	1.83	1.89	1.84	1.88	1.94	2.00	1.94	1.98	2.04	2.11	2.02	2.06	2.12	2.19	2.08	2.13	2.20	2.27
		AMPS	5.9	6.1	6.3	6.5	6.4	6.6	6.8	7.0	7.0	7.1	7.4	7.6	7.4	7.6	7.9	8.2	7.9	8.1	8.4	8.7	8.4	8.6	8.9	9.2
	HIPR	143	154	163	170	161	173	182	190	183	197	208	216	208	224	236	247	234	252	266	277	259	278	294	306	
	LOPR	63	67	73	78	67	71	77	82	69	74	80	86	73	77	84	90	76	81	88	94	79	84	91	97	
	850	MBh	22.6	23.1	24.7	26.4	22.1	22.6	24.2	25.8	21.6	22.1	23.6	25.2	21.1	21.5	23.0	24.6	20.0	20.5	21.9	23.4	18.5	18.9	20.2	21.6
		S/T	0.88	0.83	0.67	0.50	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	0.95	0.77	0.58
		Delta T	22	21	18	14	22	21	18	15	22	21	18	15	22	21	18	15	22	21	18	14	20	19	17	14
KW		1.61	1.64	1.69	1.74	1.73	1.76	1.81	1.87	1.83	1.87	1.93	1.99	1.92	1.96	2.02	2.09	2.00	2.04	2.11	2.18	2.07	2.11	2.18	2.25	
AMPS		5.9	6.0	6.2	6.4	6.3	6.5	6.7	7.0	6.9	7.1	7.3	7.6	7.4	7.5	7.8	8.1	7.8	8.0	8.3	8.6	8.3	8.5	8.8	9.1	
744	HIPR	142	152	161	168	159	171	181	188	181	195	205	214	206	222	234	244	232	249	263	275	256	275	291	303	
	LOPR	62	66	72	77	66	70	76	81	68	73	79	85	72	76	84	89	75	80	88	93	78	83	91	96	
	MBh	20.9	21.4	22.8	24.4	20.4	20.9	22.3	23.8	19.9	20.4	21.8	23.3	19.4	19.9	21.2	22.7	18.5	18.9	20.2	21.6	17.1	17.5	18.7	20.0	
	S/T	0.85	0.80	0.65	0.49	0.88	0.83	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.88	0.71	0.53	0.97	0.91	0.74	0.55	0.98	0.92	0.75	0.56	
	Delta T	22	21	18	15	22	21	19	15	22	21	19	15	22	22	19	15	22	21	18	15	21	20	17	14	

85	956	MBh	23.74	24.19	25.34	27.03	23.18	23.63	24.75	26.40	22.63	23.07	24.16	25.78	22.08	22.51	23.57	25.15	20.98	21.38	22.39	23.89	19.43	19.81	20.74	22.13
		S/T	0.97	0.94	0.84	0.69	1.00	0.97	0.88	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79
		Delta T	22	22	21	18	22	22	21	18	22	22	21	18	21	21	22	21	18	20	21	21	18	19	19	17
		KW	1.63	1.66	1.72	1.77	1.75	1.79	1.84	1.90	1.86	1.90	1.96	2.02	1.95	1.99	2.06	2.12	2.03	2.08	2.14	2.21	2.10	2.15	2.22	2.29
		AMPS	6.0	6.1	6.3	6.6	6.5	6.6	6.8	7.1	7.0	7.2	7.4	7.7	7.5	7.7	7.9	8.2	8.0	8.2	8.5	8.8	8.5	8.7	9.0	9.3
	850	HIPR	145	156	164	171	162	175	184	192	184	198	210	219	210	226	239	249	236	254	269	280	261	281	297	309
		LOPR	64	68	74	79	67	71	78	83	70	74	81	86	73	78	85	91	77	82	89	95	79	85	92	98
		MBh	23.0	23.5	24.6	26.2	22.5	22.9	24.0	25.6	22.0	22.4	23.5	25.0	21.4	21.9	22.9	24.4	20.4	20.8	21.7	23.2	18.9	19.2	20.1	21.5
		S/T	0.93	0.89	0.81	0.65	0.96	0.93	0.84	0.68	0.98	0.95	0.86	0.69	1.00	0.98	0.88	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.93	0.75
		Delta T	23	23	21	19	23	23	22	19	23	23	22	19	23	23	22	19	22	22	22	19	20	21	20	17
744	KW	1.62	1.65	1.70	1.75	1.74	1.77	1.83	1.89	1.84	1.88	1.94	2.00	1.94	1.98	2.04	2.11	2.02	2.06	2.12	2.19	2.08	2.13	2.20	2.27	
	AMPS	5.9	6.1	6.3	6.5	6.4	6.6	6.8	7.0	7.0	7.1	7.4	7.6	7.4	7.6	7.9	8.2	7.9	8.1	8.4	8.7	8.4	8.6	8.9	9.2	
	HIPR	143	154	163	170	161	173	182	190	183	197	208	216	208	224	236	247	234	252	266	277	259	278	294	306	
	LOPR	63	67	73	78	67	71	77	82	69	74	80	86	73	77	84	90	76	81	88	94	79	84	91	97	
	MBh	21.3	21.7	22.7	24.2	20.8	21.2	22.2	23.7	20.3	20.7	21.7	23.1	19.8	20.2	21.1	22.5	18.8	19.2	20.1	21.4	17.4	17.7	18.6	19.8	
S/T	0.89	0.86	0.78	0.63	0.92	0.89	0.81	0.65	0.95	0.91	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	0.99	0.89	0.72		
Delta T	23	23	22	19	24	23	22	19	24	23	22	19	24	24	22	19	23	23	22	19	22	22	20	18		
KW	1.58	1.61	1.66	1.71	1.70	1.73	1.79	1.84	1.80	1.84	1.89	1.95	1.89	1.93	1.99	2.05	1.97	2.01	2.07	2.14	2.03	2.08	2.14	2.21		
AMPS	5.8	5.9	6.1	6.3	6.2	6.4	6.6	6.8	6.8	6.8	6.9	7.2	7.4	7.2	7.4	7.7	7.9	7.7	7.9	8.1	8.5	8.2	8.4	8.6	9.0	
HIPR	139	149	158	165	156	168	177	185	177	191	201	210	202	217	229	239	227	244	258	269	251	270	285	297		
LOPR	61	65	71	76	65	69	75	80	67	71	78	83	70	75	82	87	74	79	86	91	76	81	89	94		

Shaded area is AHRI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power
High and low pressures are measured at the liquid and suction service valves. AMPS=outdoor unit amps (comp.+fan)

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130251A* / AWB36-XX / AWUF36XX1A* Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

IDB*		Outdoor Ambient Temperature																																															
		65								75								85								95								105								115							
70	Airflow	Entering Indoor Wet Bulb Temperature																																															
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																				
923	MBh	23.5	24.4	26.7	-	23.0	23.8	26.1	-	22.4	23.2	25.5	-	21.9	22.7	24.8	-	20.8	21.5	23.6	-	19.3	20.0	21.9	-	17.4	18.1	20.2	-	16.1	16.8	18.9	-	14.8	15.5	17.6	-	13.7	14.4										
	S/T	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.45	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-	0.74	0.61	0.40	-	0.68	0.55	0.34	-	0.51	0.38	0.17	-	0.29	0.16										
	Delta T	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-	14	12	10	-	12	10	8	-	7	6	4	-	3	2										
	KW	1.68	1.71	1.76	-	1.79	1.83	1.88	-	1.90	1.93	1.99	-	1.99	2.03	2.09	-	2.06	2.11	2.17	-	2.13	2.18	2.24	-	2.06	2.11	2.17	-	2.06	2.11	2.17	-	2.03	2.08	2.14	-	1.95	2.00										
	AMPS	6.7	6.8	7.0	-	7.2	7.3	66.0	-	7.7	7.9	8.1	-	8.2	8.4	8.6	-	8.7	8.9	9.1	-	9.1	9.3	9.6	-	8.7	8.9	9.1	-	8.7	8.9	9.1	-	8.4	8.6	8.8	-	8.1	8.3										
	LO PR	139	150	158	-	156	168	177	-	177	191	202	-	202	217	230	-	227	245	258	-	251	270	285	-	227	245	258	-	227	245	258	-	221	239	252	-	209	227										
820	MBh	22.8	23.7	25.9	-	22.3	23.1	25.3	-	21.8	22.6	24.7	-	21.2	22.0	24.1	-	20.2	20.9	22.9	-	18.7	19.4	21.2	-	16.6	17.3	19.4	-	15.5	16.2	18.3	-	13.6	14.3	16.4	-	12.5	13.2										
	S/T	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.81	0.68	0.47	-	0.74	0.61	0.40	-	0.68	0.55	0.34	-	0.51	0.38	0.17	-	0.29	0.16										
	Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	16	14	11	-	14	12	10	-	12	10	8	-	7	6	4	-	3	2										
	KW	1.66	1.70	1.74	-	1.78	1.81	1.87	-	1.88	1.92	1.98	-	1.97	2.01	2.07	-	2.05	2.09	2.15	-	2.11	2.16	2.23	-	2.04	2.09	2.15	-	2.04	2.09	2.15	-	1.99	2.04	2.10	-	1.93	1.98										
	AMPS	6.6	6.8	7.0	-	7.1	7.3	7.5	-	7.6	7.8	8.0	-	8.1	8.3	8.5	-	8.6	8.8	9.0	-	9.0	9.3	9.5	-	8.6	8.8	9.0	-	8.6	8.8	9.0	-	8.3	8.5	8.7	-	8.0	8.2										
	LO PR	138	148	156	-	154	166	175	-	176	189	200	-	200	215	227	-	225	242	256	-	249	267	282	-	225	242	256	-	225	242	256	-	219	236	250	-	211	228										
718	MBh	59	63	68	-	62	66	72	-	65	69	75	-	68	72	79	-	71	76	83	-	73	78	85	-	69	73	80	-	67	71	78	-	64	68	75	-	61	65										
	MBh	21.1	21.8	23.9	-	20.6	21.3	23.4	-	20.1	20.8	22.8	-	19.6	20.3	22.3	-	18.6	19.3	21.1	-	17.3	17.9	19.6	-	16.1	16.8	18.9	-	15.0	15.7	17.8	-	12.8	13.5	15.6	-	11.9	12.6										
	S/T	0.68	0.57	0.39	-	0.70	0.59	0.41	-	0.72	0.60	0.42	-	0.75	0.62	0.43	-	0.77	0.65	0.45	-	0.78	0.65	0.45	-	0.74	0.61	0.40	-	0.68	0.55	0.34	-	0.51	0.38	0.17	-	0.29	0.16										
	Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-	14	12	10	-	12	10	8	-	7	6	4	-	3	2										
	KW	1.63	1.66	1.71	-	1.74	1.77	1.83	-	1.84	1.88	1.93	-	1.93	1.97	2.02	-	2.00	2.04	2.10	-	2.07	2.11	2.17	-	1.98	2.03	2.09	-	1.98	2.03	2.09	-	1.93	1.98	2.04	-	1.88	1.93										
	AMPS	6.5	6.6	6.8	-	6.9	7.1	7.3	-	7.5	7.6	7.8	-	7.9	8.1	8.3	-	8.4	8.6	8.8	-	8.8	9.0	9.3	-	8.4	8.6	8.8	-	8.4	8.6	8.8	-	8.1	8.3	8.5	-	7.8	8.0										
70	HI PR	133	144	152	-	150	161	170	-	170	183	194	-	194	209	220	-	218	235	248	-	241	259	274	-	218	235	248	-	218	235	248	-	212	229	242	-	209	220										
	LO PR	57	61	66	-	60	64	70	-	63	67	73	-	66	70	76	-	69	73	80	-	71	76	83	-	69	73	80	-	69	73	80	-	67	71	77	-	64	68										

923	MBh	23.9	24.6	26.7	28.6	23.4	24.1	26.0	27.9	22.8	23.5	25.4	27.3	22.2	22.9	24.8	26.6	21.1	21.8	23.6	25.3	19.6	20.2	21.8	23.4
	S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.96	0.86	0.65	0.42	0.97	0.86	0.65	0.42
	Delta T	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	11	19	17	14	10
	KW	1.69	1.72	1.77	1.82	1.81	1.84	1.90	1.95	1.91	1.95	2.01	2.07	2.00	2.04	2.11	2.17	2.08	2.12	2.19	2.26	2.15	2.19	2.26	2.33
	AMPS	6.7	6.9	7.1	7.3	7.2	7.4	7.6	7.8	7.8	7.9	8.2	8.5	8.3	8.4	8.7	9.0	8.7	8.9	9.2	9.5	9.2	9.4	9.7	10.0
	HI PR	140	151	160	166	158	170	179	187	179	193	204	212	204	220	232	242	230	247	261	272	254	273	288	301
	LO PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93
820	MBh	23.2	23.9	25.9	27.8	22.7	23.4	25.3	27.1	22.1	22.8	24.7	26.5	21.6	22.2	24.1	25.8	20.5	21.1	22.9	24.5	19.0	19.6	21.2	22.7
	S/T	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.82	0.62	0.40	0.92	0.82	0.62	0.40
	Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	21	19	16	11	20	18	15	10
	KW	1.68	1.71	1.76	1.81	1.79	1.83	1.88	1.94	1.90	1.93	1.99	2.05	1.99	2.03	2.09	2.15	2.06	2.11	2.17	2.24	2.13	2.18	2.24	2.31
	AMPS	6.7	6.8	7.0	7.3	7.2	7.3	7.5	7.8	7.7	7.9	8.1	8.4	8.2	8.4	8.6	8.9	8.7	8.9	9.1	9.4	9.1	9.3	9.6	10.0
	HI PR	139	150	158	165	156	168	177	185	177	191	202	210	202	217	230	239	227	245	258	269	251	270	285	298
	LO PR	59	63	69	73	63	67	73	78	65	69	76	81	68	73	80	85	72	76	83	89	74	79	86	92
718	MBh	21.4	22.1	23.9	25.6	20.9	21.6	23.3	25.0	20.4	21.0	22.8	24.4	19.9	20.5	22.2	23.8	18.9	19.5	21.1	22.7	17.5	18.1	19.6	21.0
	S/T	0.77	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.82	0.73	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.79	0.60	0.38	0.89	0.79	0.60	0.39
	Delta T	21	20	16	11	21	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10
	KW	1.64	1.67	1.72	1.77	1.75	1.79	1.84	1.89	1.85	1.89	1.95	2.01	1.94	1.98	2.04	2.10	2.02	2.06	2.12	2.19	2.08	2.12	2.19	2.26
	AMPS	6.5	6.7	6.9	7.1	7.0	7.1	7.3	7.6	7.5	7.7	7.9	8.2	8.0	8.2	8.4	8.7	8.4	8.6	8.9	9.2	8.9	9.1	9.4	9.7
	HI PR	135	145	153	160	151	163	172	179	172	185	196	204	196	211	223	232	220	237	251	261	244	262	277	289
	LO PR	58	61	67	71	61	65	71	75	63	67	73	78	66	71	77	82	70	74	81	86	72	77	84	89

COOLING PERFORMANCE DATA

GSH130251A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130251A* / AWB36-XX / AWUF36XX1A* Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

Outdoor Ambient Temperature																																																																												
65										75										85										95										105										115																										
IDB*	Airflow	Entering Indoor Wet Bulb Temperature																																																																										
80	923	MBh	24.3	24.9	26.6	28.4	23.8	24.3	26.0	27.7	23.2	23.7	25.3	27.1	22.6	23.1	24.7	26.4	21.5	22.0	23.5	25.1	19.9	20.4	21.8	23.3	S/T	0.92	0.86	0.70	0.53	0.96	0.90	0.73	0.55	1.00	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.81	0.60																									
		Delta T	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	22	19	15	20	20	18	14	KW	1.70	1.73	1.78	1.84	1.82	1.86	1.91	1.97	1.92	1.96	2.02	2.08	2.02	2.06	2.12	2.19	2.10	2.14	2.21	2.28	2.16	2.21	2.28	2.35																									
		AMPS	6.8	6.9	7.1	7.4	7.3	7.4	7.7	7.9	7.8	8.0	8.2	8.5	8.3	8.5	8.8	9.1	8.8	9.0	9.3	9.6	9.3	9.5	9.8	10.1	HI PR	142	153	161	168	159	171	181	189	181	195	206	214	206	222	234	244	232	250	263	275	256	276	291	304																									
		LO PR	61	64	70	75	64	68	74	79	67	71	77	82	70	74	81	86	73	78	85	91	76	81	88	94	MBh	23.6	24.1	25.8	27.6	23.1	23.6	25.2	26.9	22.5	23.0	24.6	26.3	22.0	22.5	24.0	25.7	20.9	21.3	22.8	24.4	19.3	19.8	21.1	22.6	S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.70	0.52	0.93	0.88	0.71	0.53	0.96	0.90	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.95	0.77	0.58
		DT	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	22	20	16	22	21	18	15	Delta T	1.69	1.72	1.77	1.82	1.81	1.84	1.90	1.95	1.91	1.95	2.01	2.07	2.00	2.04	2.11	2.17	2.08	2.12	2.19	2.26	2.15	2.19	2.26	2.33																								
		AMPS	6.7	6.9	7.1	7.3	7.2	7.4	7.6	7.8	7.8	7.9	8.2	8.5	8.3	8.4	8.7	9.0	8.7	8.9	9.2	9.5	9.2	9.4	9.7	10.0	HI PR	140	151	160	166	158	170	179	187	179	193	204	212	204	220	232	242	230	247	261	272	254	273	288	301																									
		LO PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93	MBh	21.8	22.3	23.8	25.5	21.3	21.8	23.3	24.9	20.8	21.3	22.7	24.3	20.3	20.7	22.2	23.7	19.3	19.7	21.0	22.5	17.9	18.2	19.5	20.8	S/T	0.85	0.80	0.65	0.48	0.88	0.82	0.67	0.50	0.90	0.85	0.69	0.51	0.93	0.87	0.71	0.53	0.97	0.91	0.74	0.55	0.97	0.91	0.74	0.56
718	923	Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	19	15	KW	1.65	1.68	1.73	1.78	1.77	1.80	1.85	1.91	1.87	1.90	1.96	2.02	1.96	2.00	2.06	2.12	2.03	2.07	2.14	2.20	2.10	2.14	2.21	2.28	2.16	2.21	2.28	2.35																					
		AMPS	6.6	6.7	6.9	7.1	7.0	7.2	7.4	7.7	7.6	7.7	8.0	8.2	8.0	8.2	8.5	8.8	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.8	HI PR	136	147	155	161	153	164	174	181	174	187	197	206	1.98	2.13	225	235	223	240	253	264	246	265	280	292																									
		LO PR	58	62	68	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90	MBh	21.8	22.3	23.8	25.5	21.3	21.8	23.3	24.9	20.8	21.3	22.7	24.3	20.3	20.7	22.2	23.7	19.3	19.7	21.0	22.5	17.9	18.2	19.5	20.8	S/T	0.85	0.80	0.65	0.48	0.88	0.82	0.67	0.50	0.90	0.85	0.69	0.51	0.93	0.87	0.71	0.53	0.97	0.91	0.74	0.55	0.97	0.91	0.74	0.56
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	19	15	KW	1.65	1.68	1.73	1.78	1.77	1.80	1.85	1.91	1.87	1.90	1.96	2.02	1.96	2.00	2.06	2.12	2.03	2.07	2.14	2.20	2.10	2.14	2.21	2.28	2.16	2.21	2.28	2.35																					
		AMPS	6.6	6.7	6.9	7.1	7.0	7.2	7.4	7.7	7.6	7.7	8.0	8.2	8.0	8.2	8.5	8.8	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.8	HI PR	136	147	155	161	153	164	174	181	174	187	197	206	1.98	2.13	225	235	223	240	253	264	246	265	280	292																									
		LO PR	58	62	68	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90	MBh	21.8	22.3	23.8	25.5	21.3	21.8	23.3	24.9	20.8	21.3	22.7	24.3	20.3	20.7	22.2	23.7	19.3	19.7	21.0	22.5	17.9	18.2	19.5	20.8	S/T	0.85	0.80	0.65	0.48	0.88	0.82	0.67	0.50	0.90	0.85	0.69	0.51	0.93	0.87	0.71	0.53	0.97	0.91	0.74	0.55	0.97	0.91	0.74	0.56

EXPANDED PERFORMANCE DATA

COOLING PERFORMANCE DATA

GSH130301A*

MODEL: GSH130301A* / ARUF42-00*01* / ARUF30301A*

		Outdoor Ambient Temperature																																			
		65						75						85						95						105						115					
IDB*	Airflow	Entering Indoor Wet Bulb Temperature																																			
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71												
70	1173	MBh	27.0	28.0	30.7	-	26.4	27.4	30.0	-	25.8	26.7	29.3	-	25.2	26.1	28.6	-	23.9	24.8	27.1	-	22.1	22.9	25.1	-											
		S/T	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.86	0.72	0.50	-											
		Delta T	16	14	10	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	15	13	10	-											
		KW	2.04	2.08	2.14	-	2.19	2.24	2.31	-	2.32	2.37	2.45	-	2.44	2.49	2.57	-	2.54	2.60	2.68	-	2.63	2.69	2.77	-											
		AMPS	7.6	7.8	8.1	-	8.2	8.4	8.7	-	9.0	9.2	9.5	-	9.6	9.8	10.2	-	10.2	10.5	10.8	-	10.8	11.1	11.5	-											
		HI PR	141	152	161	-	159	171	180	-	181	194	205	-	206	221	234	-	231	249	263	-	256	275	290	-											
	LO PR	62	66	73	-	66	70	77	-	69	73	80	-	72	77	84	-	75	80	88	-	78	83	91	-												
1050		MBh	26.6	27.6	30.3	-	26.0	27.0	29.5	-	25.4	26.3	28.8	-	24.8	25.7	28.1	-	23.5	24.4	26.7	-	21.8	22.6	24.8	-											
		S/T	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.82	0.69	0.48	-											
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-											
		KW	2.03	2.07	2.13	-	2.18	2.22	2.29	-	2.31	2.36	2.43	-	2.43	2.48	2.56	-	2.53	2.58	2.67	-	2.61	2.67	2.76	-											
		AMPS	7.6	7.8	8.0	-	8.2	8.4	8.7	-	8.9	9.1	9.4	-	9.5	9.8	10.1	-	10.1	10.4	10.7	-	10.8	11.0	11.4	-											
		HI PR	140	151	160	-	158	170	179	-	179	193	204	-	204	220	232	-	230	247	261	-	254	273	288	-											
	LO PR	62	66	72	-	66	70	76	-	68	72	79	-	72	76	83	-	75	80	87	-	78	82	90	-												
927		MBh	25.3	26.2	28.7	-	24.7	25.6	28.1	-	24.1	25.0	27.4	-	23.5	24.4	26.7	-	22.4	23.2	25.4	-	20.7	21.5	23.5	-											
		S/T	0.69	0.57	0.40	-	0.71	0.60	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.79	0.66	0.46	-											
		Delta T	17	15	11	-	17	15	11	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-											
		KW	2.00	2.04	2.10	-	2.14	2.19	2.26	-	2.27	2.32	2.40	-	2.39	2.44	2.52	-	2.49	2.54	2.62	-	2.57	2.63	2.71	-											
		AMPS	7.4	7.6	7.9	-	8.0	8.2	8.5	-	8.7	9.0	9.3	-	9.3	9.6	9.9	-	10.0	10.2	10.5	-	10.6	10.8	11.2	-											
		HI PR	138	148	156	-	154	166	176	-	176	189	200	-	200	215	227	-	225	242	256	-	249	268	283	-											
	LO PR	61	65	71	-	64	68	75	-	67	71	78	-	70	75	81	-	73	78	85	-	76	81	88	-												

	1173	MBh	27.5	28.3	30.6	32.9	26.9	27.7	29.9	32.1	26.2	27.0	29.2	31.4	25.6	26.3	28.5	30.6	24.3	25.0	27.1	29.1	22.5	23.2	25.1	26.9
		S/T	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.66	0.43
		Delta T	18	17	14	10	19	17	14	10	19	17	14	10	19	17	14	10	18	17	14	10	17	16	13	9
		KW	2.05	2.10	2.16	2.23	2.21	2.25	2.32	2.40	2.34	2.39	2.47	2.55	2.46	2.52	2.60	2.79	2.79	2.65	2.62	2.70	2.79	2.65	2.71	2.80
	1050	AMPS	7.7	7.9	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.3	9.6	9.9	9.7	9.9	10.3	10.6	10.3	10.6	10.9	11.3	10.9	11.2	11.6	12.0
		HI PR	143	154	162	169	160	173	182	190	182	196	207	216	208	224	236	246	234	251	266	277	258	278	293	306
		LO PR	63	67	73	78	67	71	77	82	69	74	80	86	73	77	85	90	76	81	89	94	79	84	92	98
		MBh	27.1	27.9	30.2	32.4	26.5	27.2	29.5	31.6	25.8	26.6	28.8	30.9	25.2	25.9	28.1	30.1	23.9	24.6	26.7	28.6	22.2	22.8	24.7	26.5
	927	S/T	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.94	0.84	0.63	0.41
		Delta T	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	19	18	15	10	18	17	14	9
		KW	2.04	2.08	2.15	2.22	2.19	2.24	2.31	2.38	2.33	2.38	2.45	2.53	2.45	2.50	2.58	2.67	2.55	2.60	2.69	2.78	2.64	2.69	2.78	2.87
		AMPS	7.6	7.8	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.9	9.6	9.9	10.2	10.6	10.2	10.5	10.8	11.3	10.9	11.1	11.5	11.9
		HI PR	142	153	161	168	159	171	181	189	181	195	206	215	206	222	234	244	232	250	264	275	256	276	291	304
		LO PR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97
		MBh	25.7	26.5	28.7	30.8	25.1	25.9	28.0	30.1	24.5	25.3	27.3	29.4	23.9	24.6	26.7	28.6	22.7	23.4	25.3	27.2	21.1	21.7	23.5	25.2
		S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.80	0.61	0.39
		Delta T	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	10	19	17	14	10
		KW	2.01	2.05	2.11	2.18	2.16	2.21	2.27	2.35	2.29	2.34	2.41	2.49	2.41	2.46	2.54	2.62	2.51	2.56	2.64	2.73	2.59	2.65	2.74	2.83
		AMPS	7.5	7.7	7.9	8.2	8.1	8.3	8.6	8.9	8.8	9.0	9.3	9.7	9.4	9.7	10.0	10.4	10.0	10.3	10.6	11.1	10.7	10.9	11.3	11.7
		HI PR	139	150	158	165	156	168	177	185	177	191	202	210	202	218	230	240	227	245	258	270	251	270	286	298
		LO PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	88	74	79	86	92	77	82	89	95

Shaded area is A CCA (TVA) conditions
High and low pressures are measured at the liquid and suction service valves.
IDB: Entering Indoor Dry Bulb Temperature
KW=Total system power
AMPS=outdoor unit amps (comp.+fan)

COOLING PERFORMANCE DATA

GSH130301A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130301A* / ARUF42-00*01* / ARUF30301A*

		Outdoor Ambient Temperature																																							
		65						75						85						95						105						115									
IDB*	Airflow	Entering Indoor Wet Bulb Temperature																																							
1173	MBh	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143	147	151	155	159	163	167	171	175	179	183	187	191	195	199	203			
	S/T	28.0	28.6	30.6	32.7	27.3	27.9	29.8	31.9	26.7	27.3	29.1	31.1	26.0	26.6	28.4	30.4	24.7	25.3	27.0	28.9	22.9	23.4	25.0	26.7	22.9	23.4	25.0	26.7	22.9	23.4	25.0	26.7	22.9	23.4	25.0	26.7	22.9	23.4	25.0	26.7
	Delta T	21	20	17	14	21	20	17	14	21	20	17	14	20	20	17	14	19	20	17	14	18	18	16	13	18	18	16	13	18	18	16	13	18	18	16	13	18	18	16	13
	KW	2.07	2.11	2.18	2.25	2.22	2.27	2.34	2.42	2.36	2.41	2.49	2.57	2.48	2.54	2.62	2.70	2.58	2.64	2.73	2.82	2.67	2.73	2.82	2.92	2.67	2.73	2.82	2.92	2.67	2.73	2.82	2.92	2.67	2.73	2.82	2.92	2.67	2.73	2.82	2.92
	AMPS	7.8	8.0	8.2	8.5	8.4	8.6	8.9	9.2	9.1	9.4	9.7	10.0	9.8	10.0	10.3	10.7	10.4	10.7	11.0	11.4	11.0	11.3	11.7	12.1	11.0	11.3	11.7	12.1	11.0	11.3	11.7	12.1	11.0	11.3	11.7	12.1	11.0	11.3	11.7	12.1
	LO PR	144	155	164	171	162	174	184	192	184	198	209	218	210	226	238	249	236	254	268	280	261	281	296	309	261	281	296	309	261	281	296	309	261	281	296	309	261	281	296	309
	1050	MBh	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143	147	151	155	159	163	167	171	175	179	183	187	191	195	199	203		
S/T		27.6	28.2	30.1	32.2	26.9	27.5	29.4	31.4	26.3	26.9	28.7	30.7	25.6	26.2	28.0	29.9	24.4	24.9	26.6	28.4	22.6	23.1	24.6	26.3	22.6	23.1	24.6	26.3	22.6	23.1	24.6	26.3	22.6	23.1	24.6	26.3	22.6	23.1	24.6	26.3
Delta T		22	21	18	14	22	21	18	15	22	21	18	15	22	21	18	15	21	21	18	14	20	19	17	14	20	19	17	14	20	19	17	14	20	19	17	14	20	19	17	14
KW		2.06	2.10	2.17	2.23	2.21	2.26	2.33	2.40	2.35	2.40	2.47	2.55	2.47	2.52	2.60	2.69	2.57	2.63	2.71	2.80	2.66	2.72	2.80	2.90	2.66	2.72	2.80	2.90	2.66	2.72	2.80	2.90	2.66	2.72	2.80	2.90	2.66	2.72	2.80	2.90
AMPS		7.7	7.9	8.2	8.5	8.3	8.5	8.8	9.2	9.1	9.3	9.6	10.0	9.7	9.9	10.3	10.7	10.3	10.6	11.0	11.4	11.0	11.2	11.6	12.1	11.0	11.2	11.6	12.1	11.0	11.2	11.6	12.1	11.0	11.2	11.6	12.1	11.0	11.2	11.6	12.1
LO PR		143	154	163	170	161	173	183	191	183	197	208	217	208	224	237	247	234	252	266	278	259	279	294	307	259	279	294	307	259	279	294	307	259	279	294	307	259	279	294	307
927		MBh	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143	147	151	155	159	163	167	171	175	179	183	187	191	195	199	203		
	S/T	26.2	26.8	28.6	30.6	25.6	26.1	27.9	29.9	25.0	25.5	27.3	29.1	24.4	24.9	26.6	28.4	23.1	23.7	25.3	27.0	21.4	21.9	23.4	25.0	21.4	21.9	23.4	25.0	21.4	21.9	23.4	25.0	21.4	21.9	23.4	25.0	21.4	21.9	23.4	25.0
	Delta T	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	21	19	15	21	20	17	14	21	20	17	14	21	20	17	14	21	20	17	14	21	20	17	14
	KW	2.03	2.07	2.13	2.20	2.18	2.22	2.29	2.37	2.31	2.36	2.43	2.51	2.43	2.48	2.56	2.64	2.53	2.58	2.67	2.75	2.61	2.67	2.76	2.85	2.61	2.67	2.76	2.85	2.61	2.67	2.76	2.85	2.61	2.67	2.76	2.85	2.61	2.67	2.76	2.85
	AMPS	7.6	7.8	8.0	8.3	8.2	8.4	8.7	9.0	8.9	9.1	9.4	9.8	9.5	9.8	10.1	10.5	10.1	10.4	10.7	11.2	10.8	11.0	11.4	11.8	10.8	11.0	11.4	11.8	10.8	11.0	11.4	11.8	10.8	11.0	11.4	11.8	10.8	11.0	11.4	11.8
	LO PR	140	151	160	166	158	170	179	187	179	193	204	212	204	220	232	242	230	247	261	272	254	273	288	301	254	273	288	301	254	273	288	301	254	273	288	301	254	273	288	301

		Outdoor Ambient Temperature																																																																																															
		65								75								85								95								105								115																																																							
IDB*	Airflow	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143	147	151	155	159	163	167	171	175	179	183	187	191	195	199	203																																																											
85	1173	28.5	29.0	30.4	32.4	27.8	28.4	29.7	31.7	27.1	27.7	29.0	30.9	26.5	27.0	28.3	30.2	25.2	25.7	26.9	28.7	23.3	23.8	24.9	26.5	23.3	23.8	24.9	26.5	23.3	23.8	24.9	26.5	23.3	23.8	24.9	26.5	23.3	23.8	24.9	26.5																																																								
		S/T	0.98	0.95	0.85	0.69	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.80	1.00	1.00	0.98	0.80	1.00	1.00	0.98	0.80	1.00	1.00	0.98	0.80	1.00	1.00	0.98	0.80																																																							
		Delta T	22	22	20	18	22	22	21	18	21	22	21	18	21	21	21	18	20	20	20	18	18	19	17	20	20	19	17	20	20	19	17	20	20	19	17	20	20	19	17																																																								
		KW	2.09	2.13	2.19	2.26	2.24	2.29	2.36	2.44	2.38	2.43	2.51	2.59	2.50	2.56	2.64	2.73	2.61	2.66	2.75	2.84	2.70	2.75	2.84	2.94	2.70	2.75	2.84	2.94	2.70	2.75	2.84	2.94	2.70	2.75	2.84	2.94	2.70	2.75	2.84	2.94																																																							
		AMPS	7.8	8.0	8.3	8.6	8.5	8.7	9.0	9.3	9.2	9.4	9.8	10.1	9.9	10.1	10.4	10.8	10.5	10.8	11.1	11.6	11.1	11.4	11.8	12.3	11.1	11.4	11.8	12.3	11.1	11.4	11.8	12.3	11.1	11.4	11.8	12.3	11.1	11.4	11.8	12.3																																																							
		HI PR	146	157	166	173	164	176	186	194	186	200	211	221	212	228	241	251	238	257	271	283	263	283	299	312	263	283	299	312	263	283	299	312	263	283	299	312	263	283	299	312																																																							
		LO PR	64	68	75	80	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	80	86	93	100	80	86	93	100	80	86	93	100	80	86	93	100	80	86	93	100																																																							
85	1050	28.1	28.6	29.9	32.0	27.4	27.9	29.3	31.2	26.7	27.3	28.6	30.5	26.1	26.6	27.9	29.7	24.8	25.3	26.5	28.2	23.0	23.4	24.5	26.2	23.0	23.4	24.5	26.2	23.0	23.4	24.5	26.2	23.0	23.4	24.5	26.2	23.0	23.4	24.5	26.2																																																								
		S/T	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.96	0.87	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.94	0.76	1.00	1.00	0.94	0.76	1.00	1.00	0.93	0.76	1.00	1.00	0.94	0.76	1.00	1.00	0.94	0.76																																																							
		Delta T	23	23	21	19	23	23	22	19	23	23	22	19	23	23	22	19	22	22	22	19	20	20	17	22	22	20	17	22	22	20	17	22	22	20	17	22	22	20	17																																																								
		KW	2.07	2.12	2.18	2.25	2.23	2.28	2.35	2.42	2.37	2.42	2.49	2.58	2.49	2.54	2.62	2.71	2.59	2.65	2.73	2.82	2.68	2.74	2.83	2.92	2.68	2.74	2.83	2.92	2.68	2.74	2.83	2.92	2.68	2.74	2.83	2.92	2.68	2.74	2.83	2.92																																																							
		AMPS	7.8	8.0	8.2	8.5	8.4	8.6	8.9	9.3	9.2	9.4	9.7	10.1	9.8	10.0	10.4	10.8	10.4	10.7	11.1	11.5	11.1	11.3	11.7	12.2	11.1	11.3	11.7	12.2	11.1	11.3	11.7	12.2	11.1	11.3	11.7	12.2	11.1	11.3	11.7	12.2																																																							
		HI PR	145	156	165	172	162	175	185	193	185	199	210	219	210	226	239	249	237	255	269	281	262	281	297	310	262	281	297	310	262	281	297	310	262	281	297	310	262	281	297	310																																																							
		LO PR	64	68	74	79	68	72	78	84	70	75	82	87	74	78	86	91	77	82	90	96	80	85	93	99	80	85	93	99	80	85	93	99	80	85	93	99	80	85	93	99																																																							
85	927	26.7	27.2	28.5	30.4	26.0	26.5	27.8	29.6	25.4	25.9	27.1	28.9	24.8	25.3	26.5	28.2	23.6	24.0	25.1	26.8	21.8	22.2	23.3	24.8	21.8	22.2	23.3	24.8	21.8	22.2	23.3	24.8	21.8	22.2	23.3	24.8	21.8	22.2	23.3	24.8																																																								
		S/T	0.90	0.87	0.78	0.64	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.90	0.73	1.00	1.00	0.90	0.73	1.00	1.00	0.90	0.73	1.00	1.00	0.90	0.73	1.00	1.00	0.90	0.73																																																							
		Delta T	24	23	22	19	24	24	22	19	24	24	22	19	24	24	23	20	23	24	24	19	22	22	18	22	22	21	18	22	22	21	18	22	22	21	18	22	22	21	18																																																								
		KW	2.04	2.08	2.15	2.22	2.19	2.24	2.31	2.38	2.33	2.38	2.45	2.53	2.45	2.50	2.58	2.66	2.55	2.60	2.69	2.78	2.64	2.69	2.78	2.87	2.64	2.69	2.78	2.87	2.64	2.69	2.78	2.87	2.64	2.69	2.78	2.87	2.64	2.69	2.78	2.87																																																							
		AMPS	7.6	7.8	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.9	9.6	9.9	10.2	10.6	10.2	10.5	10.8	11.3	10.9	11.1	11.5	11.9	10.9	11.1	11.5	11.9	10.9	11.1	11.5	11.9	10.9	11.1	11.5	11.9	10.9	11.1	11.5	11.9																																																							
		HI PR	142	153	161	168	159	171	181	189	181	195	206	215	206	222	234	244	232	250	264	275	256	276	291	304	256	276	291	304	256	276	291	304	256	276	291	304	256	276	291	304																																																							
		LO PR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97	78	83	91	97	78	83	91	97	78	83	91	97	78	83	91	97																																																							

COOLING PERFORMANCE DATA

GSH130301B*

EXPANDED PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130301BA / ARF303016** Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

		Outdoor Ambient Temperature												105												115											
		65						75						85						95						105						115					
IDB	Airflow	Entering Indoor Wet Bulb Temperature																																			
1173	MBh	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71								
	S/T	27.0	28.0	30.7	-	26.4	27.4	30.0	-	25.8	26.7	29.3	-	25.2	26.1	28.6	-	23.9	24.8	27.1	-	22.1	22.9	25.1	-	22.1	22.9	25.1	-								
	Delta T	16	14	10	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	15	13	10	-								
	KW	2.04	2.08	2.14	-	2.19	2.24	2.31	-	2.32	2.37	2.45	-	2.44	2.49	2.57	-	2.54	2.60	2.68	-	2.63	2.69	2.77	-	2.63	2.69	2.77	-								
	AMPS	7.6	7.7	8.0	-	8.2	8.4	8.7	-	8.9	9.1	9.4	-	9.5	9.8	10.1	-	10.1	10.4	10.8	-	10.8	11.0	11.4	-	10.8	11.0	11.4	-								
1050	HI PR	146	158	166	-	164	177	187	-	187	201	212	-	213	229	242	-	239	258	272	-	264	285	301	-	264	285	301	-								
	LO PR	64	68	74	-	68	72	79	-	70	75	82	-	74	79	86	-	77	82	90	-	80	85	93	-	80	85	93	-								
	MBh	26.6	27.6	30.3	-	26.0	27.0	29.5	-	25.4	26.3	28.8	-	24.8	25.7	28.1	-	23.5	24.4	26.7	-	21.8	22.6	24.8	-	21.8	22.6	24.8	-								
	S/T	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.82	0.69	0.48	-	0.82	0.69	0.48	-								
	Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-	16	14	10	-								
927	KW	2.03	2.07	2.13	-	2.18	2.22	2.29	-	2.31	2.36	2.43	-	2.43	2.48	2.56	-	2.53	2.58	2.67	-	2.61	2.67	2.76	-	2.61	2.67	2.76	-								
	AMPS	7.5	7.7	8.0	-	8.1	8.3	8.6	-	8.8	9.1	9.4	-	9.5	9.7	10.0	-	10.1	10.3	10.7	-	10.7	11.0	11.3	-	10.7	11.0	11.3	-								
	HI PR	145	156	165	-	163	176	185	-	186	200	211	-	211	227	240	-	238	256	270	-	263	283	298	-	263	283	298	-								
	LO PR	64	68	74	-	67	72	78	-	70	74	81	-	73	78	85	-	77	82	89	-	80	85	92	-	80	85	92	-								
	MBh	25.3	26.2	28.7	-	24.7	25.6	28.1	-	24.1	25.0	27.4	-	23.5	24.4	26.7	-	22.4	23.2	25.4	-	20.7	21.5	23.5	-	20.7	21.5	23.5	-								

75	1173	MBh	27.5	28.3	30.6	32.9	26.9	27.7	29.9	32.1	26.2	27.0	29.2	31.4	25.6	26.3	28.5	30.6	24.3	25.0	27.1	29.1	22.5	23.2	25.1	26.9	
		S/T	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.66	0.43	
		Delta T	18	17	14	10	19	17	14	10	19	17	14	10	19	17	14	10	18	17	14	10	17	16	13	9	
		KW	2.05	2.10	2.16	2.23	2.21	2.25	2.32	2.40	2.34	2.39	2.47	2.55	2.46	2.52	2.60	2.68	2.56	2.62	2.70	2.79	2.65	2.71	2.80	2.89	
		AMPS	7.6	7.8	8.1	8.4	8.3	8.5	8.7	9.1	9.0	9.2	9.5	9.9	9.6	9.9	10.2	10.6	10.2	10.5	10.9	11.3	10.9	11.1	11.5	12.0	
		HI PR	148	159	168	175	166	179	189	197	189	203	214	224	215	231	244	255	242	260	275	287	267	288	304	317	
		LO PR	65	69	75	80	68	73	79	85	71	76	83	88	75	79	87	92	78	83	91	97	81	86	94	100	
		1050	MBh	27.1	27.9	30.2	32.4	26.5	27.2	29.5	31.6	25.8	26.6	28.8	30.9	25.2	25.9	28.1	30.1	23.9	24.6	26.7	28.6	22.2	22.8	24.7	26.5
			S/T	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.94	0.84	0.63	0.41
			Delta T	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	19	18	15	10	18	17	14	9
KW	2.04		2.08	2.15	2.22	2.19	2.24	2.31	2.38	2.33	2.38	2.45	2.53	2.45	2.50	2.58	2.67	2.55	2.60	2.69	2.78	2.64	2.69	2.78	2.87		
AMPS	7.6		7.8	8.0	8.3	8.2	8.4	8.7	9.0	8.9	9.2	9.5	9.8	9.6	9.8	10.1	10.5	10.2	10.4	10.8	11.2	10.8	11.1	11.4	11.9		
HI PR	147		158	167	174	165	177	187	195	187	202	213	222	213	230	243	253	240	258	273	285	265	286	301	314		
LO PR	64		68	75	80	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	80	86	93	99		
927	MBh		25.7	26.5	28.7	30.8	25.1	25.9	28.0	30.1	24.5	25.3	27.3	29.4	23.9	24.6	26.7	28.6	22.7	23.4	25.3	27.2	21.1	21.7	23.5	25.2	
	S/T		0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.80	0.61	0.39	
	Delta T		20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	10	19	17	14	10	
	KW	2.01	2.05	2.11	2.18	2.16	2.21	2.27	2.35	2.29	2.34	2.41	2.49	2.41	2.46	2.54	2.62	2.51	2.56	2.64	2.73	2.59	2.65	2.74	2.83		
	AMPS	7.4	7.6	7.9	8.2	8.1	8.3	8.5	8.9	8.8	9.0	9.3	9.6	9.4	9.6	9.9	10.3	10.0	10.2	10.6	11.0	10.6	10.9	11.2	11.7		
	HI PR	144	155	164	171	161	174	184	191	184	198	209	218	209	225	238	248	235	253	267	279	260	280	295	308		
	LO PR	63	67	73	78	67	71	77	82	69	74	80	86	73	77	84	90	76	81	88	94	79	84	91	97		

COOLING PERFORMANCE DATA

GSH130301B*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130301BA/ AR*F303016**

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

		Outdoor Ambient Temperature										105									
		85										95									
		75										115									
IDB*	Airflow	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135
80	MBh	27.99	28.60	30.55	32.66	34.93	37.44	40.19	43.17	46.47	50.09	53.94	58.02	62.34	66.90	71.69	76.71	81.96	87.44	93.15	99.09
	ΔT	21	20	17	14	11	9	7	5	4	3	2	1	1	1	1	1	1	1	1	1
	ΔT	21	20	17	14	11	9	7	5	4	3	2	1	1	1	1	1	1	1	1	1
	KW	2.07	2.11	2.18	2.25	2.34	2.42	2.50	2.58	2.66	2.74	2.82	2.90	2.98	3.06	3.14	3.22	3.30	3.38	3.46	3.54
	AMPS	7.7	7.9	8.2	8.5	8.8	9.2	9.5	9.8	10.1	10.4	10.7	11.0	11.3	11.6	11.9	12.2	12.5	12.8	13.1	13.4
	HIPR	149	161	170	177	184	190	196	201	205	210	214	218	222	226	230	234	238	242	246	250
	LOPR	65	70	76	81	86	91	96	101	106	111	116	121	126	131	136	141	146	151	156	161
	MBh	27.6	28.2	30.1	32.2	34.5	37.0	39.7	42.6	45.7	49.0	52.5	56.2	60.1	64.2	68.5	73.0	77.7	82.6	87.7	93.0
	ΔT	22	21	18	15	12	10	8	6	5	4	3	2	1	1	1	1	1	1	1	1
	ΔT	22	21	18	15	12	10	8	6	5	4	3	2	1	1	1	1	1	1	1	1
927	MBh	26.2	26.8	28.6	30.6	32.8	35.3	38.0	40.9	44.0	47.3	50.8	54.5	58.4	62.5	66.8	71.3	76.0	80.9	86.0	91.3
	ΔT	22	21	19	15	12	10	8	6	5	4	3	2	1	1	1	1	1	1	1	1
	ΔT	22	21	19	15	12	10	8	6	5	4	3	2	1	1	1	1	1	1	1	1
	KW	2.03	2.07	2.13	2.20	2.28	2.36	2.44	2.52	2.60	2.68	2.76	2.84	2.92	3.00	3.08	3.16	3.24	3.32	3.40	3.48
	AMPS	7.5	7.7	8.0	8.3	8.6	8.9	9.2	9.5	9.8	10.1	10.4	10.7	11.0	11.3	11.6	11.9	12.2	12.5	12.8	13.1
	HIPR	145	156	165	172	179	185	191	196	201	205	210	214	218	222	226	230	234	238	242	246
	LOPR	64	68	74	79	84	89	94	99	104	109	114	119	124	129	134	139	144	149	154	159
	MBh	26.2	26.8	28.6	30.6	32.8	35.3	38.0	40.9	44.0	47.3	50.8	54.5	58.4	62.5	66.8	71.3	76.0	80.9	86.0	91.3
	ΔT	22	21	19	15	12	10	8	6	5	4	3	2	1	1	1	1	1	1	1	1
	ΔT	22	21	19	15	12	10	8	6	5	4	3	2	1	1	1	1	1	1	1	1

		Outdoor Ambient Temperature										105									
		85										95									
		75										115									
IDB*	Airflow	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135
85	MBh	28.47	29.03	30.40	32.43	34.93	37.44	40.19	43.17	46.47	50.09	53.94	58.02	62.34	66.90	71.69	76.71	81.96	87.44	93.15	99.09
	ΔT	22	22	20	18	15	12	10	8	6	5	4	3	2	1	1	1	1	1	1	1
	ΔT	22	22	20	18	15	12	10	8	6	5	4	3	2	1	1	1	1	1	1	1
	KW	2.09	2.13	2.19	2.26	2.34	2.42	2.50	2.58	2.66	2.74	2.82	2.90	2.98	3.06	3.14	3.22	3.30	3.38	3.46	3.54
	AMPS	7.8	8.0	8.2	8.5	8.8	9.1	9.4	9.7	10.0	10.3	10.6	10.9	11.2	11.5	11.8	12.1	12.4	12.7	13.0	13.3
	HIPR	151	162	171	179	186	192	197	201	205	210	214	218	222	226	230	234	238	242	246	250
	LOPR	66	70	77	82	87	92	97	102	107	112	117	122	127	132	137	142	147	152	157	162
	MBh	28.1	28.6	29.9	32.0	34.5	37.0	39.7	42.6	45.7	49.0	52.5	56.2	60.1	64.2	68.5	73.0	77.7	82.6	87.7	93.0
	ΔT	23	23	21	19	16	13	11	9	7	6	5	4	3	2	1	1	1	1	1	1
	ΔT	23	23	21	19	16	13	11	9	7	6	5	4	3	2	1	1	1	1	1	1
927	MBh	26.7	27.2	28.5	30.4	32.8	35.3	38.0	40.9	44.0	47.3	50.8	54.5	58.4	62.5	66.8	71.3	76.0	80.9	86.0	91.3
	ΔT	24	23	22	19	16	13	11	9	7	6	5	4	3	2	1	1	1	1	1	1
	ΔT	24	23	22	19	16	13	11	9	7	6	5	4	3	2	1	1	1	1	1	1
	KW	2.04	2.08	2.15	2.22	2.30	2.38	2.46	2.54	2.62	2.70	2.78	2.86	2.94	3.02	3.10	3.18	3.26	3.34	3.42	3.50
	AMPS	7.6	7.8	8.0	8.3	8.6	8.9	9.2	9.5	9.8	10.1	10.4	10.7	11.0	11.3	11.6	11.9	12.2	12.5	12.8	13.1
	HIPR	147	158	167	174	181	187	192	196	201	205	210	214	218	222	226	230	234	238	242	246
	LOPR	64	68	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
	MBh	26.7	27.2	28.5	30.4	32.8	35.3	38.0	40.9	44.0	47.3	50.8	54.5	58.4	62.5	66.8	71.3	76.0	80.9	86.0	91.3
	ΔT	24	23	22	19	16	13	11	9	7	6	5	4	3	2	1	1	1	1	1	1
	ΔT	24	23	22	19	16	13	11	9	7	6	5	4	3	2	1	1	1	1	1	1

Shaded area is AHRI Rating Conditions

IDB: Entering Indoor Dry Bulb Temperature

KW=Total system power

AMP=Outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

COOLING PERFORMANCE DATA

GSH130311A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130311A* / AWB36-XX / AWUF36XX1A*

		Outdoor Ambient Temperature																													
		65					75					85					95					105					115				
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
70	1173	MBh	26.5	27.4	30.0	-	25.8	26.8	29.3	-	25.2	26.1	28.6	-	24.6	25.5	28.0	-	23.4	24.2	26.6	-	21.7	22.4	24.6	-	21.7	22.4	24.6	-	
		S/T	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.83	0.69	0.48	-	0.85	0.71	0.49	-	0.89	0.74	0.51	-	0.89	0.75	0.52	-	0.89	0.75	0.52	-	
		Delta T	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	15	13	10	-	15	13	10	-	
		KW	1.81	1.85	1.91	-	1.96	2.00	2.07	-	2.09	2.13	2.21	-	2.20	2.25	2.33	-	2.30	2.35	2.43	-	2.38	2.44	2.52	-	2.38	2.44	2.52	-	
		AMPS	8.0	8.1	8.4	-	8.6	8.8	9.0	-	9.3	9.5	9.8	-	9.9	10.1	10.4	-	10.5	10.7	11.0	-	11.0	11.3	11.7	-	11.0	11.3	11.7	-	
	1050	HI PR	147	159	168	-	165	178	188	-	188	202	214	-	214	231	244	-	241	259	274	-	266	287	303	-	266	287	303	-	
		LO PR	61	65	71	-	65	69	75	-	67	72	78	-	71	75	82	-	74	79	86	-	77	82	89	-	77	82	89	-	
		MBh	26.1	27.0	29.6	-	25.5	26.4	28.9	-	24.9	25.8	28.2	-	24.2	25.1	27.5	-	23.0	23.9	26.2	-	21.3	22.1	24.2	-	21.3	22.1	24.2	-	
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-	
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-	16	14	10	-	
927	1050	KW	1.80	1.84	1.90	-	1.95	1.99	2.06	-	2.07	2.12	2.19	-	2.19	2.24	2.31	-	2.28	2.34	2.42	-	2.37	2.42	2.51	-	2.37	2.42	2.51	-	
		AMPS	7.9	8.1	8.3	-	8.5	8.7	9.0	-	9.2	9.4	9.7	-	9.8	10.0	10.3	-	10.4	10.6	11.0	-	11.0	11.2	11.6	-	11.0	11.2	11.6	-	
		HI PR	146	158	166	-	164	177	187	-	187	201	212	-	213	229	242	-	239	258	272	-	265	285	301	-	265	285	301	-	
		LO PR	61	65	71	-	64	69	75	-	67	71	78	-	70	75	82	-	74	78	86	-	76	81	89	-	76	81	89	-	
		MBh	24.8	25.7	28.1	-	24.2	25.1	27.5	-	23.6	24.5	26.8	-	23.0	23.9	26.2	-	21.9	22.7	24.9	-	20.3	21.0	23.0	-	20.3	21.0	23.0	-	
	927	S/T	0.71	0.60	0.41	-	0.74	0.62	0.43	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.82	0.68	0.47	-	0.82	0.68	0.47	-	
		DT	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-	16	14	11	-	
		KW	1.77	1.81	1.87	-	1.91	1.96	2.02	-	2.04	2.09	2.16	-	2.15	2.20	2.27	-	2.24	2.30	2.38	-	2.33	2.38	2.46	-	2.33	2.38	2.46	-	
		AMPS	7.8	8.0	8.2	-	8.4	8.6	8.8	-	9.0	9.3	9.5	-	9.6	9.8	10.2	-	10.2	10.4	10.8	-	10.8	11.0	11.4	-	10.8	11.0	11.4	-	
		HI PR	143	154	163	-	161	173	183	-	183	197	208	-	209	224	237	-	235	253	267	-	259	279	295	-	259	279	295	-	
	LO PR	60	64	69	-	63	67	73	-	66	70	76	-	69	73	80	-	72	77	84	-	75	80	87	-	75	80	87	-		
75	1173	MBh	26.9	27.7	30.0	32.2	26.3	27.1	29.3	31.4	25.7	26.4	28.6	30.7	25.0	25.8	27.9	29.9	23.8	24.5	26.5	28.4	22.0	22.7	24.5	26.3	22.0	22.7	24.5	26.3	
		S/T	0.88	0.79	0.60	0.38	0.92	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.97	0.87	0.66	0.42	1.00	0.90	0.68	0.44	1.00	0.91	0.69	0.44	1.00	0.91	0.69	0.44	
		Delta T	19	17	14	10	19	17	14	10	19	17	14	10	19	18	14	10	19	17	14	10	17	16	13	9	17	16	13	9	
		KW	1.83	1.87	1.93	1.99	1.97	2.02	2.09	2.16	2.11	2.15	2.23	2.30	2.22	2.27	2.35	2.43	2.32	2.37	2.45	2.54	2.40	2.46	2.54	2.63	2.40	2.46	2.54	2.63	
		AMPS	8.0	8.2	8.5	8.8	8.6	8.8	9.1	9.4	9.3	9.6	9.8	10.2	9.9	10.2	10.5	10.9	10.5	10.8	11.1	11.5	11.1	11.4	11.8	12.2	11.1	11.4	11.8	12.2	
	1050	HI PR	149	160	169	177	167	180	190	198	190	205	216	225	216	233	246	257	244	262	277	289	269	290	306	319	269	290	306	319	
		LO PR	62	66	72	77	66	70	76	81	68	72	79	84	72	76	83	89	75	80	87	93	78	83	90	96	78	83	90	96	
		MBh	26.5	27.3	29.5	31.7	25.9	26.7	28.9	31.0	25.3	26.0	28.2	30.2	24.7	25.4	27.5	29.5	23.4	24.1	26.1	28.0	21.7	22.3	24.2	26.0	21.7	22.3	24.2	26.0	
		S/T	0.85	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.42	0.97	0.87	0.66	0.42	
		Delta T	20	18	15	10	20	18	15	10	20	18	15	10	20	18.5	15	10	20	18	15	10	18	17	14	10	18	17	14	10	
927	1050	KW	1.82	1.86	1.92	1.98	1.96	2.01	2.07	2.15	2.09	2.14	2.21	2.29	2.21	2.26	2.34	2.42	2.30	2.36	2.44	2.52	2.39	2.44	2.53	2.62	2.39	2.44	2.53	2.62	
		AMPS	8.0	8.2	8.4	8.7	8.6	8.8	9.1	9.4	9.3	9.5	9.8	10.1	9.9	10.1	10.4	10.8	10.5	10.7	11.1	11.5	11.1	11.3	11.7	12.1	11.1	11.3	11.7	12.1	
		HI PR	148	159	168	175	166	179	189	197	189	203	215	224	215	231	244	255	242	260	275	287	267	288	304	317	267	288	304	317	
		LO PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	74	79	86	92	77	82	89	95	77	82	89	95	
		MBh	25.2	25.9	28.1	30.1	24.6	25.3	27.4	29.4	24.0	24.7	26.8	28.7	23.4	24.1	26.1	28.0	22.3	22.9	24.8	26.6	20.6	21.2	23.0	24.7	20.6	21.2	23.0	24.7	
	927	S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.58	0.38	0.89	0.80	0.60	0.39	0.92	0.83	0.62	0.40	0.93	0.83	0.63	0.41	0.93	0.83	0.63	0.41	
		Delta T	20	19	15	11	20	19	15	11	21	19	15	11	21	19	16	11	20	19	15	11	19	18	14	10	19	18	14	10	
		KW	1.79	1.83	1.89	1.95	1.93	1.97	2.04	2.11	2.06	2.10	2.17	2.25	2.17	2.22	2.29	2.37	2.26	2.32	2.40	2.48	2.35	2.40	2.48	2.35	2.40	2.48	2.35	2.40	
		AMPS	7.9	8.0	8.3	8.6	8.4	8.6	8.9	9.2	9.1	9.3	9.6	10.0	9.7	9.9	10.2	10.6	10.3	10.5	10.9	11.3	10.9	11.1	11.5	11.9	10.9	11.1	11.5	11.9	
		HI PR	145	156	165	172	163	175	185	193	185	199	210	219	211	227	239	250	237	255	269	281	262	282	298	310	262	282	298	310	
	LO PR	60	64	70	75	64	68	74	79	66	71	77	82	70	74	81	86	73	78	85	90	75	80	88	93	75	80	88	93		

Shaded area is ACCA (TVA) conditions
High and low pressures are measured at the liquid and suction service valves.
IDB: Entering Indoor Dry Bulb Temperature
KW=Total system power
AMPS=outdoor unit amps (comp.+fan)

COOLING PERFORMANCE DATA

GSH130311A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130311A* / AWB36-XX / AWUF36XX1A*

		Outdoor Ambient Temperature																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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IDB*	Airflow	Entering Indoor Wet Bulb Temperature																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143	147	151	155	159	163	167	171	175	179	183	187	191	195	199	203	207	211	215	219	223	227	231	235	239	243	247	251	255	259	263	267	271	275	279	283	287	291	295	299	303	307	311	315	319	323	327	331	335	339	343	347	351	355	359	363	367	371	375	379	383	387	391	395	399	403	407	411	415	419	423	427	431	435	439	443	447	451	455	459	463	467	471	475	479	483	487	491	495	499	503	507	511	515	519	523	527	531	535	539	543	547	551	555	559	563	567	571	575	579	583	587	591	595	599	603	607	611	615	619	623	627	631	635	639	643	647	651	655	659	663	667	671	675	679	683	687	691	695	699	703	707	711	715	719	723	727	731	735	739	743	747	751	755	759	763	767	771	775	779	783	787	791	795	799	803	807	811	815	819	823	827	831	835	839	843	847	851	855	859	863	867	871	875	879	883	887	891	895	899	903	907	911	915	919	923	927	931	935	939	943	947	951	955	959	963	967	971	975	979	983	987	991	995	999	1003	1007	1011	1015	1019	1023	1027	1031	1035	1039	1043	1047	1051	1055	1059	1063	1067	1071	1075	1079	1083	1087	1091	1095	1099	1103	1107	1111	1115	1119	1123	1127	1131	1135	1139	1143	1147	1151	1155	1159	1163	1167	1171	1175	1179	1183	1187	1191	1195	1199	1203	1207	1211	1215	1219	1223	1227	1231	1235	1239	1243	1247	1251	1255	1259	1263	1267	1271	1275	1279	1283	1287	1291	1295	1299	1303	1307	1311	1315	1319	1323	1327	1331	1335	1339	1343	1347	1351	1355	1359	1363	1367	1371	1375	1379	1383	1387	1391	1395	1399	1403	1407	1411	1415	1419	1423	1427	1431	1435	1439	1443	1447	1451	1455	1459	1463	1467	1471	1475	1479	1483	1487	1491	1495	1499	1503	1507	1511	1515	1519	1523	1527	1531	1535	1539	1543	1547	1551	1555	1559	1563	1567	1571	1575	1579	1583	1587	1591	1595	1599	1603	1607	1611	1615	1619	1623	1627	1631	1635	1639	1643	1647	1651	1655	1659	1663	1667	1671	1675	1679	1683	1687	1691	1695	1699	1703	1707	1711	1715	1719	1723	1727	1731	1735	1739	1743	1747	1751	1755	1759	1763	1767	1771	1775	1779	1783	1787	1791	1795	1799	1803	1807	1811	1815	1819	1823	1827	1831	1835	1839	1843	1847	1851	1855	1859	1863	1867	1871	1875	1879	1883	1887	1891	1895	1899	1903	1907	1911	1915	1919	1923	1927	1931	1935	1939	1943	1947	1951	1955	1959	1963	1967	1971	1975	1979	1983	1987	1991	1995	1999	2003	2007	2011	2015	2019	2023	2027	2031	2035	2039	2043	2047	2051	2055	2059	2063	2067	2071	2075	2079	2083	2087	2091	2095	2099	2103	2107	2111	2115	2119	2123	2127	2131	2135	2139	2143	2147	2151	2155	2159	2163	2167	2171	2175	2179	2183	2187	2191	2195	2199	2203	2207	2211	2215	2219	2223	2227	2231	2235	2239	2243	2247	2251	2255	2259	2263	2267	2271	2275	2279	2283	2287	2291	2295	2299	2303	2307	2311	2315	2319	2323	2327	2331	2335	2339	2343	2347	2351	2355	2359	2363	2367	2371	2375	2379	2383	2387	2391	2395	2399	2403	2407	2411	2415	2419	2423	2427	2431	2435	2439	2443	2447	2451	2455	2459	2463	2467	2471	2475	2479	2483	2487	2491	2495	2499	2503	2507	2511	2515	2519	2523	2527	2531	2535	2539	2543	2547	2551	2555	2559	2563	2567	2571	2575	2579	2583	2587	2591	2595	2599	2603	2607	2611	2615	2619	2623	2627	2631	2635	2639	2643	2647	2651	2655	2659	2663	2667	2671	2675	2679	2683	2687	2691	2695	2699	2703	2707	2711	2715	2719	2723	2727	2731	2735	2739	2743	2747	2751	2755	2759	2763	2767	2771	2775	2779	2783	2787	2791	2795	2799	2803	2807	2811	2815	2819	2823	2827	2831	2835	2839	2843	2847	2851	2855	2859	2863	2867	2871	2875	2879	2883	2887	2891	2895	2899	2903	2907	2911	2915	2919	2923	2927	2931	2935	2939	2943	2947	2951	2955	2959	2963	2967	2971	2975	2979	2983	2987	2991	2995	2999	3003	3007	3011	3015	3019	3023	3027	3031	3035	3039	3043	3047	3051	3055	3059	3063	3067	3071	3075	3079	3083	3087	3091	3095	3099	3103	3107	3111	3115	3119	3123	3127	3131	3135	3139	3143	3147	3151	3155	3159	3163	3167	3171	3175	3179	3183	3187	3191	3195	3199	3203	3207	3211	3215	3219	3223	3227	3231	3235	3239	3243	3247	3251	3255	3259	3263	3267	3271	3275	3279	3283	3287	3291	3295	3299	3303	3307	3311	3315	3319	3323	3327	3331	3335	3339	3343	3347	3351	3355	3359	3363	3367	3371	3375	3379	3383	3387	3391	3395	3399	3403	3407	3411	3415	3419	3423	3427	3431	3435	3439	3443	3447	3451	3455	3459	3463	3467	3471	3475	3479	3483	3487	3491	3495	3499	3503	3507	3511	3515	3519	3523	3527	3531	3535	3539	3543	3547	3551	3555	3559	3563	3567	3571	3575	3579	3583	3587	3591	3595	3599	3603	3607	3611	3615	3619	3623	3627	3631	3635	3639	3643	3647	3651	3655	3659	3663	3667	3671	3675	3679	3683	3687	3691	3695	3699	3703	3707	3711	3715	3719	3723	3727	3731	3735	3739	3743	3747	3751	3755	3759	3763	3767	3771	3775	3779	3783	3787	3791	3795	3799	3803	3807	3811	3815	3819	3823	3827	3831	3835	3839	3843	3847	3851	3855	3859	3863	3867	3871	3875	3879	3883	3887	3891	3895	3899	3903	3907	3911	3915	3919	3923	3927	3931	3935	3939	3943	3947	3951	3955	3959	3963	3967	3971	3975	3979	3983	3987	3991	3995	3999	4003	4007	4011	4015	4019	4023	4027	4031	4035	4039	4043	4047	4051	4055	4059	4063	4067	4071	4075	4079	4083	4087	4091	4095	4099	4103	4107	4111	4115	4119	4123	4127	4131	4135	4139	4143	4147	4151	4155	4159	4163	4167	4171	4175	4179	4183	4187	4191	4195	4199	4203	4207	4211	4215	4219	4223	4227	4231	4235	4239	4243	4247	4251	4255	4259	4263	4267	4271	4275	4279	4283	4287	4291	4295	4299	4303	4307	4311	4315	4319	4323	4327	4331	4335	4339	4343	4347	4351	4355	4359	4363	4367	4371	4375	4379	4383	4387	4391	4395	4399	4403	4407	4411	4415	4419	4423	4427	4431	4435	4439	4443	4447	4451	4455	4459	4463	4467	4471	4475	4479	4483	4487	4491	4495	4499	4503	4507	4511	4515	4519	4523	4527	4531	4535	4539	4543	4547	4551	4555	4559	4563	4567	4571	4575	4579	4583	4587	4591	4595	4599	4603	4607	4611	4615	4619	4623	4627	4631	4635	4639	4643	4647	4651	4655	4659	4663	4667	4671	4675	4679	4683	4687	4691	4695	4699	4703	4707	4711	4715	4719	4723	4727	4731	4735	4739	4743	4747	4751	4755	4759	4763	4767	4771	4775	4779	4783	4787	4791	4795	4799	4803	4807	4811	4815	4819	4823	4827	4831	4835	4839	4843	4847	4851	4855	4859	4863	4867	4871	4875	4879	4883	4887	4891	4895	4899	4903	4907	4911	4915	4919	4923	4927	4931	4935	4939	4943	4947	4951	4955	4959	4963	4967	4971	4975	4979	4983	4987	4991	4995	4999	5003	5007	5011	5015	5019	5023	5027	5031	5035	5039	5043	5047	5051	5055	5059	5063	5067	5071	5075	5079	5083	5087	5091	5095	5099	5103	5107	5111	5115	5119	5123	5127	5131	5135	5139	5143	5147	5151	5155	5159	5163	5167	5171	5175	5179	5183	5187	5191	5195	5199	5203	5207	5211	5215	5219	5223	5227	5231	5235	5239	5243	5247	5251	5255	5259	5263	5267	5271	5275	5279	5283	5287	5291	5295	5299	5303	5307

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130361** / ARUF49-00*1* / ARUF36421A*

		Outdoor Ambient Temperature										95										105										115									
		65					75					85					Entering Indoor Wet Bulb Temperature					95					105					115									
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71												
70	1425	MBh	33.8	35.0	38.4	-	33.0	34.2	37.5	-	32.2	33.4	36.6	-	31.4	32.6	35.7	-	29.9	31.0	33.9	-	27.7	28.7	31.4	-															
		S/T	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.80	0.67	0.47	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-															
		Delta T	17	14	11	-	17	14	11	-	17	14	11	-	17	15	11	-	17	14	11	-	16	13	10	-															
		KW	2.47	2.52	2.60	-	2.65	2.70	2.79	-	2.81	2.86	2.95	-	2.95	3.01	3.10	-	3.06	3.13	3.23	-	3.16	3.23	3.33	-															
		AMPS	9.2	9.4	9.7	-	9.9	10.1	10.5	-	10.7	11.0	11.3	-	11.5	11.7	12.1	-	12.2	12.5	12.9	-	12.9	13.2	13.6	-															
		HI PR	143	154	163	-	161	173	183	-	183	197	208	-	208	224	236	-	234	252	266	-	259	278	294	-															
	LO PR	65	69	76	-	69	73	80	-	72	76	83	-	75	80	87	-	79	84	91	-	81	87	95	-																
	1275	MBh	33.3	34.5	37.8	-	32.5	33.7	36.9	-	31.7	32.9	36.1	-	31.0	32.1	35.2	-	29.4	30.5	33.4	-	27.3	28.3	31.0	-															
		S/T	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.80	0.66	0.46	-	0.83	0.69	0.48	-	0.83	0.70	0.48	-															
		Delta T	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-															
KW		2.46	2.51	2.58	-	2.64	2.69	2.77	-	2.79	2.85	2.94	-	2.93	2.99	3.08	-	3.05	3.11	3.21	-	3.15	3.21	3.32	-																
AMPS		9.1	9.3	9.6	-	9.8	10.1	10.4	-	10.7	10.9	11.3	-	11.4	11.7	12.0	-	12.1	12.4	12.8	-	12.8	13.1	13.6	-																
HI PR		142	153	162	-	159	172	181	-	181	195	206	-	207	222	235	-	232	250	264	-	257	276	292	-																
1125	LO PR	65	69	75	-	68	73	79	-	71	76	82	-	75	79	87	-	78	83	91	-	81	86	94	-																
	MBh	31.6	32.8	35.9	-	30.9	32.0	35.1	-	30.2	31.3	34.3	-	29.4	30.5	33.4	-	28.0	29.0	31.7	-	25.9	26.8	29.4	-																
	S/T	0.69	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-																
	Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-																
	KW	2.42	2.47	2.54	-	2.60	2.65	2.73	-	2.75	2.81	2.89	-	2.88	2.94	3.03	-	3.00	3.06	3.16	-	3.10	3.16	3.26	-																
	AMPS	9.0	9.2	9.5	-	9.7	9.9	10.2	-	10.5	10.7	11.1	-	11.2	11.4	11.8	-	11.9	12.2	12.6	-	12.6	12.9	13.3	-																
75	1425	HI PR	139	150	158	-	156	168	178	-	178	191	202	-	202	218	230	-	228	245	259	-	252	271	286	-															
		LO PR	63	67	74	-	67	71	78	-	70	74	81	-	73	78	85	-	77	82	89	-	79	84	92	-															
		MBh	34.4	35.4	38.3	41.1	33.6	34.6	37.4	40.2	32.8	33.7	36.5	39.2	32.0	32.9	35.6	38.2	30.4	31.3	33.8	36.3	28.1	29.0	31.4	33.7															
		S/T	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.91	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.88	0.67	0.43															
		Delta T	19	18	14	10	19	18	15	10	19	18	15	10	19	18	15	10	19	18	14	10	18	17	14	9															
		KW	2.49	2.54	2.62	2.69	2.67	2.72	2.81	2.89	2.83	2.89	2.98	3.07	2.97	3.03	3.13	3.23	3.09	3.15	3.25	3.36	3.19	3.26	3.36	3.47															
1275	AMPS	9.3	9.5	9.8	10.1	10.0	10.2	10.5	10.9	10.8	11.1	11.4	11.9	11.6	11.8	12.2	12.7	12.3	12.6	13.0	13.5	13.0	13.3	13.8	14.3																
	HI PR	145	156	164	171	162	175	184	192	185	199	210	219	210	226	239	249	236	254	269	280	261	281	297	310																
	LO PR	66	70	76	81	70	74	81	86	72	77	84	89	76	81	88	94	80	85	92	98	82	88	96	102																
	MBh	33.9	34.9	37.7	40.5	33.1	34.1	36.9	39.6	32.3	33.2	36.0	38.6	31.5	32.4	35.1	37.7	29.9	30.8	33.3	35.8	27.7	28.5	30.9	33.2																
	S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41																
	Delta T	20	19	15	10	20	19	15	11	20	19	15	11	21	19	15	11	20	19	15	11	19	17	14	10																
1125	KW	2.48	2.53	2.60	2.68	2.66	2.71	2.79	2.88	2.81	2.87	2.96	3.05	2.95	3.01	3.11	3.21	3.07	3.14	3.23	3.34	3.17	3.24	3.34	3.45																
	AMPS	9.2	9.4	9.7	10.1	9.9	10.2	10.5	10.9	10.8	11.0	11.4	11.8	11.5	11.8	12.1	12.6	12.2	12.5	12.9	13.4	12.9	13.2	13.7	14.2																
	HI PR	144	155	163	170	161	173	183	191	183	197	208	217	209	225	237	247	235	253	267	278	259	279	295	307																
	LO PR	65	70	76	81	69	73	80	85	72	76	83	89	75	80	88	93	79	84	92	98	82	87	95	101																
	MBh	32.2	33.1	35.9	38.5	31.4	32.4	35.0	37.6	30.7	31.6	34.2	36.7	29.9	30.8	33.3	35.8	28.4	29.3	31.7	34.0	26.3	27.1	29.3	31.5																
	S/T	0.79	0.71	0.53	0.34	0.82	0.73	0.55	0.36	0.84	0.75	0.57	0.37	0.87	0.77	0.59	0.38	0.90	0.80	0.61	0.39	0.91	0.81	0.61	0.39																
70	1275	Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	21	19	16	11	20	18	15	10															
		KW	2.44	2.49	2.56	2.64	2.62	2.67	2.75	2.83	2.77	2.83	2.91	3.00	2.91	2.97	3.06	3.16	3.02	3.09	3.18	3.28	3.12	3.19	3.29	3.39															
		AMPS	9.0	9.2	9.5	9.9	9.7	10.0	10.3	10.7	10.6	10.8	11.2	11.6	11.3	11.5	11.9	12.4	12.0	12.3	12.7	13.2	12.7	13.0	13.4	13.9															
		HI PR	141	151	160	167	158	170	179	187	180	193	204	213	205	220	232	242	230	248	261	273	254	274	289	301															
		LO PR	64	68	74	79	68	72	79	84	70	75	82	87	74	79	86	91	77	82	90	96	80	85	93	99															
		LO PR	64	68	74	79	68	72	79	84	70	75	82	87	74	79	86	91	77	82	90	96	80	85	93	99															

Shaded area is ACCA (TVA) conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMP=outdoor unit amps (comp.+fan)
High and low pressures are measured at the liquid and suction service valves.

COOLING PERFORMANCE DATA

GSH130361A*/B*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130361** / ARUF49-00*-1* / ARUF36421A*

		Outdoor Ambient Temperature																																
		65					75					85					95					105					115							
IDB*	Airflow	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75			
80	1425	MBh	35.0	35.7	38.2	40.8	34.2	34.9	37.3	39.9	33.4	34.1	36.4	38.9	32.5	33.3	35.5	38.0	30.9	31.6	33.7	36.1	28.6	29.3	31.3	33.4	30.9	31.6	33.7	36.1	28.6	29.3	31.3	33.4
		S/T	0.94	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62
		Delta T	21	20	18	14	22	21	18	14	22	21	18	14	21	21	18	14	20	20	18	14	18	19	17	13	20	20	18	14	18	19	17	13
		KW	2.51	2.56	2.64	2.72	2.69	2.75	2.83	2.92	2.85	2.91	3.00	3.09	2.99	3.06	3.15	3.25	3.11	3.18	3.28	3.38	3.22	3.28	3.39	3.50	3.11	3.18	3.28	3.38	3.22	3.28	3.39	3.50
		AMPS	9.3	9.6	9.9	10.2	10.1	10.3	10.6	11.0	10.9	11.2	11.6	12.0	11.7	11.9	12.3	12.8	12.4	12.7	13.1	13.6	13.1	13.4	13.9	14.4	12.4	12.7	13.1	13.6	13.1	13.4	13.9	14.4
	1275	HI PR	146	157	166	173	164	176	186	194	186	201	212	221	212	228	241	252	239	257	271	283	264	284	300	313	239	257	271	283	264	284	300	313
		LO PR	66	71	77	82	70	75	82	87	73	78	85	90	77	82	89	95	80	85	93	99	83	88	97	103	80	85	93	99	83	88	97	103
		MBh	34.5	35.2	37.6	40.2	33.7	34.4	36.8	39.3	32.9	33.6	35.9	38.4	32.1	32.8	35.0	37.4	30.5	31.1	33.3	35.5	28.2	28.8	30.8	32.9	30.5	31.1	33.3	35.5	28.2	28.8	30.8	32.9
		S/T	0.90	0.85	0.69	0.52	0.94	0.88	0.72	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59
		Delta T	22	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	20	20	18	14	22	22	19	15	20	20	18	14
1125	1425	KW	2.50	2.55	2.62	2.70	2.68	2.73	2.81	2.90	2.84	2.89	2.98	3.08	2.98	3.04	3.13	3.23	3.10	3.16	3.26	3.37	3.20	3.27	3.37	3.48	3.10	3.16	3.26	3.37	3.20	3.27	3.37	3.48
		AMPS	9.3	9.5	9.8	10.2	10.0	10.2	10.6	11.0	10.9	11.1	11.5	11.9	11.6	11.9	12.3	12.7	12.3	12.6	13.0	13.5	13.0	13.4	13.8	14.3	12.3	12.6	13.0	13.5	13.0	13.4	13.8	14.3
		HI PR	145	156	165	172	163	175	185	193	185	199	210	219	211	227	240	250	237	255	270	281	262	282	298	311	237	255	270	281	262	282	298	311
		LO PR	66	70	77	82	70	74	81	86	72	77	84	90	76	81	88	94	80	85	93	99	83	88	96	102	80	85	93	99	83	88	96	102
	1275	MBh	32.7	33.5	35.7	38.2	32.0	32.7	34.9	37.3	31.2	31.9	34.1	36.4	30.5	31.1	33.3	35.5	28.9	29.6	31.6	33.8	26.8	27.4	29.3	31.3	28.9	29.6	31.6	33.8	26.8	27.4	29.3	31.3
		S/T	0.87	0.81	0.66	0.49	0.90	0.84	0.69	0.51	0.92	0.86	0.70	0.53	0.95	0.89	0.73	0.54	0.99	0.92	0.75	0.56	0.99	0.93	0.76	0.57	0.99	0.92	0.75	0.56	0.99	0.93	0.76	0.57
		Delta T	23	22	19	15	23	22	20	16	23	23	20	16	24	23	20	16	23	22	19	16	22	21	18	14	23	22	19	16	22	21	18	14
		KW	2.46	2.51	2.58	2.66	2.64	2.69	2.77	2.86	2.79	2.85	2.94	3.03	2.93	2.99	3.08	3.18	3.05	3.11	3.21	3.31	3.15	3.21	3.32	3.42	3.05	3.11	3.21	3.31	3.15	3.21	3.32	3.42
		AMPS	9.1	9.3	9.6	10.0	9.8	10.1	10.4	10.8	10.7	10.9	11.3	11.7	11.4	11.7	12.0	12.5	12.1	12.4	12.8	13.3	12.8	13.1	13.6	14.1	12.1	12.4	12.8	13.3	12.8	13.1	13.6	14.1
85	1425	HI PR	142	153	162	168	159	172	181	189	181	195	206	215	207	222	235	245	232	250	264	275	257	276	292	304	232	250	264	275	257	276	292	304
		LO PR	65	69	75	80	68	73	79	85	71	76	82	88	75	79	87	92	78	83	91	97	81	86	94	100	78	83	91	97	81	86	94	100
	1275	MBh	34.5	35.2	37.6	40.2	33.7	34.4	36.8	39.3	32.9	33.6	35.9	38.4	32.1	32.8	35.0	37.4	30.5	31.1	33.3	35.5	28.2	28.8	30.8	32.9	30.5	31.1	33.3	35.5	28.2	28.8	30.8	32.9
		S/T	0.90	0.85	0.69	0.52	0.94	0.88	0.72	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59
		Delta T	22	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	20	20	18	14	22	22	19	15	20	20	18	14
		KW	2.50	2.55	2.62	2.70	2.68	2.73	2.81	2.90	2.84	2.89	2.98	3.08	2.98	3.04	3.13	3.23	3.10	3.16	3.26	3.37	3.20	3.27	3.37	3.48	3.10	3.16	3.26	3.37	3.20	3.27	3.37	3.48
		AMPS	9.3	9.5	9.8	10.2	10.0	10.2	10.6	11.0	10.9	11.1	11.5	11.9	11.6	11.9	12.3	12.7	12.3	12.6	13.0	13.5	13.0	13.4	13.8	14.3	12.3	12.6	13.0	13.5	13.0	13.4	13.8	14.3

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130421A* / ARUF49-00*-1* / ARUF36421A*

		Outdoor Ambient Temperature																															
		65				75				85				95				105				115											
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71								
	1688	MBh	39.2	40.6	44.5	-	38.3	39.7	43.5	-	37.4	38.7	42.4	-	36.5	37.8	41.4	-	34.6	35.9	39.3	-	32.1	33.3	36.4	-							
		S/T	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.87	0.73	0.50	-	0.88	0.73	0.51	-							
		Delta T	16	14	11	-	17	14	11	-	17	14	11	-	17	14	11	-	16	14	11	-	15	13	10	-							
		KW	2.84	2.90	2.98	-	3.05	3.11	3.20	-	3.22	3.29	3.39	-	3.38	3.45	3.56	-	3.51	3.59	3.70	-	3.63	3.70	3.82	-							
		AMPS	10.6	10.8	11.2	-	11.4	11.7	12.1	-	12.4	12.7	13.1	-	13.2	13.6	14.0	-	14.1	14.4	14.9	-	14.9	15.3	15.8	-							
		HI PR	137	148	156	-	154	166	175	-	175	188	199	-	199	215	227	-	224	241	255	-	248	267	282	-							
	LO PR	60	64	70	-	64	68	74	-	66	70	77	-	70	74	81	-	73	78	85	-	75	80	88	-								
70	1500	MBh	38.1	39.4	43.2	-	37.2	38.5	42.2	-	36.3	37.6	41.2	-	35.4	36.7	40.2	-	33.6	34.9	38.2	-	31.2	32.3	35.4	-							
		S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.49	-							
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-							
		KW	2.82	2.88	2.96	-	3.02	3.08	3.17	-	3.20	3.26	3.36	-	3.35	3.42	3.53	-	3.49	3.56	3.67	-	3.60	3.68	3.79	-							
		AMPS	10.5	10.7	11.1	-	11.3	11.6	11.9	-	12.3	12.6	13.0	-	13.1	13.4	13.9	-	13.9	14.3	14.8	-	14.8	15.1	15.6	-							
		HI PR	136	146	154	-	152	164	173	-	173	187	197	-	197	212	224	-	222	239	252	-	245	264	279	-							
	LO PR	60	63	69	-	63	67	73	-	66	70	76	-	69	73	80	-	72	77	84	-	75	79	87	-								
	1313	MBh	35.1	36.4	39.9	-	34.3	35.6	39.0	-	33.5	34.7	38.0	-	32.7	33.9	37.1	-	31.0	32.2	35.2	-	28.8	29.8	32.7	-							
		S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.81	0.68	0.47	-							
		Delta T	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-							
		KW	2.76	2.82	2.90	-	2.96	3.01	3.10	-	3.13	3.19	3.28	-	3.28	3.34	3.45	-	3.40	3.47	3.58	-	3.51	3.59	3.70	-							
		AMPS	10.2	10.4	10.8	-	11.0	11.3	11.6	-	11.9	12.2	12.6	-	12.7	13.1	13.5	-	13.6	13.9	14.4	-	14.4	14.7	15.2	-							
		HI PR	132	142	150	-	148	159	168	-	168	181	191	-	191	206	218	-	215	232	245	-	238	256	270	-							
	LO PR	58	62	67	-	61	65	71	-	64	68	74	-	67	71	78	-	70	74	81	-	72	77	84	-								

Shaded area is ACCA (TVA) conditions
High and low pressures are measured at the liquid and suction service valves.
IDB: Entering Indoor Dry Bulb Temperature KW=Total system power
AMPS=outdoor unit amps (comp.+fan)

COOLING PERFORMANCE DATA

GSH130421A*

COOLING PERFORMANCE DATA

GSH130421A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL : GSH130421A* / ARUF49-00*-1* / ARUF36421A*

Outdoor Ambient Temperature																																					
65						75						85						95						105						115							
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71				
1688	MBh	40.6	41.5	44.3	47.3	39.6	40.5	43.3	46.2	38.7	39.5	42.2	45.1	37.7	38.6	41.2	44.0	35.9	36.6	39.1	41.8	33.2	33.9	36.3	38.8	30.2	31.0	33.5	36.2	39.0	41.8	33.2	33.9	36.3	38.8		
	S/T	0.95	0.90	0.73	0.54	1.00	0.93	0.76	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.84	0.63	0.95	0.90	0.73	0.54	1.00	0.93	0.76	0.56				
	Delta T	21	20	18	14	22	20	18	14	21	20	18	14	21	21	18	14	20	20	18	14	18	18	17	13	20	20	18	14	18	18	17	13				
	KW	2.89	2.94	3.03	3.12	3.09	3.15	3.25	3.35	3.27	3.34	3.44	3.55	3.43	3.50	3.61	3.73	3.57	3.64	3.76	3.88	3.69	3.76	3.88	4.01	3.57	3.64	3.76	3.88	4.01	4.14	3.57	3.64	3.76	3.88		
	AMPS	10.7	11.0	11.4	11.8	11.6	11.9	12.3	12.7	12.6	12.9	13.3	13.8	13.5	13.8	14.3	14.8	14.3	14.7	15.2	15.8	15.2	15.6	16.1	16.7	14.3	14.7	15.2	15.8	16.1	16.7	17.3	14.3	14.7	15.2	15.8	
	HIPR	140	151	159	166	157	169	178	186	179	192	203	212	203	219	231	241	229	246	260	271	253	272	287	300	229	246	260	271	253	272	287	300	229	246	260	271
	LOPR	62	65	71	76	65	69	75	80	68	72	78	84	71	75	82	88	74	79	86	92	77	82	89	95	74	79	86	92	77	82	89	95	74	79	86	95
1500	MBh	39.4	40.2	43.0	46.0	38.5	39.3	42.0	44.9	37.6	38.4	41.0	43.8	36.6	37.4	40.0	42.8	34.8	35.6	38.0	40.6	32.2	32.9	35.2	37.6	34.8	35.6	38.0	40.6	32.2	32.9	35.2	37.6	34.8	35.6	38.0	40.6
	S/T	0.91	0.85	0.70	0.52	0.94	0.89	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.98	0.80	0.60	0.97	0.91	0.74	0.55	1.00	0.94	0.76	0.57	1.01	0.95	0.77	0.58
	Delta T	22	21	18	15	22	21	19	15	22	21	19	15	22	21	19	15	21	21	18	15	20	20	17	14	22	21	18	15	20	20	17	14	22	21	18	15
	KW	2.87	2.92	3.01	3.10	3.07	3.13	3.22	3.32	3.25	3.31	3.42	3.52	3.41	3.48	3.58	3.70	3.54	3.62	3.73	3.85	3.66	3.73	3.85	3.98	3.54	3.62	3.73	3.85	3.66	3.73	3.85	3.98	3.54	3.62	3.73	3.85
	AMPS	10.7	10.9	11.3	11.7	11.5	11.8	12.2	12.6	12.5	12.8	13.2	13.7	13.4	13.7	14.1	14.7	14.2	14.6	15.0	15.6	15.1	15.4	15.9	16.5	14.2	14.6	15.0	15.6	15.1	15.4	15.9	16.5	14.2	14.6	15.0	15.6
	HIPR	139	149	157	164	156	167	177	184	177	190	201	210	210	217	229	239	227	244	258	269	250	269	285	297	227	244	258	269	250	269	285	297	227	244	258	269
	LOPR	61	65	71	75	64	68	75	80	67	71	78	83	70	75	82	87	74	78	85	91	76	81	88	94	74	78	85	91	76	81	88	94	74	78	85	94
1313	MBh	36.4	37.1	39.7	42.4	35.5	36.3	38.8	41.4	34.7	35.4	37.8	40.5	33.8	34.6	36.9	39.5	32.1	32.8	35.1	37.5	29.8	30.4	32.5	34.7	32.1	32.8	35.1	37.5	29.8	30.4	32.5	34.7	32.1	32.8	35.1	37.5
	S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.88	0.71	0.53	0.96	0.90	0.74	0.55	1.00	0.94	0.76	0.57	1.01	0.95	0.77	0.58	1.00	0.94	0.76	0.57	1.01	0.95	0.77	0.58	1.00	0.94	0.76	0.57
	Delta T	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	21	20	18	14	22	22	19	15	21	20	18	14	22	22	19	15
	KW	2.80	2.86	2.94	3.03	3.00	3.06	3.15	3.25	3.17	3.24	3.34	3.44	3.33	3.40	3.50	3.61	3.46	3.53	3.64	3.75	3.57	3.65	3.76	3.88	3.46	3.53	3.64	3.75	3.57	3.65	3.76	3.88	3.46	3.53	3.64	3.75
	AMPS	10.4	10.6	11.0	11.4	11.2	11.5	11.8	12.3	12.2	12.4	12.9	13.3	13.0	13.3	13.7	14.3	13.8	14.2	14.6	15.2	14.6	15.0	15.5	16.1	13.8	14.2	14.6	15.2	14.6	15.0	15.5	16.1	13.8	14.2	14.6	15.2
	HIPR	134	145	153	159	151	162	171	179	172	185	195	203	195	210	222	232	220	237	250	261	243	261	276	288	220	237	250	261	243	261	276	288	220	237	250	261
	LOPR	59	63	69	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	79	86	91	71	76	83	88	74	79	86	91	71	76	83	88

85	MBh	41.3	42.1	44.1	47.0	40.3	41.1	43.0	45.9	39.4	40.1	42.0	44.8	38.4	39.1	41.0	43.7	36.5	37.2	38.9	41.5	33.8	34.4	36.1	38.5	36.5	37.2	38.9	41.5	33.8	34.4
	S/T	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.99	0.81	1.00	1.00	1.00	0.81	1.00	1.00	0.99	0.81	1.00	1.00
	Delta T	22	22	21	18	22	22	21	18	21	22	21	18	21	21	21	18	20	20	21	18	18	19	20	17	20	20	21	18	18	19
	KW	2.91	2.96	3.05	3.14	3.12	3.18	3.27	3.37	3.30	3.37	3.47	3.58	3.46	3.53	3.64	3.76	3.60	3.67	3.79	3.91	3.72	3.79	3.91	4.04	3.60	3.67	3.79	3.91	3.72	3.79
	AMPS	10.8	11.1	11.5	11.9	11.7	12.0	12.4	12.9	12.7	13.0	13.5	14.0	13.6	13.9	14.4	14.9	14.5	14.8	15.3	15.9	15.3	15.7	16.2	16.9	14.5	14.8	15.3	15.9	15.3	15.7
	HIPR	141	152	161	168	159	171	180	188	180	194	205	214	205	221	234	244	231	249	263	274	255	275	290	303	231	249	263	274	255	275
	LOPR	62	66	72	77	66	70	76	81	68	73	79	84	72	76	83	89	75	80	87	93	78	83	90	96	75	80	87	93	78	83
	MBh	40.1	40.9	42.8	45.6	39.1	39.9	41.8	44.6	38.2	39.0	40.8	43.5	37.3	38.0	39.8	42.5	35.4	36.1	37.8	40.3	32.8	33.4	35.0	37.4	35.4	36.1	37.8	40.3	32.8	33.4
	S/T	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.98	0.88	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.95	0.77	1.00	1.00	0.95	0.77	1.00	1.00
	Delta T	23	23	22	19	24	23	22	19	23	23	22	19	23	23	22	19	22	22	22	19	20	20	20	18	22	22	22	19	20	20
	KW	2.89	2.94	3.03	3.12	3.09	3.15	3.25	3.35	3.27	3.34	3.44	3.55	3.43	3.50	3.61	3.73	3.57	3.64	3.76	3.88	3.69	3.76	3.88	4.01	3.57	3.64	3.76	3.88	3.69	3.76
1500	AMPS	10.7	11.0	11.4	11.8	11.6	11.9	12.3	12.7	12.6	12.9	13.3	13.8	13.5	13.8	14.3	14.8	14.3	14.7	15.2	15.8	15.2	15.6	16.1	16.7	14.3	14.7	15.2	15.8	15.2	15.6
	HIPR	140	151	159	166	157	169	178	186	179	192	203	212	203	219	231	241	229	246	260	271	253	272	287	300	229	246	260	271	253	272
	LOPR	62	65	71	76	65	69	75	80	68	72	78	84	71	75	82	88	74	79	86	92	77	82	89	95	74	79	86	92	77	82
	MBh	37.0	37.7	39.5	42.1	36.1	36.8	38.6	41.2	35.3	36.0	37.7	40.2	34.4	35.1	36.7	39.2	32.7	33.3	34.9	37.2	30.3	30.9	32.3	34.5	32.7	33.3	34.9	37.2	30.3	30.9
	S/T	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.75	1.00	1.00	0.91	0.74	1.00	1.00
	Delta T	24	23	22	19	24	24	22	19	24	24	22	19	24	24	23	20	23	23	22	19	21	22	21	18	23	23	22	19	21	22
1313	KW	2.82	2.88	2.96	3.05	3.02	3.08	3.17	3.27	3.20	3.26	3.36	3.47	3.35	3.42	3.53	3.64	3.49	3.56	3.67	3.78	3.60	3.67	3.79	3.91	3.49	3.56	3.67	3.78	3.60	3.67
	AMPS	10.5	10.7	11.1	11.5	11.3	11.6	11.9	12.4	12.3	12.6	13.0	13.5	13.1	13.4	13.9	14.4	13.9	14.3	14.8	15.3	14.8	15.1	15.6	16.2	13.9	14.3	14.8	15.3	14.8	15.1
	HIPR	136	146	154	161	152	164	173	181	173	186	197	205	197	212	224	234	222	239	252	263	245	264	279	291	222	239	252	263	245	264

COOLING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130481A* / ARUF61-00*.1* / ARUF48601A*

IDB*		Airflow	Outdoor Ambient Temperature																													
			65					75					85					95					105					115				
			Entering Indoor Wet Bulb Temperature																													
70	1800	MBh	44.1	45.7	50.1	-	43.1	44.6	48.9	-	42.0	43.6	47.7	-	41.0	42.5	46.6	-	39.0	40.4	44.3	-	36.1	37.4	41.0	-						
		S/T	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.81	0.67	0.47	-	0.83	0.70	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-						
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-						
		KW	3.22	3.28	3.37	-	3.44	3.51	3.61	-	3.64	3.71	3.82	-	3.81	3.89	4.01	-	3.96	4.04	4.17	-	4.09	4.17	4.30	-						
		AMPS	12.1	12.4	12.8	-	13.0	13.4	13.8	-	14.2	14.5	15.0	-	15.1	15.5	16.0	-	16.1	16.5	17.0	-	17.1	17.5	18.1	-						
	1600	HI PR	142	153	161	-	159	172	181	-	181	195	206	-	207	222	235	-	232	250	264	-	257	276	292	-						
		LO PR	64	68	74	-	67	72	78	-	70	75	81	-	74	78	86	-	77	82	90	-	80	85	93	-						
		MBh	42.8	44.4	48.6	-	41.8	43.3	47.5	-	40.8	42.3	46.4	-	39.8	41.3	45.2	-	37.8	39.2	43.0	-	35.0	36.3	39.8	-						
		S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-						
		Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	14	11	-						
1400	KW	3.20	3.26	3.35	-	3.42	3.48	3.58	-	3.61	3.68	3.79	-	3.78	3.86	3.98	-	3.93	4.01	4.13	-	4.06	4.14	4.27	-							
	AMPS	12.0	12.3	12.7	-	12.9	13.2	13.7	-	14.0	14.4	14.8	-	15.0	15.4	15.9	-	16.0	16.3	16.9	-	16.9	17.3	17.9	-							
	HI PR	141	151	160	-	158	170	179	-	180	193	204	-	205	220	232	-	230	248	261	-	254	274	289	-							
	LO PR	63	67	73	-	67	71	78	-	69	74	81	-	73	78	85	-	76	81	89	-	79	84	92	-							
	MBh	39.5	41.0	44.9	-	38.6	40.0	43.8	-	37.7	39.1	42.8	-	36.8	38.1	41.7	-	34.9	36.2	39.7	-	32.3	33.5	36.7	-							
	S/T	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-							
	Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-							
	KW	3.13	3.19	3.28	-	3.34	3.41	3.50	-	3.53	3.60	3.71	-	3.70	3.77	3.89	-	3.84	3.92	4.04	-	3.96	4.04	4.17	-							
	AMPS	11.7	11.9	12.3	-	12.6	12.9	13.3	-	13.7	14.0	14.4	-	14.6	14.9	15.4	-	15.5	15.9	16.4	-	16.4	16.8	17.4	-							
	HI PR	136	147	155	-	153	165	174	-	174	187	198	-	198	213	225	-	223	240	254	-	247	265	280	-							
LO PR	61	65	71	-	65	69	75	-	67	72	78	-	71	75	82	-	74	79	86	-	77	82	89	-								

75	1800	MBh	44.8	46.2	50.0	53.6	43.8	45.1	48.8	52.4	42.8	44.0	47.7	51.1	41.7	42.9	46.5	49.9	39.6	40.8	44.2	47.4	36.7	37.8	40.9	43.9	36.7	37.8	40.9	43.9
		S/T	0.86	0.77	0.58	0.38	0.89	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.89	0.67	0.43	0.99	0.89	0.67	0.43
		Delta T	20	18	15	10	20	18	15	10	20	18	15	10	20	19	15	11	20	18	15	10	19	17	14	10	19	17	14	10
		KW	3.24	3.30	3.40	3.50	3.47	3.54	3.64	3.75	3.67	3.74	3.85	3.97	3.84	3.92	4.04	4.16	3.99	4.07	4.20	4.33	4.12	4.21	4.34	4.47	4.12	4.21	4.34	4.47
		AMPS	12.2	12.5	12.9	13.4	13.2	13.5	13.9	14.4	14.3	14.6	15.1	15.7	15.3	15.6	16.2	16.8	16.2	16.6	17.2	17.9	17.2	17.6	18.2	18.9	17.2	17.6	18.2	18.9
	1600	HI PR	144	154	163	170	161	173	183	191	183	197	208	217	209	225	237	247	235	253	267	278	259	279	295	307	259	279	295	307
		LO PR	65	69	75	80	68	73	79	84	71	75	82	88	74	79	86	92	78	83	91	96	81	86	94	100	81	86	94	100
		MBh	43.5	44.8	48.5	52.1	42.5	43.8	47.4	50.9	41.5	42.7	46.3	49.7	40.5	41.7	45.1	48.4	38.5	39.6	42.9	46.0	35.6	36.7	39.7	42.6	35.6	36.7	39.7	42.6
		S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.94	0.84	0.64	0.41	0.94	0.84	0.64	0.41
		Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10	19	18	15	10
1400	1800	KW	3.22	3.28	3.37	3.47	3.44	3.51	3.61	3.72	3.64	3.71	3.82	3.94	3.81	3.89	4.01	4.13	3.96	4.04	4.17	4.30	4.09	4.17	4.30	4.44	4.09	4.17	4.30	4.44
		AMPS	12.1	12.4	12.8	13.2	13.0	13.4	13.8	14.3	14.2	14.5	15.0	15.5	15.1	15.5	16.0	16.6	16.1	16.5	17.0	17.7	17.1	17.5	18.1	18.7	17.1	17.5	18.1	18.7
		HI PR	142	153	162	168	159	172	181	189	181	195	206	215	207	222	235	245	232	250	264	275	257	276	292	304	257	276	292	304
		LO PR	64	68	74	79	68	72	78	83	70	75	81	87	74	78	86	91	77	82	90	96	80	85	93	99	80	85	93	99
		MBh	40.2	41.4	44.8	48.1	39.3	40.4	43.7	46.9	38.3	39.5	42.7	45.8	37.4	38.5	41.7	44.7	35.5	36.6	39.6	42.5	32.9	33.9	36.7	39.3	32.9	33.9	36.7	39.3
	1600	S/T	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.81	0.62	0.40	0.91	0.81	0.62	0.40
		Delta T	21	19	16	11	21	20	16	11	21	20	16	11	21	20	16	11	21	19	16	11	20	18	15	10	20	18	15	10
		KW	3.15	3.21	3.30	3.40	3.37	3.43	3.53	3.64	3.56	3.63	3.74	3.85	3.73	3.80	3.92	4.04	3.87	3.95	4.07	4.20	3.99	4.08	4.20	4.33	3.99	4.08	4.20	4.33
		AMPS	11.8	12.0	12.4	12.9	12.7	13.0	13.4	13.9	13.8	14.1	14.6	15.1	14.7	15.1	15.6	16.2	15.7	16.0	16.6	17.2	16.6	17.0	17.6	18.2	16.6	17.0	17.6	18.2
		HI PR	138	148	157	163	155	166	176	183	176	189	200	209	200	216	228	238	225	243	256	267	249	268	283	295	249	268	283	295
	LO PR	62	66	72	77	65	70	76	81	86	72	79	84	89	71	76	83	88	75	80	87	93	77	82	90	96	77	82	90	96

Shaded area is ACCA (TVA) conditions

IDB: Entering Indoor Dry Bulb Temperature

KW=Total system power

AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

COOLING PERFORMANCE DATA

GSH130481A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130481A* / ARUF61-00*.1* / ARUF48601A*

		Outdoor Ambient Temperature																																
		65					75					85					95					105					115							
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
	1800	MBh	45.6	46.6	49.8	53.3	44.6	45.6	48.7	52.0	43.5	44.5	47.5	50.8	42.5	43.4	46.4	49.5	40.3	41.2	44.0	47.1	37.4	38.2	40.8	43.6	37.4	38.2	40.8	43.6	37.4	38.2	40.8	43.6
		S/T	0.95	0.89	0.72	0.54	1.00	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62
		Delta T	22	21	18	15	23	21	19	15	22	21	19	15	22	22	19	15	21	21	18	15	19	19	17	14	19	19	18	15	19	19	17	14
		KW	3.27	3.33	3.42	3.52	3.49	3.56	3.67	3.78	3.69	3.77	3.88	4.00	3.87	3.95	4.07	4.20	4.02	4.11	4.23	4.37	4.15	4.24	4.37	4.51	4.15	4.24	4.37	4.51	4.15	4.24	4.37	4.51
		AMPS	12.3	12.6	13.0	13.5	13.3	13.6	14.0	14.6	14.4	14.8	15.3	15.8	15.4	15.8	16.3	16.9	16.4	16.8	17.4	18.0	17.4	17.8	18.4	19.1	17.4	17.8	18.4	19.1	17.4	17.8	18.4	19.1
		HIPR	145	156	165	172	163	175	185	193	185	199	210	219	211	227	240	250	237	255	269	281	262	282	298	311	262	282	298	311	262	282	298	311
		LO PR	65	69	76	81	69	73	80	85	72	76	83	89	75	80	87	93	79	84	92	97	81	87	95	101	81	87	95	101	81	87	95	101
80	1600	MBh	44.3	45.3	48.4	51.7	43.3	44.2	47.3	50.5	42.3	43.2	46.1	49.3	41.2	42.1	45.0	48.1	39.2	40.0	42.8	45.7	36.3	37.1	39.6	42.3	36.3	37.1	39.6	42.3	36.3	37.1	39.6	42.3
		S/T	0.90	0.85	0.69	0.51	0.94	0.88	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.56	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59	1.00	0.97	0.78	0.59	1.00	0.97	0.79	0.59
		Delta T	23	22	19	15	23	22	19	15	23	22	19	16	23	22	20	16	23	22	19	15	21	21	18	14	21	21	19	15	21	21	18	14
		KW	3.24	3.30	3.40	3.50	3.47	3.54	3.64	3.75	3.67	3.74	3.85	3.97	3.84	3.92	4.04	4.17	3.99	4.07	4.20	4.33	4.12	4.21	4.34	4.47	4.12	4.21	4.34	4.47	4.12	4.21	4.34	4.47
		AMPS	12.2	12.5	12.9	13.4	13.2	13.5	13.9	14.4	14.3	14.6	15.1	15.7	15.3	15.6	16.2	16.8	16.3	16.6	17.2	17.9	17.2	17.6	18.2	18.9	17.2	17.6	18.2	18.9	17.2	17.6	18.2	18.9
		HIPR	144	155	163	170	161	173	183	191	183	197	208	217	209	225	237	247	235	253	267	278	259	279	295	307	259	279	295	307	259	279	295	307
		LO PR	65	69	75	80	68	73	79	84	71	75	82	88	74	79	86	92	78	83	91	96	81	86	94	100	81	86	94	100	81	86	94	100
	1400	MBh	40.9	41.8	44.7	47.7	39.9	40.8	43.6	46.6	39.0	39.8	42.6	45.5	38.0	38.9	41.5	44.4	36.1	36.9	39.5	42.2	33.5	34.2	36.6	39.1	33.5	34.2	36.6	39.1	33.5	34.2	36.6	39.1
		S/T	0.87	0.82	0.66	0.50	0.90	0.85	0.69	0.51	0.92	0.87	0.71	0.53	0.95	0.90	0.73	0.54	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57	1.00	0.94	0.76	0.57	1.00	0.94	0.76	0.57
		Delta T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15	22	21	18	15	22	21	18	15
		KW	3.17	3.23	3.32	3.42	3.39	3.46	3.56	3.66	3.58	3.66	3.76	3.88	3.75	3.83	3.95	4.07	3.90	3.98	4.10	4.23	4.03	4.11	4.23	4.37	4.03	4.11	4.23	4.37	4.03	4.11	4.23	4.37
		AMPS	11.9	12.1	12.5	13.0	12.8	13.1	13.5	14.0	13.9	14.2	14.7	15.3	14.9	15.2	15.7	16.3	15.8	16.2	16.7	17.4	16.7	17.1	17.7	18.4	16.7	17.1	17.7	18.4	16.7	17.1	17.7	18.4
		HIPR	139	150	158	165	156	168	178	185	178	191	202	211	202	218	230	240	228	245	259	270	252	271	286	298	252	271	286	298	252	271	286	298
		LO PR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97	78	83	91	97	78	83	91	97

85	1800	MBh	46.4	47.3	49.6	52.9	45.4	46.2	48.4	51.7	44.3	45.1	47.3	50.4	43.2	44.0	46.1	49.2	41.0	41.8	43.8	46.7	38.0	38.8	40.6	43.3
		S/T	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80
		Delta T	24	23	22	19	23	23	22	19	23	23	22	19	22	22	22	19	21	21	22	19	19	20	21	18
		KW	3.29	3.35	3.45	3.55	3.52	3.59	3.69	3.81	3.72	3.80	3.91	4.03	3.90	3.98	4.10	4.23	4.05	4.14	4.27	4.40	4.19	4.27	4.41	4.55
		AMPS	12.4	12.7	13.1	13.6	13.4	13.7	14.2	14.7	14.6	14.9	15.4	16.0	15.6	15.9	16.5	17.1	16.6	17.0	17.5	18.2	17.5	18.0	18.6	19.3
		HIPR	146	158	166	174	164	177	187	195	187	201	212	222	213	229	242	252	239	258	272	284	265	285	301	314
		LOPR	66	70	76	81	70	74	81	86	72	77	84	89	76	81	88	94	80	85	92	98	82	88	96	102
1600	MBh	45.1	46.0	48.1	51.4	44.0	44.9	47.0	50.2	43.0	43.8	45.9	49.0	41.9	42.8	44.8	47.8	39.8	40.6	42.5	45.4	36.9	37.6	39.4	42.0	
	S/T	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77	
	Delta T	25	24	23	20	25	24	23	20	25	24	23	20	24	25	23	20	23	23	23	20	21	22	21	19	
	KW	3.27	3.33	3.42	3.52	3.49	3.56	3.67	3.78	3.69	3.77	3.88	4.00	3.87	3.95	4.07	4.20	4.02	4.11	4.23	4.37	4.15	4.24	4.37	4.51	
	AMPS	12.3	12.6	13.0	13.5	13.3	13.6	14.0	14.6	14.4	14.8	15.3	15.8	15.4	15.8	16.3	16.9	16.4	16.8	17.4	18.0	17.4	17.8	18.4	19.1	
	HIPR	145	156	165	172	163	175	185	193	185	199	210	219	211	227	240	250	237	255	269	281	262	282	298	311	
	LOPR	65	69	76	81	69	73	80	85	72	76	83	89	75	80	87	93	79	84	92	97	81	87	95	101	
1400	MBh	41.6	42.4	44.4	47.4	40.6	41.4	43.4	46.3	39.7	40.4	42.4	45.2	38.7	39.5	41.3	44.1	36.8	37.5	39.3	41.9	34.1	34.7	36.4	38.8	
	S/T	0.91	0.88	0.79	0.64	0.95	0.91	0.82	0.67	0.97	0.94	0.84	0.68	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.91	0.74	
	Delta T	25	25	23	20	25	25	23	20	25	25	23	20	25	25	24	20	24	25	23	20	22	23	22	19	
	KW	3.19	3.26	3.35	3.45	3.42	3.48	3.58	3.69	3.61	3.68	3.79	3.91	3.78	3.86	3.98	4.10	3.93	4.01	4.13	4.26	4.06	4.14	4.27	4.40	
	AMPS	12.0	12.3	12.6	13.1	12.9	13.2	13.7	14.2	14.0	14.4	14.8	15.4	15.0	15.4	15.9	16.5	15.9	16.3	16.9	17.5	16.9	17.3	17.9	18.6	
	HIPR	141	151	160	167	158	170	179	187	180	193	204	213	204	220	232	242	230	248	261	273	254	273	289	301	
	LOPR	63	67	73	78	67	71	78	83	69	74	81	86	73	78	85	90	76	81	89	95	79	84	92	98	

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130601A* / ARUF61-00*.1* / ARUF48601A*

			Outdoor Ambient Temperature																													
			65					75					85					95					105					115				
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
70	2025	MBh	54.4	56.4	61.8	-	53.1	55.1	60.3	-	51.9	53.7	58.9	-	50.6	52.4	57.5	-	48.1	49.8	54.6	-	44.5	46.1	50.6	-	44.5	46.1	50.6	-		
		S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-	0.83	0.69	0.48	-		
		Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-		
		KW	3.84	3.92	4.03	-	4.12	4.20	4.32	-	4.36	4.45	4.58	-	4.57	4.67	4.81	-	4.75	4.85	5.00	-	4.91	5.01	5.17	-	4.91	5.01	5.17	-		
		AMPS	13.8	14.1	14.6	-	14.9	15.2	15.7	-	16.2	16.6	17.1	-	17.3	17.7	18.3	-	18.4	18.8	19.5	-	19.5	20.0	20.6	-	19.5	20.0	20.6	-		
	1800	HI PR	140	151	159	-	157	169	179	-	179	193	204	-	204	220	232	-	229	247	261	-	254	273	288	-	254	273	288	-		
		LO PR	59	63	68	-	62	66	72	-	65	69	75	-	68	72	79	-	71	76	82	-	73	78	85	-	73	78	85	-		
		MBh	52.8	54.7	60.0	-	51.6	53.5	58.6	-	50.3	52.2	57.2	-	49.1	50.9	55.8	-	46.7	48.4	53.0	-	43.2	44.8	49.1	-	43.2	44.8	49.1	-		
		S/T	0.69	0.58	0.40	-	0.72	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.79	0.66	0.46	-	0.79	0.66	0.46	-		
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	17	15	11	-		
1575	KW	3.81	3.89	4.00	-	4.09	4.17	4.29	-	4.32	4.41	4.55	-	4.54	4.63	4.77	-	4.72	4.81	4.96	-	4.87	4.97	5.13	-	4.87	4.97	5.13	-			
	AMPS	13.7	14.0	14.4	-	14.8	15.1	15.6	-	16.0	16.4	17.0	-	17.1	17.5	18.1	-	18.2	18.7	19.3	-	19.3	19.8	20.5	-	19.3	19.8	20.5	-			
	HI PR	139	150	158	-	156	168	177	-	177	191	202	-	202	217	230	-	227	245	258	-	251	270	285	-	251	270	285	-			
	LO PR	58	62	68	-	61	65	71	-	64	68	74	-	67	71	78	-	70	75	82	-	73	77	84	-	73	77	84	-			
	MBh	48.7	50.5	55.3	-	47.6	49.3	54.1	-	46.5	48.2	52.8	-	45.3	47.0	51.5	-	43.1	44.6	48.9	-	39.9	41.4	45.3	-	39.9	41.4	45.3	-			

75	2025	MBh	55.3	56.9	61.6	66.2	54.0	55.6	60.2	64.6	52.7	54.3	58.8	63.1	51.4	53.0	57.3	61.5	48.9	50.3	54.5	58.5	45.3	46.6	50.5	54.2	45.3	46.6	50.5	54.2	
		S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.94	0.84	0.64	0.41	0.94	0.84	0.64	0.41	
		Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10	19	18	15	10	
		KW	3.87	3.95	4.06	4.18	4.15	4.23	4.36	4.49	4.39	4.48	4.62	4.76	4.61	4.70	4.85	5.00	4.79	4.89	5.04	5.21	4.95	5.05	5.21	5.38	4.95	5.05	5.21	5.38	
		AMPS	13.9	14.2	14.7	15.2	15.0	15.4	15.9	16.5	16.3	16.7	17.3	17.9	17.4	17.9	18.5	19.2	18.6	19.0	19.7	20.4	19.7	20.2	20.8	21.6	19.7	20.2	20.8	21.6	
	1800	HI PR	142	153	161	168	159	171	181	189	181	195	206	214	206	222	234	244	232	249	263	275	256	276	291	304	256	276	291	304	
		LO PR	59	63	69	73	63	67	73	78	65	69	76	81	68	73	80	85	72	76	83	89	74	79	86	92	74	79	86	92	
		MBh	53.7	55.3	59.8	64.2	52.4	54.0	58.4	62.7	51.2	52.7	57.1	61.2	50.0	51.4	55.7	59.7	47.5	48.9	52.9	56.8	44.0	45.3	49.0	52.6	44.0	45.3	49.0	52.6	
		S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39	0.90	0.81	0.61	0.39	
		Delta T	22	20	16	11	22	20	16	11	22	20	16	11	22	20	17	11	22	20	16	11	20	19	15	11	20	19	15	11	
1575	2025	KW	3.84	3.92	4.03	4.15	4.12	4.20	4.32	4.46	4.36	4.45	4.58	4.73	4.57	4.67	4.81	4.96	4.75	4.85	5.00	5.16	4.91	5.01	5.17	5.34	4.91	5.01	5.17	5.34	
		AMPS	13.8	14.1	14.6	15.1	14.9	15.2	15.7	16.3	16.2	16.6	17.1	17.8	17.3	17.7	18.3	19.0	18.4	18.8	19.5	20.2	19.5	20.0	20.6	21.4	19.5	20.0	20.6	21.4	
		HI PR	140	151	160	166	158	170	179	187	179	193	204	212	204	220	232	242	230	247	261	272	254	273	288	301	254	273	288	301	
		LO PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	82	88	73	78	85	91	73	78	85	91	
		MBh	49.6	51.0	55.2	59.3	48.4	49.8	53.9	57.9	47.3	48.7	52.7	56.5	46.1	47.5	51.4	55.1	43.8	45.1	48.8	52.4	40.6	41.8	45.2	48.5	40.6	41.8	45.2	48.5	
	1800	S/T	0.76	0.68	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.38	0.87	0.78	0.59	0.38	0.87	0.78	0.59	0.38	
		Delta T	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	11	21	19	16	11	21	19	16	11	
		KW	3.76	3.83	3.94	4.06	4.02	4.10	4.23	4.35	4.26	4.34	4.48	4.61	4.46	4.56	4.70	4.84	4.64	4.74	4.88	5.04	4.79	4.89	5.05	5.21	4.79	4.89	5.05	5.21	
		AMPS	13.4	13.7	14.2	14.7	14.5	14.8	15.3	15.9	15.7	16.1	16.6	17.3	16.8	17.2	17.8	18.5	17.9	18.3	18.9	19.7	19.0	19.4	20.1	20.8	19.0	19.4	20.1	20.8	
		HI PR	136	147	155	161	153	164	174	181	174	187	197	206	198	213	225	235	223	240	253	264	246	265	280	292	246	265	280	292	
	LO PR	57	61	66	71	60	64	70	74	63	67	73	77	66	70	76	81	86	69	73	80	85	71	76	83	88	71	76	83	88	

Shaded area is ACCA (TVA) conditions
High and low pressures are measured at the liquid and suction service valves.

IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMPS=outdoor unit amps (comp.+fan)

COOLING PERFORMANCE DATA

GSH130601A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130601A* / ARUF61-00*-1* / ARUF48601A*

		Outdoor Ambient Temperature										105										115																			
		65					75					85					95																								
IDB*	Airflow	Entering Indoor Wet Bulb Temperature										95										105										115									
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71								
80	2025	MBh	56.3	57.5	61.5	65.7	55.0	56.2	60.0	64.2	53.7	54.8	58.6	62.6	52.4	53.5	57.2	61.1	49.7	50.8	54.3	58.1	46.1	47.1	50.3	53.8	46.1	47.1	50.3	53.8	46.1	47.1	50.3	53.8							
		S/T	0.90	0.85	0.69	0.51	0.94	0.88	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.56	1.00	0.96	0.78	0.59	1.00	1.00	0.79	0.59	1.00	1.00	0.79	0.59	1.00	1.00	0.79	0.59							
		Delta T	23	22	19	15	23	22	19	16	23	22	19	16	24	23	20	16	23	22	19	15	21	21	18	14	21	21	18	14	21	21	18	14							
		KW	3.90	3.98	4.09	4.22	4.18	4.26	4.39	4.53	4.43	4.52	4.66	4.80	4.64	4.74	4.89	5.04	4.83	4.93	5.09	5.25	4.99	5.09	5.26	5.43	4.99	5.09	5.26	5.43	4.99	5.09	5.26	5.43							
		AMPS	14.0	14.4	14.8	15.4	15.2	15.5	16.0	16.6	16.5	16.9	17.4	18.1	17.6	18.0	18.6	19.3	18.7	19.2	19.8	20.6	19.9	20.3	21.0	21.8	19.9	20.3	21.0	21.8	19.9	20.3	21.0	21.8							
		HI PR	143	154	163	170	161	173	183	190	183	197	208	217	208	224	237	247	234	252	266	278	278	259	278	294	307	259	278	294	307	259	278	294	307						
		LO PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93	75	80	87	93	75	80	87	93							
1800		MBh	54.7	55.8	59.7	63.8	53.4	54.5	58.3	62.3	52.1	53.2	56.9	60.8	50.8	51.9	55.5	59.3	48.3	49.4	52.7	56.4	44.7	45.7	48.8	52.2	44.7	45.7	48.8	52.2	44.7	45.7	48.8	52.2							
		S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.89	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56	0.99	0.93	0.75	0.56	0.99	0.93	0.75	0.56							
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	25	23	20	16	24	23	20	16	23	22	19	15	23	22	19	15	23	22	19	15							
		KW	3.87	3.95	4.06	4.19	4.15	4.23	4.36	4.49	4.39	4.48	4.62	4.76	4.61	4.70	4.85	5.00	4.79	4.89	5.04	5.21	4.95	5.05	5.21	5.38	4.95	5.05	5.21	5.38	4.95	5.05	5.21	5.38							
		AMPS	13.9	14.2	14.7	15.2	15.0	15.4	15.9	16.5	16.3	16.7	17.3	17.9	17.4	17.9	18.5	19.2	18.6	19.0	19.7	20.4	19.7	20.2	20.8	21.6	19.7	20.2	20.8	21.6	19.7	20.2	20.8	21.6							
		HI PR	142	153	161	168	159	171	181	189	181	195	206	214	206	222	234	244	232	250	263	275	256	276	291	304	256	276	291	304	256	276	291	304							
		LO PR	59	63	69	73	63	67	73	78	65	69	76	81	68	73	80	85	72	76	83	89	74	79	86	92	74	79	86	92	74	79	86	92							
1575		MBh	50.4	51.5	55.1	58.9	49.3	50.3	53.8	57.5	48.1	49.1	52.5	56.1	46.9	47.9	51.2	54.8	44.6	45.6	48.7	52.0	41.3	42.2	45.1	48.2	41.3	42.2	45.1	48.2	41.3	42.2	45.1	48.2							
		S/T	0.83	0.78	0.63	0.47	0.86	0.81	0.66	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.89	0.72	0.54	0.95	0.89	0.73	0.54	0.95	0.89	0.73	0.54	0.95	0.89	0.73	0.54							
		Delta T	24	23	20	16	25	24	21	16	25	24	21	16	25	24	21	17	25	24	20	16	23	22	19	15	23	22	19	15	23	22	19	15							
		KW	3.79	3.86	3.97	4.09	4.05	4.13	4.26	4.39	4.29	4.38	4.51	4.65	4.50	4.59	4.73	4.88	4.68	4.78	4.92	5.08	4.83	4.93	5.09	5.25	4.83	4.93	5.09	5.25	4.83	4.93	5.09	5.25							
		AMPS	13.5	13.8	14.3	14.8	14.6	15.0	15.5	16.0	15.9	16.3	16.8	17.4	17.0	17.4	18.0	18.6	18.1	18.5	19.1	19.8	19.1	19.6	20.3	21.0	19.1	19.6	20.3	21.0	19.1	19.6	20.3	21.0							
		HI PR	138	148	156	163	154	166	175	183	176	189	199	208	200	215	227	237	225	242	256	267	248	267	282	295	248	267	282	295	248	267	282	295							
		LO PR	58	61	67	71	61	65	71	75	63	67	73	78	66	71	77	82	70	74	81	86	72	77	84	89	72	77	84	89	72	77	84	89							

		85																																
2025	MBh	57.3	58.4	61.1	65.2	55.9	57.0	59.7	63.7	54.6	55.7	58.3	62.2	53.3	54.3	56.9	60.7	50.6	51.6	54.0	57.6	46.9	47.8	50.1	53.4	55.9	57.0	59.7	63.7	69.7	75.7	81.7	87.7	
	S/T	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	
	Delta T	25	24	23	20	25	24	23	20	25	25	23	20	24	25	23	20	23	23	23	20	21	22	21	19	25	24	23	20	21	22	21	19	
	KW	3.93	4.01	4.12	4.25	4.21	4.30	4.43	4.56	4.46	4.55	4.69	4.84	4.68	4.78	4.93	5.08	4.87	4.97	5.13	5.29	5.03	5.14	5.30	5.47	5.67	5.76	6.09	6.43	6.77	71.1	74.5	77.9	
	AMPS	14.2	14.5	15.0	15.5	15.3	15.7	16.2	16.8	16.6	17.0	17.6	18.3	17.8	18.2	18.8	19.5	18.9	19.4	20.0	20.8	20.0	20.5	21.2	22.0	23.0	23.6	24.6	25.6	26.6	27.6	28.6	29.6	
	HI PR	145	156	164	171	162	175	184	192	185	199	210	219	210	226	239	249	237	255	269	280	261	281	297	310	320	326	336	346	356	366	376	386	396
	LO PR	61	64	70	75	64	68	74	79	66	71	77	82	70	74	81	86	73	78	85	91	76	81	88	94	101	105	109	113	117	121	125	129	133
1800	MBh	55.6	56.7	59.4	63.3	54.3	55.4	58.0	61.9	53.0	54.0	56.6	60.4	51.7	52.7	55.2	58.9	49.1	50.1	52.5	56.0	45.5	46.4	48.6	51.8	54.3	55.6	59.4	63.3	69.3	75.3	81.3	87.3	
	S/T	0.90	0.87	0.79	0.64	0.94	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.90	0.73	0.90	0.87	0.79	0.64	0.94	0.90	0.81	0.66	
	Delta T	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21	25	25	24	21	23	24	22	19	26	25	24	21	22	21	19	16	
	KW	3.90	3.98	4.09	4.22	4.18	4.26	4.39	4.53	4.43	4.52	4.66	4.80	4.64	4.74	4.89	5.04	4.83	4.93	5.09	5.25	4.99	5.09	5.26	5.43	5.63	5.72	6.05	6.39	6.73	70.7	74.1	77.5	80.9
	AMPS	14.0	14.4	14.8	15.4	15.2	15.5	16.0	16.6	16.5	16.9	17.4	18.1	17.6	18.0	18.6	19.3	18.7	19.2	19.8	20.6	19.9	20.3	21.0	21.8	22.8	23.4	24.4	25.4	26.4	27.4	28.4	29.4	30.4
	HI PR	143	154	163	170	161	173	183	190	183	197	208	217	208	224	237	247	234	252	266	278	259	278	294	307	317	323	333	343	353	363	373	383	393
	LO PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93	100	104	108	112	116	120	124	128	132
1575	MBh	51.3	52.3	54.8	58.5	50.1	51.1	53.5	57.1	48.9	49.9	52.2	55.7	47.7	48.7	51.0	54.4	45.4	46.2	48.4	51.7	42.0	42.8	44.9	47.9	49.9	51.0	54.4	58.5	62.6	66.7	70.8	74.9	
	S/T	0.87	0.84	0.76	0.61	0.90	0.87	0.79	0.64	0.92	0.89	0.81	0.65	0.95	0.92	0.83	0.67	0.99	0.96	0.86	0.70	1.00	0.96	0.87	0.71	0.96	0.93	0.85	0.70	0.96	0.93	0.85	0.70	
	Delta T	26	26	24	21	26	26	25	21	26	26	25	21	27	26	25	21	26	26	24	21	24	24	23	20	27	26	25	21	22	21	19	16	
	KW	3.81	3.89	4.00	4.12	4.08	4.17	4.29	4.42	4.32	4.41	4.55	4.69	4.53	4.63	4.77	4.92	4.71	4.81	4.96	5.12	4.87	4.97	5.13	5.29	5.49	5.58	5.91	6.25	6.59	6.93	72.7	76.1	79.5
	AMPS	13.6	14.0	14.4	15.0	14.7	15.1	15.6	16.2	16.0	16.4	17.0	17.6	17.1	17.5	18.1	18.8	18.2	18.7	19.3	20.0	19.3	19.8	20.4	21.2	22.2	22.8	23.4	24.0	24.6	25.2	25.8	26.4	27.0
	HI PR	139	149	158	165	156	168	177	185	177	191	201	210	202	217	229	239	227	244	258	269	251	270	285	297	309	315	321	327	333	339	345	351	357
	LO PR	58	62	68	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90	97	103	109	115	121	127	133	139	145

COOLING PERFORMANCE DATA

GSH130363A*

EXPANDED PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130363A* / ARUF49-00*-1* / ARUF36421A*

IDB*		Airflow		Outdoor Ambient Temperature																																															
				65								75								85								95								105								115							
				Entering Indoor Wet Bulb Temperature																																															
70	1434	MBh	34.3	35.5	38.9	-	33.5	34.7	38.0	-	32.7	33.9	37.1	-	31.9	33.1	36.2	-	30.3	31.4	34.4	-	28.1	29.1	31.9	-																									
		S/T	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.67	0.47	-	0.83	0.70	0.48	-	0.87	0.72	0.50	-	0.87	0.73	0.51	-																									
		Delta T	17	14	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-																									
		KW	2.38	2.43	2.50	-	2.56	2.61	2.69	-	2.71	2.77	2.86	-	2.85	2.91	3.00	-	2.96	3.03	3.12	-	3.06	3.13	3.23	-																									
		AMPS	7.7	7.8	8.1	-	8.2	8.4	8.7	-	8.9	9.1	9.4	-	9.5	9.7	10.0	-	10.1	10.3	10.7	-	10.7	10.9	11.3	-																									
	1275	HI PR	140	151	160	-	158	170	179	-	179	193	204	-	204	220	232	-	230	247	261	-	254	273	288	-																									
		LO PR	63	67	73	-	67	71	77	-	69	74	81	-	73	77	85	-	76	81	89	-	79	84	92	-																									
		MBh	33.3	34.5	37.8	-	32.5	33.7	36.9	-	31.7	32.9	36.1	-	31.0	32.1	35.2	-	29.4	30.5	33.4	-	27.3	28.3	31.0	-																									
		S/T	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.80	0.66	0.46	-	0.83	0.69	0.48	-	0.83	0.70	0.48	-																									
		Delta T	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-																									
1116	KW	2.36	2.41	2.49	-	2.54	2.59	2.67	-	2.69	2.75	2.83	-	2.83	2.89	2.98	-	2.94	3.00	3.10	-	3.04	3.11	3.21	-																										
	AMPS	7.6	7.8	8.0	-	8.2	8.4	8.6	-	8.8	9.0	9.3	-	9.4	9.6	9.9	-	10.0	10.2	10.6	-	10.6	10.8	11.2	-																										
	HI PR	139	150	158	-	156	168	177	-	177	191	202	-	202	217	230	-	227	245	258	-	251	270	285	-																										
	LO PR	63	66	73	-	66	70	77	-	69	73	80	-	72	77	84	-	76	80	88	-	78	83	91	-																										
	MBh	30.7	31.9	34.9	-	30.0	31.1	34.1	-	29.3	30.4	33.3	-	28.6	29.6	32.5	-	27.2	28.2	30.8	-	25.2	26.1	28.6	-																										
	S/T	0.70	0.58	0.40	-	0.72	0.61	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.80	0.66	0.46	-	0.80	0.67	0.46	-																										
	Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-																										
	KW	2.31	2.36	2.43	-	2.48	2.53	2.61	-	2.63	2.68	2.77	-	2.76	2.82	2.91	-	2.87	2.93	3.02	-	2.97	3.03	3.13	-																										
	AMPS	7.4	7.6	7.8	-	8.0	8.1	8.4	-	8.6	8.8	9.1	-	9.2	9.4	9.7	-	9.7	10.0	10.3	-	10.3	10.5	10.9	-																										
	HI PR	135	145	153	-	151	163	172	-	172	185	196	-	196	211	223	-	220	237	251	-	244	262	277	-																										
LO PR	61	65	70	-	64	68	74	-	67	71	77	-	70	74	81	-	73	78	85	-	76	81	88	-																											

75	1434	MBh	34.9	35.9	38.9	41.7	34.1	35.1	38.0	40.7	33.3	34.2	37.1	39.8	32.4	33.4	36.2	38.8	30.8	31.7	34.4	36.9	28.6	29.4	31.8	34.2	28.6	29.4	31.8	34.2
		S/T	0.86	0.77	0.59	0.38	0.90	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.98	0.88	0.67	0.43	0.99	0.89	0.67	0.43	0.99	0.89	0.67	0.43
		Delta T	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	19	18	15	10	18	17	14	9	18	17	14	9
		KW	2.40	2.45	2.52	2.60	2.58	2.63	2.71	2.80	2.73	2.79	2.88	2.97	2.87	2.93	3.03	3.12	2.99	3.05	3.15	3.25	3.09	3.16	3.26	3.37	3.09	3.16	3.26	3.37
		AMPS	7.7	7.9	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.8	9.6	9.8	10.1	10.5	10.2	10.4	10.8	11.2	10.8	11.0	11.4	11.8	10.8	11.0	11.4	11.8
	1275	HI PR	142	153	161	168	159	171	181	189	181	195	206	214	206	222	234	244	232	250	263	275	256	276	291	304	256	276	291	304
		LO PR	64	68	74	79	67	72	78	83	70	74	81	87	74	78	85	91	77	82	90	95	80	85	93	99	80	85	93	99
		MBh	33.9	34.9	37.7	40.5	33.1	34.1	36.9	39.6	32.3	33.2	36.0	38.6	31.5	32.4	35.1	37.7	29.9	30.8	33.3	35.8	27.7	28.5	30.9	33.2	27.7	28.5	30.9	33.2
		S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41	0.95	0.85	0.64	0.41
		Delta T	20	19	15	10	20	19	15	11	20	19	15	11	21	19	15	11	20	19	15	11	19	17	14	10	19	17	14	10
1116	1275	KW	2.38	2.43	2.50	2.58	2.56	2.61	2.69	2.78	2.71	2.77	2.86	2.95	2.85	2.91	3.00	3.10	2.96	3.03	3.13	3.23	3.06	3.13	3.23	3.34	3.06	3.13	3.23	3.34
		AMPS	7.7	7.8	8.1	8.4	8.2	8.4	8.7	9.0	8.9	9.1	9.4	9.8	9.5	9.7	10.0	10.4	10.1	10.3	10.7	11.1	10.7	10.9	11.3	11.7	10.7	10.9	11.3	11.7
		HI PR	140	151	160	166	158	170	179	187	179	193	204	212	204	220	232	242	230	247	261	272	254	273	288	301	254	273	288	301
		LO PR	63	67	73	78	67	71	77	83	69	74	81	86	73	77	85	90	76	81	89	94	79	84	92	98	79	84	92	98
		MBh	31.3	32.2	34.8	37.4	30.5	31.4	34.0	36.5	29.8	30.7	33.2	35.6	29.1	29.9	32.4	34.8	27.6	28.4	30.8	33.0	25.6	26.3	28.5	30.6	25.6	26.3	28.5	30.6
	1116	S/T	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.76	0.57	0.37	0.87	0.78	0.59	0.38	0.91	0.81	0.61	0.39	0.91	0.82	0.62	0.40	0.91	0.82	0.62	0.40
		Delta T	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10	19	18	15	10
		KW	2.33	2.38	2.45	2.52	2.50	2.55	2.63	2.71	2.65	2.70	2.79	2.88	2.78	2.84	2.93	3.02	2.89	2.95	3.05	3.15	2.99	3.05	3.15	3.26	2.99	3.05	3.15	3.26
		AMPS	7.5	7.6	7.9	8.1	8.0	8.2	8.5	8.8	8.7	8.9	9.2	9.5	9.3	9.5	9.8	10.1	9.8	10.1	10.4	10.8	10.4	10.6	11.0	11.4	10.4	10.6	11.0	11.4
		HI PR	136	147	155	161	153	164	174	181	174	187	197	206	198	213	225	235	223	240	253	264	246	265	280	292	246	265	280	292
	LO PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	87	87	74	79	86	92	77	81	89	95	77	81	89	95

Shaded area is ACCA (TV) conditions

High and low pressures are measured at the liquid and suction service valves.

IDB: Entering Indoor Dry Bulb Temperature

KW=Total system power

AMPS=outdoor unit amps (comp.+fan)

COOLING PERFORMANCE DATA

GSH130363A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130363A* / ARUF49-00*-1* / ARUF36421A*

		Outdoor Ambient Temperature										105										115									
		65					75					85					95					105					115				
IDB*	Airflow	Entering Indoor Wet Bulb Temperature																													
1434	MBh	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
	S/T	35.5	36.3	38.8	41.4	34.7	35.4	37.9	40.5	33.8	34.6	37.0	39.5	33.0	33.7	36.1	38.5	31.4	32.1	34.2	36.6	29.1	29.7	31.7	33.9	29.1	29.7	31.7	33.9		
	Delta T	22	21	18	14	22	21	18	15	22	21	18	15	21	22	18	15	20	21	18	14	19	19	17	13	19	19	17	13		
	KW	2.42	2.47	2.54	2.62	2.60	2.65	2.73	2.82	2.76	2.81	2.90	3.00	2.89	2.96	3.05	3.15	3.01	3.08	3.18	3.28	3.12	3.18	3.29	3.39	3.12	3.18	3.29	3.39		
	AMPS	7.8	8.0	8.2	8.5	8.4	8.6	8.8	9.2	9.1	9.3	9.6	9.9	9.7	9.9	10.2	10.6	10.3	10.5	10.9	11.3	10.9	11.1	11.5	11.9	10.9	11.1	11.5	11.9		
	HIPR	143	154	163	170	161	173	183	190	183	197	208	217	208	224	237	247	234	252	266	278	259	278	294	307	259	278	294	307		
	LO PR	64	69	75	80	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	81	86	94	100	81	86	94	100		
1275	MBh	34.5	35.2	37.6	40.2	33.7	34.4	36.8	39.3	32.9	33.6	35.9	38.4	32.1	32.8	35.0	37.4	30.5	31.1	33.3	35.5	28.2	28.8	30.8	32.9	28.2	28.8	30.8	32.9		
	S/T	0.90	0.85	0.69	0.52	0.94	0.88	0.72	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59		
	Delta T	22	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	20	20	18	14	20	20	18	14		
	KW	2.40	2.45	2.52	2.60	2.58	2.63	2.71	2.80	2.73	2.79	2.88	2.97	2.87	2.93	3.03	3.12	2.99	3.05	3.15	3.25	3.09	3.16	3.26	3.37	3.09	3.16	3.26	3.37		
	AMPS	7.7	7.9	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.8	9.6	9.8	10.1	10.5	10.2	10.4	10.8	11.2	10.8	11.0	11.4	11.8	10.8	11.0	11.4	11.8		
	HIPR	142	153	161	168	159	171	181	189	181	195	206	215	206	222	234	244	232	250	264	275	256	276	291	304	256	276	291	304		
	LO PR	64	68	74	79	67	72	78	83	70	75	81	87	74	78	85	91	77	82	90	95	80	85	93	99	80	85	93	99		
1116	MBh	31.8	32.5	34.7	37.1	31.1	31.7	33.9	36.3	30.3	31.0	33.1	35.4	29.6	30.2	32.3	34.5	28.1	28.7	30.7	32.8	26.0	26.6	28.4	30.4	26.0	26.6	28.4	30.4		
	S/T	0.87	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57	1.00	0.94	0.76	0.57		
	DT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	16	23	22	19	15	21	21	18	14	21	21	18	14		
	KW	2.35	2.39	2.47	2.54	2.52	2.57	2.65	2.73	2.67	2.73	2.81	2.90	2.80	2.86	2.95	3.05	2.92	2.98	3.07	3.17	3.01	3.08	3.18	3.28	3.01	3.08	3.18	3.28		
	AMPS	7.5	7.7	7.9	8.2	8.1	8.3	8.5	8.8	8.8	9.0	9.2	9.6	9.3	9.6	9.9	10.2	9.9	10.1	10.5	10.9	10.5	10.7	11.1	11.5	10.5	10.7	11.1	11.5		
	HIPR	138	148	156	163	154	166	175	183	176	189	199	208	200	215	227	237	225	242	256	267	249	267	282	295	249	267	282	295		
	LO PR	62	66	72	77	65	70	76	81	68	72	79	84	71	76	83	88	75	80	87	93	77	82	90	96	77	82	90	96		

1434	MBh	36.1	36.8	38.6	41.1	35.3	36.0	37.7	40.2	34.4	35.1	36.8	39.2	33.6	34.2	35.9	38.3	31.9	32.5	34.1	36.4	29.6	30.1	31.6	33.7	29.6	30.1	31.6	33.7
	S/T	0.99	0.96	0.87	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.99	0.80	1.00	1.00	0.99	0.81	1.00	1.00	0.99	0.81
	Delta T	23	23	21	19	23	23	22	19	22	23	22	19	22	22	22	19	20	21	22	19	19	19	20	17	19	19	20	17
	KW	2.44	2.49	2.56	2.64	2.62	2.67	2.76	2.84	2.78	2.84	2.93	3.02	2.92	2.98	3.08	3.18	3.04	3.10	3.20	3.31	3.14	3.21	3.31	3.42	3.14	3.21	3.31	3.42
	AMPS	7.9	8.0	8.3	8.6	8.5	8.7	8.9	9.2	9.2	9.4	9.7	10.0	9.8	10.0	10.3	10.7	10.4	10.6	11.0	11.4	11.0	11.2	11.6	12.0	11.0	11.2	11.6	12.0
	HIPR	145	156	164	171	162	175	184	192	185	199	210	219	210	226	239	249	237	255	269	280	261	281	297	310	261	281	297	310
	LO PR	65	69	76	80	69	73	80	85	71	76	83	88	75	80	87	93	79	84	91	97	81	87	94	101	81	87	94	101
	1275	MBh	35.1	35.7	37.4	39.9	34.3	34.9	36.6	39.0	33.4	34.1	35.7	38.1	32.6	33.3	34.8	37.2	31.0	31.6	33.1	35.3	28.7	29.3	30.6	32.7	28.7	29.3	30.6
S/T		0.95	0.91	0.83	0.67	0.98	0.95	0.86	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77	1.00	1.00	0.95	0.77
Delta T		24	24	22	19	24	24	23	20	24	24	23	20	24	24	23	20	22	23	22	19	21	21	21	18	21	21	21	18
KW		2.42	2.47	2.54	2.62	2.60	2.65	2.73	2.82	2.76	2.81	2.90	3.00	2.89	2.96	3.05	3.15	3.01	3.08	3.18	3.28	3.12	3.18	3.29	3.39	3.12	3.18	3.29	3.39
AMPS		7.8	8.0	8.2	8.5	8.4	8.6	8.8	9.2	9.1	9.3	9.6	9.9	9.7	9.9	10.2	10.6	10.3	10.5	10.9	11.3	10.9	11.1	11.5	11.9	10.9	11.1	11.5	11.9
HIPR		143	154	163	170	161	173	183	190	183	197	208	217	208	224	237	247	234	252	266	278	259	278	294	307	259	278	294	307
LO PR		64	69	75	80	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	81	86	94	100	81	86	94	100
1116		MBh	32.4	33.0	34.6	36.9	31.6	32.2	33.8	36.0	30.9	31.5	32.9	35.1	30.1	30.7	32.1	34.3	28.6	29.2	30.5	32.6	26.5	27.0	28.3	30.2	26.5	27.0	28.3
	S/T	0.91	0.88	0.80	0.65	0.95	0.91	0.82	0.67	0.97	0.94	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.91	0.74	1.00	1.00	0.91	0.74
	Delta T	24	24	23	20	25	24	23	20	25	24	23	20	25	24	23	20	24	24	23	20	22	22	21	18	22	22	21	18
	KW	2.36	2.41	2.48	2.56	2.54	2.59	2.67	2.75	2.69	2.75	2.83	2.92	2.83	2.89	2.98	3.07	2.94	3.00	3.10	3.20	3.04	3.10	3.20	3.31	3.04	3.10	3.20	3.31
	AMPS	7.6	7.8	8.0	8.3	8.2	8.4	8.6	8.9	8.8	9.0	9.3	9.7	9.4	9.6	9.9	10.3	10.0	10.2	10.6	11.0	10.6	10.8	11.2	11.6	10.6	10.8	11.2	11.6
	HIPR	139	150	158	165	156	168	177	185	177	191	201	210	202	217	229	239	227	244	258	269	251	270	285	298	251	270	285	298
	LO PR	62	66	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	80	88	93	78	83	91	97	78	83	91	97

COOLING PERFORMANCE DATA

GSH130483A*

EXPANDED PERFORMANCE DATA

MODEL: GSH130483A* / ARUF61-00*-1* / ARUF48601A*

COOLING OPERATION

IDB*		Outdoor Ambient Temperature															Cooling Operation														
		75					85					95					105					115									
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75
70	Airflow	1800	1600	1400	1200	1000	800	600	400	200	100	50	25	12	6	3	1	0.5	0.25	0.12	0.06	0.03	0.015	0.007	0.003	0.001	0.0005	0.0002	0.0001	0.00005	0.00002
	MBh	44.1	45.7	50.1	-	43.1	44.6	48.9	-	42.0	43.6	47.7	-	41.0	42.5	46.6	-	39.0	40.4	44.3	-	36.1	37.4	41.0	-	33.0	34.3	37.9	-	30.0	31.3
	S/T	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.81	0.67	0.47	-	0.83	0.70	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-	0.89	0.75	0.55	-	0.91	0.77
	Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-	15	13	10	-	14	12
	KW	3.10	3.17	3.27	-	3.34	3.41	3.52	-	3.55	3.62	3.74	-	3.73	3.81	3.93	-	3.88	3.97	4.10	-	4.02	4.11	4.24	-	4.04	4.13	4.28	-	4.08	4.17
	AMPS	10.0	10.2	10.5	-	10.8	11.0	11.4	-	11.7	11.9	12.3	-	12.4	12.7	13.2	-	13.2	13.5	14.0	-	14.0	14.3	14.8	-	14.0	14.3	14.8	-	14.0	14.3
70	HI PR	145	156	165	-	163	175	185	-	185	199	211	-	211	227	240	-	237	256	270	-	262	282	298	-	262	282	298	-	262	282
	LO PR	62	66	72	-	65	70	76	-	68	72	79	-	71	76	83	-	75	80	87	-	77	82	90	-	75	80	87	-	77	82
	MBh	42.8	44.4	48.6	-	41.8	43.3	47.5	-	40.8	42.3	46.4	-	39.8	41.3	45.2	-	37.8	39.2	43.0	-	35.0	36.3	39.8	-	33.0	34.3	37.9	-	30.0	31.3
	S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-	0.85	0.71	0.51	-	0.87	0.73
	Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	14	11	-	16	13	10	-	15	12
	KW	3.08	3.14	3.24	-	3.31	3.38	3.49	-	3.52	3.59	3.71	-	3.70	3.78	3.90	-	3.85	3.94	4.07	-	3.99	4.07	4.21	-	3.99	4.07	4.21	-	3.99	4.07
70	HI PR	144	155	163	-	161	174	183	-	184	197	209	-	209	225	238	-	235	253	267	-	260	280	295	-	260	280	295	-	260	280
	LO PR	61	65	71	-	65	69	75	-	67	72	78	-	71	75	82	-	74	79	86	-	77	82	89	-	77	82	89	-	77	82
	MBh	39.5	41.0	44.9	-	38.6	40.0	43.8	-	37.7	39.1	42.8	-	36.8	38.1	41.7	-	34.9	36.2	39.7	-	32.3	33.5	36.7	-	30.0	31.3	34.9	-	27.0	28.3
	S/T	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-	0.82	0.68	0.48	-	0.84	0.70
	Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	16	13	10	-	15	12
	KW	3.01	3.07	3.16	-	3.23	3.30	3.40	-	3.43	3.51	3.62	-	3.61	3.69	3.81	-	3.76	3.84	3.97	-	3.89	3.97	4.10	-	3.89	3.97	4.10	-	3.89	3.97
70	HI PR	139	150	159	-	157	168	178	-	178	192	202	-	203	218	230	-	228	245	259	-	252	271	286	-	252	271	286	-	252	271
	LO PR	60	63	69	-	63	67	73	-	65	70	76	-	69	73	80	-	72	77	84	-	74	79	86	-	74	79	86	-	74	79
	MBh	37.0	38.5	42.4	-	36.1	37.6	41.5	-	35.2	36.7	40.6	-	34.3	35.8	39.7	-	33.0	34.5	38.4	-	30.0	31.5	35.4	-	27.0	28.5	32.4	-	24.0	25.5
	S/T	0.68	0.56	0.38	-	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.44	-	0.76	0.64	0.46	-	0.78	0.66	0.48	-	0.80	0.68	0.50	-	0.82	0.70
	Delta T	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	16	12	-	17	14	11	-	16	13
	KW	2.94	3.00	3.10	-	3.07	3.13	3.23	-	3.10	3.16	3.26	-	3.07	3.13	3.23	-	3.02	3.08	3.18	-	2.94	3.00	3.10	-	2.94	3.00	3.10	-	2.94	3.00

75	1800	MBh	44.8	46.2	50.0	53.6	43.8	45.1	48.8	52.4	42.8	44.0	47.7	51.1	41.7	42.9	46.5	49.9	39.6	40.8	44.2	47.4	36.7	37.8	40.9	43.9
		S/T	0.86	0.77	0.58	0.38	0.89	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.89	0.67	0.43
		Delta T	20	18	15	10	20	18	15	10	20	18	15	10	20	19	15	11	20	18	15	10	19	17	14	10
		KW	3.13	3.19	3.29	3.40	3.37	3.44	3.55	3.66	3.58	3.65	3.77	3.89	3.76	3.84	3.97	4.10	3.92	4.00	4.14	4.27	4.05	4.14	4.28	4.43
		AMPS	10.1	10.3	10.6	11.0	10.9	11.1	11.5	11.9	11.8	12.1	12.4	12.9	12.6	12.9	13.3	13.8	13.3	13.7	14.1	14.6	14.1	14.5	14.9	15.5
		HI PR	147	158	167	174	165	177	187	195	187	201	213	222	213	229	242	253	240	258	273	284	265	285	301	314
		LO PR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97
75	1600	MBh	43.5	44.8	48.5	52.1	42.5	43.8	47.4	50.9	41.5	42.7	46.3	49.7	40.5	41.7	45.1	48.4	38.5	39.6	42.9	46.0	35.6	36.7	39.7	42.6
		S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.94	0.84	0.64	0.41
		Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
		KW	3.10	3.17	3.27	3.37	3.34	3.41	3.52	3.63	3.55	3.62	3.74	3.86	3.73	3.81	3.94	4.07	3.89	3.97	4.10	4.24	4.02	4.11	4.25	4.39
		AMPS	10.0	10.2	10.5	10.9	10.8	11.0	11.4	11.8	11.7	11.9	12.3	12.8	12.5	12.7	13.2	13.6	13.2	13.5	14.0	14.5	14.0	14.3	14.8	15.4
		HI PR	145	156	165	172	163	175	185	193	185	199	211	220	211	227	240	250	238	256	270	282	262	282	298	311
		LO PR	62	66	72	77	65	70	76	81	68	72	79	84	71	76	83	88	75	80	87	93	77	82	90	96
75	1400	MBh	40.2	41.4	44.8	48.1	39.3	40.4	43.7	46.9	38.3	39.5	42.7	45.8	37.4	38.5	41.7	44.7	35.5	36.6	39.6	42.5	32.9	33.9	36.7	39.3
		S/T	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.81	0.62	0.40
		Delta T	21	19	16	11	21	20	16	11	21	20	16	11	21	20	16	11	21	19	16	11	20	18	15	10
		KW	3.03	3.09	3.19	3.29	3.26	3.33	3.43	3.54	3.46	3.53	3.65	3.77	3.64	3.72	3.84	3.96	3.79	3.87	4.00	4.13	3.92	4.01	4.14	4.28
		AMPS	9.7	10.0	10.3	10.6	10.5	10.7	11.1	11.5	11.4	11.6	12.0	12.4	12.1	12.4	12.8	13.3	12.9	13.2	13.6	14.1	13.6	13.9	14.4	14.9
		HI PR	141	152	160	167	158	170	180	187	180	194	204	213	205	220	233	243	230	248	262	273	255	274	289	302
		LO PR	60	64	70	74	64	68	74	79	66	70	77	82	69	74	81	86	73	77	84	90	75	80	87	93

COOLING PERFORMANCE DATA

GSH130483A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130483A* / ARUF61-00*-1* / ARUF48601A*

		Outdoor Ambient Temperature																																				
		65						75						85						95						105						115						
		Entering Indoor Wet Bulb Temperature																																				
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
80	1800	MBh	45.6	46.6	49.8	53.3	44.6	45.6	48.7	52.0	43.5	44.5	47.5	50.8	42.5	43.4	46.4	49.5	40.3	41.2	44.0	47.1	37.4	38.2	40.8	43.6	100	1.00	0.82	0.61	1.00	0.97	0.79	0.59	1.00	0.93	0.71	
		S/T	0.95	0.89	0.72	0.54	1.00	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62	1.00	1.00	0.82	0.61	1.00	0.97	0.79	0.59	1.00	0.93	0.71	
		Delta T	22	21	18	15	23	21	19	15	22	21	19	15	22	22	19	15	21	21	18	15	19	19	17	14	21	21	18	15	21	21	18	15	21	21	18	14
		KW	3.15	3.22	3.32	3.42	3.39	3.46	3.58	3.69	3.60	3.68	3.80	3.93	3.79	3.87	4.00	4.13	3.95	4.04	4.17	4.31	4.09	4.18	4.32	4.46	4.09	4.18	4.31	4.45	4.14	4.28	4.07	3.91	4.09	4.18	4.32	4.46
		AMPS	10.2	10.4	10.7	11.1	11.0	11.2	11.6	12.0	11.9	12.2	12.6	13.0	12.7	13.0	13.4	13.9	13.5	13.8	14.2	14.8	14.3	14.6	15.1	15.6	14.3	14.6	15.1	15.6	14.3	14.6	15.1	15.6	14.3	14.6	15.1	15.6
	1600	HI PR	148	159	168	176	166	179	189	197	189	204	215	224	215	232	245	255	242	261	275	287	268	288	304	317	268	288	304	317	268	288	304	317	268	288	304	317
		LO PR	63	67	73	78	67	71	78	83	69	74	81	86	73	78	85	90	76	81	89	95	79	84	92	98	79	84	92	98	79	84	92	98	79	84	92	98
		MBh	44.3	45.3	48.4	51.7	43.3	44.2	47.3	50.5	42.3	43.2	46.1	49.3	41.2	42.1	45.0	48.1	39.2	40.0	42.8	45.7	36.3	37.1	39.6	42.3	36.3	37.1	39.6	42.3	36.3	37.1	39.6	42.3	36.3	37.1	39.6	42.3
		S/T	0.90	0.85	0.69	0.51	0.94	0.88	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.56	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59
		Delta T	23	22	19	15	23	22	19	15	23	22	19	16	23	22	20	16	23	22	19	15	21	21	18	14	21	21	18	15	21	21	18	15	21	21	18	14
	1400	KW	3.13	3.19	3.29	3.40	3.37	3.44	3.55	3.66	3.58	3.65	3.77	3.89	3.76	3.84	3.97	4.10	3.92	4.00	4.14	4.27	4.05	4.14	4.28	4.43	4.05	4.14	4.27	4.40	4.05	4.14	4.27	4.40	4.05	4.14	4.27	4.40
		AMPS	10.1	10.3	10.6	11.0	10.9	11.1	11.5	11.9	11.8	12.1	12.4	12.9	12.6	12.9	13.3	13.8	13.4	13.7	14.1	14.6	14.1	14.5	14.9	15.5	14.1	14.5	14.9	15.5	14.1	14.5	14.9	15.5	14.1	14.5	14.9	15.5
		HI PR	147	158	167	174	165	177	187	195	187	202	213	222	213	230	242	253	240	258	273	284	265	285	301	314	265	285	301	314	265	285	301	314	265	285	301	314
		LO PR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97	78	83	91	97	78	83	91	97	78	83	91	97
		MBh	40.9	41.8	44.7	47.7	39.9	40.8	43.6	46.6	39.0	39.8	42.6	45.5	38.0	38.9	41.5	44.4	36.1	36.9	39.5	42.2	33.5	34.2	36.6	39.1	33.5	34.2	36.6	39.1	33.5	34.2	36.6	39.1	33.5	34.2	36.6	39.1
85	1800	S/T	0.87	0.82	0.66	0.50	0.90	0.85	0.69	0.51	0.92	0.87	0.71	0.53	0.95	0.90	0.73	0.54	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57	1.00	0.94	0.76	0.57	1.00	0.94	0.76	0.57	1.00	0.94	0.76	0.57
		Delta T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15	22	21	18	15	22	21	18	15	22	21	18	15
		KW	3.05	3.12	3.21	3.32	3.28	3.35	3.46	3.57	3.49	3.56	3.68	3.80	3.67	3.75	3.87	4.00	3.82	3.90	4.03	4.17	3.95	4.04	4.17	4.31	3.95	4.04	4.17	4.31	3.95	4.04	4.17	4.31	3.95	4.04	4.17	4.31
		AMPS	9.8	10.0	10.4	10.7	10.6	10.8	11.2	11.6	11.5	11.7	12.1	12.6	12.2	12.5	12.9	13.4	13.0	13.3	13.7	14.2	13.7	14.1	14.5	15.1	13.7	14.1	14.5	15.1	13.7	14.1	14.5	15.1	13.7	14.1	14.5	15.1
		HI PR	142	153	162	169	160	172	181	189	182	195	206	215	207	223	235	245	233	250	264	276	257	277	292	305	257	277	292	305	257	277	292	305	257	277	292	305
	1600	LO PR	61	65	71	75	64	68	75	79	67	71	77	82	70	75	81	87	73	78	85	91	76	81	88	94	76	81	88	94	76	81	88	94	76	81	88	94
		MBh	46.4	47.3	49.6	52.9	45.4	46.2	48.4	51.7	44.3	45.1	47.3	50.4	43.2	44.0	46.1	49.2	41.0	41.8	43.8	46.7	38.0	38.8	40.6	43.3	38.0	38.8	40.6	43.3	38.0	38.8	40.6	43.3	38.0	38.8	40.6	43.3
		S/T	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77	1.00	1.00	0.95	0.77
		Delta T	24	23	22	19	23	23	22	19	23	23	22	19	22	22	22	19	21	21	22	19	19	20	21	18	19	20	21	18	19	20	21	18	19	20	21	18
		KW	3.18	3.24	3.35	3.45	3.42	3.49	3.60	3.72	3.63	3.71	3.83	3.96	3.82	3.91	4.03	4.17	3.98	4.07	4.21	4.35	4.12	4.21	4.35	4.50	4.12	4.21	4.35	4.50	4.12	4.21	4.35	4.50	4.12	4.21	4.35	4.50
	1400	AMPS	10.3	10.5	10.8	11.2	11.1	11.3	11.7	12.1	12.0	12.3	12.7	13.1	12.8	13.1	13.5	14.0	13.6	13.9	14.4	14.9	14.4	14.7	15.2	15.8	14.4	14.7	15.2	15.8	14.4	14.7	15.2	15.8	14.4	14.7	15.2	15.8
		HI PR	150	161	170	177	168	181	191	199	191	206	217	226	218	234	247	258	245	263	278	290	270	291	307	321	270	291	307	321	270	291	307	321	270	291	307	321
		LO PR	64	68	74	79	67	72	78	83	70	75	81	87	74	78	86	91	77	82	90	95	80	85	93	99	80	85	93	99	80	85	93	99	80	85	93	99
		MBh	45.1	46.0	48.1	51.4	44.0	44.9	47.0	50.2	43.0	43.8	45.9	49.0	41.9	42.8	44.8	47.8	39.8	40.6	42.5	45.4	36.9	37.6	39.4	42.0	36.9	37.6	39.4	42.0	36.9	37.6	39.4	42.0	36.9	37.6	39.4	42.0
		S/T	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77	1.00	1.00	0.95	0.77

COOLING OPERATION

MODEL: GSH130603A* / ARUF61-00*.1* / ARUF48601A*

IDB*		Outdoor Ambient Temperature																								
		65					75					85					105					115				
		Entering Indoor Wet Bulb Temperature																								
Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
2025	MBh	54.4	56.4	61.8	-	53.1	55.1	60.3	-	51.9	53.7	58.9	-	50.6	52.4	57.5	-	48.1	49.8	54.6	-	44.5	46.1	50.6	-	
	S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-	
	Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	
	KW	4.03	4.12	4.25	-	4.35	4.45	4.60	-	4.64	4.74	4.90	-	4.89	5.00	5.17	-	5.10	5.22	5.39	-	5.28	5.40	5.59	-	
	AMPS	13.0	13.3	13.8	-	14.1	14.4	14.9	-	15.3	15.7	16.2	-	16.3	16.7	17.3	-	17.4	17.8	18.4	-	18.4	18.9	19.5	-	
	HIP R	146	157	166	-	164	176	186	-	186	200	211	-	212	228	241	-	238	257	271	-	263	283	299	-	
	LO PR	57	61	66	-	60	64	70	-	63	67	73	-	66	70	76	-	69	73	80	-	71	76	83	-	
1800	MBh	52.8	54.7	60.0	-	51.6	53.5	58.6	-	50.3	52.2	57.2	-	49.1	50.9	55.8	-	46.7	48.4	53.0	-	43.2	44.8	49.1	-	
	S/T	0.69	0.58	0.40	-	0.72	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.79	0.66	0.46	-	
	Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	
	KW	4.00	4.09	4.22	-	4.32	4.41	4.56	-	4.60	4.70	4.86	-	4.84	4.96	5.12	-	5.06	5.17	5.35	-	5.24	5.36	5.54	-	
	AMPS	12.9	13.2	13.7	-	14.0	14.3	14.8	-	15.1	15.5	16.0	-	16.2	16.6	17.1	-	17.2	17.6	18.2	-	18.2	18.7	19.3	-	
	HIP R	144	155	164	-	162	174	184	-	184	198	209	-	210	226	238	-	236	254	268	-	261	281	296	-	
	LO PR	57	60	66	-	60	64	69	-	62	66	72	-	65	69	76	-	68	73	79	-	71	75	82	-	
1575	MBh	48.7	50.5	55.3	-	47.6	49.3	54.1	-	46.5	48.2	52.8	-	45.3	47.0	51.5	-	43.1	44.6	48.9	-	39.9	41.4	45.3	-	
	S/T	0.67	0.56	0.39	-	0.69	0.58	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.76	0.64	0.44	-	
	Delta T	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	13	-	18	15	12	-	
	KW	3.90	3.99	4.12	-	4.21	4.30	4.44	-	4.48	4.58	4.73	-	4.72	4.83	4.99	-	4.93	5.04	5.21	-	5.10	5.22	5.40	-	
	AMPS	12.6	12.9	13.3	-	13.6	13.9	14.4	-	14.7	15.1	15.6	-	15.7	16.1	16.7	-	16.7	17.1	17.7	-	17.7	18.2	18.8	-	
	HIP R	140	151	159	-	157	169	179	-	179	192	203	-	204	219	231	-	229	246	260	-	253	272	287	-	
	LO PR	55	58	64	-	58	62	67	-	60	64	70	-	63	67	73	-	66	70	77	-	69	73	80	-	

2025	MBh	55.3	56.9	61.6	66.2	54.0	55.6	60.2	64.6	52.7	54.3	58.8	63.1	51.4	53.0	57.3	61.5	48.9	50.3	54.5	58.5	45.3	46.6	50.5	54.2
	S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.94	0.84	0.64	0.41
	Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
	KW	4.07	4.16	4.29	4.43	4.39	4.49	4.64	4.79	4.68	4.78	4.94	5.11	4.93	5.04	5.21	5.39	5.14	5.26	5.44	5.63	5.33	5.45	5.64	5.83
	AMPS	13.2	13.5	13.9	14.4	14.2	14.5	15.0	15.6	15.4	15.8	16.3	16.9	16.5	16.9	17.4	18.1	17.5	18.0	18.6	19.3	18.6	19.0	19.7	20.4
	HI PR	147	159	167	175	165	178	188	196	188	202	214	223	214	230	243	254	241	259	274	285	266	286	302	315
	LO PR	58	61	67	71	61	65	71	75	63	67	74	78	67	71	77	82	70	74	81	86	72	77	84	89
1800	MBh	53.7	55.3	59.8	64.2	52.4	54.0	58.4	62.7	51.2	52.7	57.1	61.2	50.0	51.4	55.7	59.7	47.5	48.9	52.9	56.8	44.0	45.3	49.0	52.6
	S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39
	Delta T	22	20	16	11	22	20	16	11	22	20	16	11	22	20	17	11	22	20	16	11	20	19	15	11
	KW	4.03	4.12	4.26	4.40	4.35	4.45	4.60	4.75	4.64	4.74	4.90	5.07	4.89	5.00	5.17	5.35	5.10	5.22	5.39	5.58	5.28	5.40	5.59	5.78
	AMPS	13.0	13.3	13.8	14.3	14.1	14.4	14.9	15.4	15.3	15.7	16.2	16.8	16.3	16.7	17.3	17.9	17.4	17.8	18.4	19.1	18.4	18.9	19.5	20.2
	HI PR	146	157	166	173	164	176	186	194	186	200	211	221	212	228	241	251	238	257	271	283	263	284	299	312
	LO PR	57	61	66	71	60	64	70	75	63	67	73	78	66	70	76	81	69	73	80	85	71	76	83	88
1575	MBh	49.6	51.0	55.2	59.3	48.4	49.8	53.9	57.9	47.3	48.7	52.7	56.5	46.1	47.5	51.4	55.1	43.8	45.1	48.8	52.4	40.6	41.8	45.2	48.5
	S/T	0.76	0.68	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.38	0.87	0.78	0.59	0.38
	Delta T	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	11	21	19	16	11
	KW	3.93	4.02	4.15	4.29	4.24	4.34	4.48	4.63	4.52	4.62	4.78	4.94	4.76	4.87	5.03	5.21	4.97	5.08	5.25	5.44	5.15	5.26	5.44	5.63
	AMPS	12.7	13.0	13.4	13.9	13.7	14.0	14.5	15.0	14.9	15.2	15.7	16.3	15.9	16.3	16.8	17.4	16.9	17.3	17.9	18.6	17.9	18.3	18.9	19.7
	HI PR	141	152	161	168	159	171	180	188	181	194	205	214	206	221	234	244	231	249	263	274	256	275	290	303
	LO PR	55	59	64	68	59	62	68	72	61	65	71	75	64	68	74	79	67	71	78	83	69	74	80	86

AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

COOLING PERFORMANCE DATA

GSH130603A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH130603A* / ARUF61-00*-1* / ARUF48601A*

IDB*		Airflow		Outdoor Ambient Temperature												105												115											
				75						85						95						105						115											
				Entering Indoor Wet Bulb Temperature												105												115											
59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71												
80	2025	MBh	56.29	57.52	61.45	65.69	54.98	56.18	60.02	64.16	53.67	54.84	58.59	62.64	52.36	53.51	57.17	61.11	49.74	50.83	54.31	58.05	46.08	47.09	50.31	53.78	46.08	47.09	50.31	53.78									
		S/T	0.90	0.85	0.69	0.51	0.94	0.88	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.56	1.00	0.96	0.78	0.59	1.00	1.00	0.79	0.59	1.00	1.00	0.79	0.59									
		Delta T	23	22	19	15	23	22	19	16	23	22	19	16	24	23	20	16	23	22	19	15	21	21	18	14	21	21	18	14									
		KW	4.10	4.19	4.33	4.47	4.43	4.53	4.68	4.83	4.72	4.82	4.98	5.16	4.97	5.08	5.26	5.44	5.19	5.31	5.49	5.68	5.38	5.50	5.69	5.89	5.38	5.50	5.69	5.89									
		AMPS	13.3	13.6	14.0	14.5	14.3	14.7	15.2	15.7	15.6	15.9	16.5	17.1	16.6	17.0	17.6	18.3	17.7	18.1	18.7	19.4	18.8	19.2	19.9	20.6	18.8	19.2	19.9	20.6									
		HI PR	149	160	169	176	167	180	190	198	190	204	216	225	216	233	246	256	243	262	276	288	269	289	305	319	269	289	305	319									
		LO PR	58	62	68	72	62	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	85	90	73	77	85	90									
		MBh	54.7	55.8	59.7	63.8	53.4	54.5	58.3	62.3	52.1	53.2	56.9	60.8	50.8	51.9	55.5	59.3	48.3	49.4	52.7	56.4	44.7	45.7	48.8	52.2	44.7	45.7	48.8	52.2									
		S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.89	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56	0.99	0.93	0.75	0.56									
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	25	23	20	16	24	23	20	16	23	22	19	15	23	22	19	15									
80	1800	KW	4.07	4.16	4.29	4.43	4.39	4.49	4.64	4.79	4.68	4.78	4.94	5.11	4.93	5.04	5.21	5.39	5.14	5.26	5.44	5.63	5.33	5.45	5.64	5.84	5.33	5.45	5.64	5.84									
		AMPS	13.2	13.5	13.9	14.4	14.2	14.5	15.0	15.6	15.4	15.8	16.3	16.9	16.5	16.9	17.4	18.1	17.5	18.0	18.6	19.3	18.6	19.0	19.7	20.4	18.6	19.0	19.7	20.4									
		HI PR	147	159	167	175	165	178	188	196	188	202	214	223	214	230	243	254	241	259	274	285	266	286	302	315	266	286	302	315									
		LO PR	58	61	67	71	61	65	71	75	63	67	74	78	67	71	77	82	70	74	81	86	72	77	84	89	72	77	84	89									
		MBh	50.4	51.5	55.1	58.9	49.3	50.3	53.8	57.5	48.1	49.1	52.5	56.1	46.9	47.9	51.2	54.8	44.6	45.6	48.7	52.0	41.3	42.2	45.1	48.2	41.3	42.2	45.1	48.2									
		S/T	0.83	0.78	0.63	0.47	0.86	0.81	0.66	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.89	0.72	0.54	0.95	0.89	0.73	0.54	0.95	0.89	0.73	0.54									
		Delta T	24	23	20	16	25	24	21	16	25	24	21	16	25	24	21	17	25	24	20	16	23	22	19	15	23	22	19	15									
		KW	3.97	4.05	4.18	4.32	4.28	4.38	4.52	4.67	4.56	4.66	4.82	4.98	4.80	4.91	5.08	5.25	5.01	5.13	5.30	5.48	5.19	5.31	5.49	5.68	5.19	5.31	5.49	5.68									
		AMPS	12.8	13.1	13.5	14.0	13.8	14.2	14.6	15.2	15.0	15.4	15.9	16.5	16.0	16.4	17.0	17.6	17.1	17.5	18.1	18.7	18.1	18.5	19.1	19.9	18.1	18.5	19.1	19.9									
		HI PR	143	154	162	169	160	173	182	190	182	196	207	216	208	223	236	246	234	251	266	277	258	278	293	306	258	278	293	306									
LO PR	56	60	65	69	59	63	69	73	61	65	71	76	65	69	75	80	68	72	79	84	70	74	81	87	70	74	81	87											
85	2025	MBh	57.27	58.38	61.15	65.23	55.94	57.02	59.72	63.72	54.61	55.67	58.30	62.20	53.28	54.31	56.88	60.68	50.61	51.59	54.04	57.65	46.88	47.79	50.05	53.40	46.88	47.79	50.05	53.40									
		S/T	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77	1.00	1.00	0.95	0.77									
		Delta T	25	24	23	20	25	24	23	20	25	25	23	20	24	25	23	20	23	23	23	20	21	22	21	19	21	22	21	19									
		KW	4.13	4.22	4.36	4.51	4.46	4.56	4.72	4.88	4.76	4.86	5.03	5.20	5.01	5.13	5.30	5.49	5.23	5.35	5.54	5.73	5.42	5.55	5.74	5.94	5.42	5.55	5.74	5.94									
		AMPS	13.4	13.7	14.2	14.7	14.5	14.8	15.3	15.9	15.7	16.1	16.6	17.2	16.8	17.2	17.8	18.4	17.9	18.3	18.9	19.6	18.9	19.4	20.0	20.8	18.9	19.4	20.0	20.8									
		HI PR	150	162	171	178	169	181	192	200	192	206	218	227	218	235	248	259	246	264	279	291	271	292	309	322	271	292	309	322									
		LO PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	78	85	91	74	78	85	91									
		MBh	55.6	56.7	59.4	63.3	54.3	55.4	58.0	61.9	53.0	54.0	56.6	60.4	51.7	52.7	55.2	58.9	49.1	50.1	52.5	56.0	45.5	46.4	48.6	51.8	45.5	46.4	48.6	51.8									
		S/T	0.90	0.87	0.79	0.64	0.94	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.90	0.73	1.00	1.00	0.90	0.73									
		Delta T	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21	25	25	24	21	23	24	22	19	23	24	22	19									
85	1800	KW	4.10	4.19	4.33	4.47	4.43	4.53	4.68	4.83	4.72	4.82	4.98	5.16	4.97	5.08	5.26	5.44	5.19	5.31	5.49	5.68	5.38	5.50	5.69	5.89	5.38	5.50	5.69	5.89									
		AMPS	13.3	13.6	14.0	14.5	14.3	14.7	15.2	15.7	15.6	15.9	16.5	17.1	16.6	17.0	17.6	18.3	17.7	18.1	18.7	19.4	18.8	19.2	19.9	20.6	18.8	19.2	19.9	20.6									
		HI PR	149	160	169	176	167	180	190	198	190	204	216	225	216	233	246	256	243	262	276	288	269	289	305	319	269	289	305	319									
		LO PR	58	62	68	72	62	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	85	90	73	77	85	90									
		MBh	51.3	52.3	54.8	58.5	50.1	51.1	53.5	57.1	48.9	49.9	52.2	55.7	47.7	48.7	51.0	54.4	45.4	46.2	48.4	51.7	42.0	42.8	44.9	47.9	42.0	42.8	44.9	47.9									
		S/T	0.87	0.84	0.76	0.61	0.90	0.87	0.79	0.64	0.92	0.89	0.81	0.65	0.95	0.92	0.83	0.67	0.99	0.96	0.86	0.70	1.00	0.96	0.87	0.71	1.00	0.96	0.87	0.71									
		Delta T	26	26	24	21	26	26	25	21	26	26	25	21	27	26	25	21	26	26	24	21	24	24	23	20	24	24	23	20									
		KW	4.00	4.09	4.22	4.36	4.32	4.41	4.56	4.71	4.60	4.70	4.86	5.02	4.84	4.95	5.12	5.30	5.05	5.17	5.35	5.53	5.24	5.36	5.54	5.73	5.24	5.36	5.54	5.73									
		AMPS	12.9	13.2	13.6	14.1	13.9	14.3	14.7	15.3	15.1	15.5	16.0	16.6	16.2	16.6	17.1	17.8	17.2	17.6	18.2	18.9	18.2	18.7	19.3	20.0	18.2	18.7	19.3	20.0									
		HI PR	144	155	164	171	162	174	184	192	184	198	209	218	210	226	238	249	236	254	268	280	261	281	296	309	261	281	296	309									
LO PR	56	60	66	70	60	64	69	74	62	66	72	77	65	69	76	81	68	73	79	84	71	75	82	87	71	75	82	87											

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH13048-4A* / ARUF61-00*-1* / ARUF48601A* Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

IDB		Outdoor Ambient Temperature										Outdoor Ambient Temperature									
		65					75					85					95				
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75
70	Airflow	Entering Indoor Wet Bulb Temperature																			
	MBh	44.1	45.7	50.1	-	43.1	44.6	48.9	-	42.0	43.6	47.7	-	41.0	42.5	46.6	-	39.0	40.4	44.3	-
	S/T	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-
	Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-
	KW	3.02	3.10	3.21	-	3.29	3.37	3.49	-	3.52	3.61	3.74	-	3.73	3.83	3.97	-	3.91	4.01	4.16	-
	AMPS	2.3	2.4	2.4	-	2.5	2.5	2.6	-	2.6	2.7	2.8	-	2.8	2.9	2.9	-	2.9	3.0	3.1	-
	HIPR	150	162	171	-	169	182	192	-	192	207	218	-	219	235	249	-	246	265	280	-
1600	LO PR	63	67	73	-	66	70	77	-	69	73	80	-	72	77	84	-	76	81	88	-
	MBh	42.8	44.4	48.6	-	41.8	43.3	47.5	-	40.8	42.3	46.4	-	39.8	41.3	45.2	-	37.8	39.2	43.0	-
	S/T	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-
	Delta T	18	15	12	-	18	15	12	-	18	16	12	-	18	16	12	-	18	15	12	-
	KW	2.99	3.07	3.18	-	3.26	3.34	3.46	-	3.49	3.58	3.71	-	3.70	3.79	3.93	-	3.87	3.97	4.12	-
	AMPS	2.3	2.3	2.4	-	2.4	2.5	2.6	-	2.6	2.7	2.7	-	2.8	2.8	2.9	-	2.9	3.0	3.1	-
	HIPR	149	160	169	-	167	180	190	-	190	205	216	-	217	233	246	-	244	262	277	-
1400	LO PR	62	66	72	-	66	70	76	-	68	72	79	-	72	76	83	-	75	80	87	-
	MBh	39.5	41.0	44.9	-	38.6	40.0	43.8	-	37.7	39.1	42.8	-	36.8	38.1	41.7	-	34.9	36.2	39.7	-
	S/T	0.69	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.61	0.43	-	0.76	0.63	0.44	-	0.79	0.66	0.46	-
	Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-
	KW	2.91	2.98	3.09	-	3.17	3.25	3.36	-	3.40	3.48	3.61	-	3.60	3.68	3.82	-	3.77	3.86	4.00	-
	AMPS	2.2	2.3	2.3	-	2.4	2.4	2.5	-	2.6	2.6	2.7	-	2.7	2.8	2.8	-	2.9	2.9	3.0	-
	HIPR	145	156	164	-	162	175	184	-	184	198	210	-	210	226	239	-	236	254	269	-
1200	LO PR	60	64	70	-	64	68	74	-	66	70	77	-	69	74	81	-	73	77	84	-
	MBh	36.1	37.6	41.5	-	35.2	36.7	40.6	-	34.3	35.8	39.7	-	33.4	34.9	38.8	-	31.9	33.4	37.3	-
	S/T	0.66	0.55	0.37	-	0.69	0.57	0.39	-	0.71	0.59	0.41	-	0.73	0.61	0.43	-	0.76	0.64	0.46	-
	Delta T	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-
	KW	2.82	2.90	3.02	-	2.90	2.98	3.10	-	2.92	3.00	3.12	-	2.92	3.00	3.12	-	2.92	3.00	3.12	-
	AMPS	2.2	2.3	2.4	-	2.3	2.4	2.5	-	2.4	2.5	2.6	-	2.5	2.6	2.7	-	2.6	2.7	2.8	-
	HIPR	141	152	161	-	148	160	170	-	155	167	178	-	162	174	185	-	169	181	192	-

75	Airflow	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75
	MBh	44.84	46.17	49.98	53.64	43.80	45.10	48.81	52.39	42.76	44.02	47.65	51.14	41.72	42.95	46.49	49.89	39.63	40.80	44.16	47.40
	S/T	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.91	0.81	0.62	0.40	0.94	0.84	0.64	0.41	0.97	0.87	0.66	0.42
	Delta T	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10
	KW	3.05	3.12	3.24	3.36	3.32	3.40	3.53	3.66	3.56	3.65	3.78	3.92	3.77	3.86	4.00	4.15	3.95	4.05	4.20	4.35
	AMPS	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.7	2.7	2.7	2.8	2.9	2.8	2.9	3.0	3.1	3.0	3.0	3.1	3.2
	HIPR	152	164	173	180	171	184	194	202	194	209	220	230	221	238	251	262	249	268	282	295
1600	LO PR	63	67	73	78	67	71	78	83	69	74	81	86	73	78	85	90	76	81	89	95
	MBh	43.5	44.8	48.5	52.1	42.5	43.8	47.4	50.9	41.5	42.7	46.3	49.7	40.5	41.7	45.1	48.4	38.5	39.6	42.9	46.0
	S/T	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40
	Delta T	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11
	KW	3.02	3.10	3.21	3.33	3.29	3.37	3.49	3.62	3.53	3.61	3.74	3.88	3.73	3.83	3.97	4.12	3.91	4.01	4.16	4.31
	AMPS	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.7	2.6	2.7	2.8	2.9	2.8	2.9	3.0	3.1	2.9	3.0	3.1	3.2
	HIPR	151	162	171	178	169	182	192	200	192	207	218	228	219	235	249	259	246	265	280	292
1400	LO PR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94
	MBh	40.2	41.4	44.8	48.1	39.3	40.4	43.7	46.9	38.3	39.5	42.7	45.8	37.4	38.49	41.7	44.7	35.5	36.6	39.6	42.5
	S/T	0.79	0.70	0.53	0.34	0.82	0.73	0.55	0.36	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.38	0.90	0.80	0.61	0.39
	Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	21	19	16	11
	KW	2.94	3.01	3.12	3.23	3.20	3.28	3.40	3.52	3.43	3.51	3.64	3.78	3.63	3.72	3.86	4.00	3.80	3.90	4.04	4.19
	AMPS	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.6	2.6	2.6	2.7	2.8	2.7	2.8	2.9	3.0	2.9	2.9	3.0	3.1
	HIPR	146	157	166	173	164	176	186	194	186	201	212	221	212	228	241	252	239	257	271	283
1200	LO PR	61	65	71	75	64	68	75	79	67	71	78	83	70	75	81	87	73	78	85	91
	MBh	36.1	37.6	41.5	45.2	35.2	36.7	40.6	44.3	34.3	35.8	39.7	43.4	33.4	34.9	38.8	42.5	31.9	33.4	37.3	41.0
	S/T	0.66	0.55	0.37	0.28	0.69	0.57	0.39	0.30	0.71	0.59	0.41	0.32	0.73	0.61	0.43	0.34	0.76	0.64	0.46	0.37
	Delta T	19	17	13	9	19	17	13	9	19	17	13	9	19	17	13	9	19	17	13	9
	KW	2.82	2.90	3.02	3.14	2.90	2.98	3.10	3.22	2.92	3.00	3.12	3.24	2.92	3.00	3.12	3.24	2.92	3.00	3.12	3.24
	AMPS	2.2	2.3	2.4	2.5	2.3	2.4	2.5	2.6	2.4	2.5	2.6	2.7	2.5	2.6	2.7	2.8	2.6	2.7	2.8	2.9
	HIPR	141	152	161	170	148	160	170	179	155	167	178	187	162	174	185	194	169	181	192	201

Shaded area is ACCA (TVA) conditions
IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMPS=outdoor unit amps (comp. +fan)
High and low pressures are measured at the liquid and suction service valves.

COOLING PERFORMANCE DATA

GSH130484A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH13048-4A* / ARUF61-00*-1* / ARUF48601A* Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

		Outdoor Ambient Temperature																													
		65					75					85					95					105					115				
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71						
80	MBh	45.64	46.64	49.83	53.26	44.58	45.55	48.67	52.03	43.52	44.47	47.51	50.79	42.46	43.38	46.35	49.55	40.33	41.21	44.03	47.07	37.36	38.18	40.79	43.60						
	S/T	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.82	0.62						
	Delta T	22	21	18	15	23	21	18	15	22	21	18	15	22	21	19	15	21	21	18	15	19	19	17	14						
	KW	3.08	3.15	3.27	3.39	3.35	3.43	3.56	3.69	3.59	3.68	3.82	3.96	3.80	3.90	4.04	4.19	3.98	4.08	4.23	4.39	4.14	4.24	4.40	4.57						
	AMPS	2.3	2.4	2.5	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8	2.9	2.8	2.9	3.0	3.1	3.0	3.1	3.1	3.3	3.1	3.2	3.3	3.4						
	HIPR	154	165	175	182	172	185	196	204	196	211	223	232	223	240	254	265	251	270	285	298	277	299	315	329						
	LO PR	64	68	74	79	68	72	78	84	70	75	82	87	74	78	86	91	77	82	90	96	80	85	93	99						
1600	MBh	44.3	45.3	48.4	51.7	43.3	44.2	47.3	50.5	42.3	43.2	46.1	49.3	41.2	42.1	45.0	48.1	39.2	40.0	42.8	45.7	36.3	37.1	39.6	42.3						
	S/T	0.90	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.95	0.89	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.96	0.78	0.58	1.00	0.96	0.78	0.59						
	Delta T	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	21	18	14						
	KW	3.05	3.12	3.24	3.36	3.32	3.40	3.53	3.66	3.56	3.65	3.78	3.92	3.77	3.86	4.00	4.15	3.95	4.05	4.20	4.35	4.10	4.20	4.36	4.52						
	AMPS	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.7	2.7	2.7	2.8	2.9	2.8	2.9	3.0	3.1	3.0	3.0	3.1	3.2	3.1	3.2	3.3	3.4						
	HIPR	152	164	173	180	171	184	194	202	194	209	220	230	221	238	251	262	249	268	283	295	275	296	312	326						
	LO PR	63	67	73	78	67	71	78	83	69	74	81	86	73	78	85	90	76	81	89	95	79	84	92	98						
1400	MBh	40.9	41.8	44.7	47.7	39.9	40.8	43.6	46.6	39.0	39.8	42.6	45.5	38.0	38.9	41.5	44.4	36.1	36.9	39.5	42.2	33.5	34.2	36.6	39.1						
	S/T	0.86	0.81	0.66	0.49	0.90	0.84	0.68	0.51	0.92	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.76	0.57						
	Δ	23	22	19	15	23	23	20	16	24	23	20	16	24	23	20	16	23	22	19	16	22	21	18	15						
	KW	2.97	3.04	3.15	3.26	3.23	3.31	3.43	3.55	3.46	3.54	3.67	3.81	3.66	3.75	3.89	4.04	3.84	3.93	4.08	4.23	3.99	4.09	4.24	4.40						
	AMPS	2.3	2.3	2.4	2.5	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.8	2.7	2.8	2.9	3.0	2.9	3.0	3.0	3.1	3.0	3.1	3.2	3.3						
	HIPR	147	159	168	175	165	178	188	196	188	203	214	223	214	231	244	254	241	260	274	286	266	287	303	316						
	LO PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	88	74	79	86	92	77	82	89	95						
85	MBh	46.44	47.34	49.58	52.89	45.36	46.24	48.42	51.66	44.28	45.14	47.27	50.43	43.20	44.03	46.12	49.20	41.04	41.83	43.81	46.74	38.01	38.75	40.58	43.30						
	S/T	0.98	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.98	0.79	1.00	1.00	0.98	0.80						
	Delta T	23	23	22	19	23	23	22	19	23	23	22	19	22	22	22	19	21	21	22	19	19	20	20	18						
	KW	3.11	3.18	3.30	3.42	3.38	3.46	3.59	3.72	3.62	3.71	3.85	3.99	3.84	3.93	4.08	4.23	4.02	4.12	4.27	4.44	4.18	4.28	4.44	4.61						
	AMPS	2.4	2.4	2.5	2.6	2.5	2.6	2.6	2.7	2.7	2.8	2.8	2.9	2.9	2.9	3.0	3.1	3.0	3.1	3.2	3.3	3.2	3.2	3.3	3.5						
	HIPR	155	167	176	184	174	187	198	206	198	213	225	235	225	243	256	267	254	273	288	301	280	302	318	332						
	LO PR	65	69	75	80	68	73	79	84	71	75	82	88	74	79	86	92	78	83	91	97	81	86	94	100						
1600	MBh	45.1	46.0	48.1	51.4	44.0	44.9	47.0	50.2	43.0	43.8	45.9	49.0	41.9	42.8	44.8	47.8	39.8	40.6	42.5	45.4	36.9	37.6	39.4	42.0						
	S/T	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.96	0.87	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.94	0.76						
	Delta T	24	24	23	20	25	24	23	20	25	24	23	20	24	24	23	20	23	23	23	20	21	22	21	18						
	KW	3.08	3.15	3.27	3.39	3.35	3.43	3.56	3.69	3.59	3.68	3.82	3.96	3.80	3.90	4.04	4.19	3.98	4.08	4.23	4.39	4.14	4.24	4.40	4.57						
	AMPS	2.3	2.4	2.5	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8	2.9	2.8	2.9	3.0	3.1	3.0	3.1	3.1	3.3	3.1	3.2	3.3	3.4						
	HIPR	154	165	175	182	172	185	196	204	196	211	223	232	223	240	254	265	251	270	285	298	277	299	315	329						
	LO PR	64	68	74	79	68	72	78	84	70	75	82	87	74	78	86	91	77	82	90	96	80	85	93	99						
1400	MBh	41.6	42.4	44.4	47.4	40.6	41.4	43.4	46.3	39.7	40.4	42.4	45.2	38.7	39.5	41.3	44.1	36.8	37.5	39.3	41.9	34.1	34.7	36.4	38.8						
	S/T	0.91	0.87	0.79	0.64	0.94	0.91	0.82	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.91	0.73						
	Delta T	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	24	24	23	20	22	23	22	19						
	KW	2.99	3.07	3.18	3.29	3.26	3.34	3.46	3.59	3.49	3.58	3.71	3.85	3.70	3.79	3.93	4.08	3.87	3.97	4.12	4.27	4.02	4.12	4.28	4.44						
	AMPS	2.3	2.3	2.4	2.5	2.4	2.5	2.6	2.6	2.6	2.7	2.7	2.8	2.8	2.8	2.9	3.0	2.9	3.0	3.1	3.2	3.1	3.1	3.2	3.4						
	HIPR	149	160	169	177	167	180	190	198	190	205	216	225	217	233	246	257	244	262	277	289	269	290	306	319						
	LO PR	62	66	72	77	66	70	76	81	68	72	79	84	72	76	83	88	75	80	87	93	78	82	90	96						

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH13060-4A* / ARUF61-00*.1* / ARUF48601A*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

IDB			Airflow			Outdoor Ambient Temperature																																																																							
						65												75												85												95												105												115											
						Entering Indoor Wet Bulb Temperature																																																																							
70	2025	MBh	54.4	56.4	61.8	-	53.1	55.1	60.3	-	51.9	53.7	58.9	-	50.6	52.4	57.5	-	48.1	49.8	54.6	-	44.5	46.1	50.6	-	44.5	46.1	50.6	-	44.5	46.1	50.6	-																																											
		S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-	0.83	0.69	0.48	-	0.83	0.69	0.48	-																																											
		Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-	17	15	11	-																																											
		KW	3.98	4.06	4.18	-	4.26	4.35	4.48	-	4.52	4.61	4.75	-	4.74	4.84	4.99	-	4.93	5.04	5.19	-	5.09	5.20	5.37	-	5.09	5.20	5.37	-	5.09	5.20	5.37	-																																											
		AMPS	3.2	3.2	3.3	-	3.3	3.3	3.3	-	3.3	3.3	3.3	-	3.3	3.4	3.4	-	3.4	3.4	3.4	-	3.4	3.4	3.5	-	3.4	3.4	3.5	-	3.4	3.4	3.5	-																																											
	1800	HI PR	152	163	173	-	170	183	194	-	194	209	220	-	221	238	251	-	248	267	282	-	274	295	312	-	274	295	312	-	274	295	312	-																																											
		LO PR	59	62	68	-	62	66	72	-	64	68	75	-	68	72	78	-	71	75	82	-	73	78	85	-	73	78	85	-	73	78	85	-																																											
		MBh	52.8	54.7	60.0	-	51.6	53.5	58.6	-	50.3	52.2	57.2	-	49.1	50.9	55.8	-	46.7	48.4	53.0	-	43.2	44.8	49.1	-	43.2	44.8	49.1	-	43.2	44.8	49.1	-																																											
		S/T	0.69	0.58	0.40	-	0.71	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.79	0.66	0.46	-	0.79	0.66	0.46	-	0.79	0.66	0.46	-																																											
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	17	15	11	-	17	15	11	-																																											
1575	1800	KW	3.95	4.03	4.14	-	4.23	4.32	4.45	-	4.48	4.57	4.72	-	4.70	4.80	4.95	-	4.89	5.00	5.15	-	5.05	5.16	5.33	-	5.05	5.16	5.33	-	5.05	5.16	5.33	-																																											
		AMPS	3.2	3.2	3.2	-	3.3	3.3	3.3	-	3.3	3.3	3.3	-	3.3	3.4	3.4	-	3.4	3.4	3.4	-	3.4	3.4	3.5	-	3.4	3.4	3.5	-	3.4	3.4	3.5	-																																											
		HI PR	150	162	171	-	169	182	192	-	192	206	218	-	219	235	248	-	246	265	279	-	272	292	309	-	272	292	309	-	272	292	309	-																																											
		LO PR	58	62	67	-	61	65	71	-	64	68	74	-	67	71	78	-	70	75	81	-	73	77	84	-	73	77	84	-	73	77	84	-																																											
		MBh	48.7	50.5	55.3	-	47.6	49.3	54.1	-	46.5	48.2	52.8	-	45.3	47.0	51.5	-	43.1	44.6	48.9	-	39.9	41.4	45.3	-	39.9	41.4	45.3	-	39.9	41.4	45.3	-																																											
	1575	S/T	0.67	0.56	0.38	-	0.69	0.58	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.76	0.63	0.44	-	0.76	0.63	0.44	-	0.76	0.63	0.44	-																																											
		Delta T	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	13	-	18	15	12	-	18	15	12	-	18	15	12	-																																											
		KW	3.86	3.94	4.05	-	4.14	4.22	4.34	-	4.38	4.47	4.60	-	4.59	4.69	4.83	-	4.78	4.88	5.03	-	4.93	5.04	5.20	-	4.93	5.04	5.20	-	4.93	5.04	5.20	-																																											
		AMPS	3.2	3.2	3.2	-	3.2	3.3	3.3	-	3.3	3.3	3.3	-	3.3	3.3	3.4	-	3.4	3.4	3.4	-	3.4	3.4	3.4	-	3.4	3.4	3.4	-	3.4	3.4	3.4	-																																											
		HI PR	146	157	166	-	164	176	186	-	186	200	211	-	212	228	241	-	238	257	271	-	263	284	299	-	263	284	299	-	263	284	299	-																																											
LO PR	56	60	65	-	59	63	69	-	62	66	72	-	65	69	75	-	68	72	79	-	70	75	82	-	70	75	82	-	70	75	82	-																																													

75																																			
2025										1800										1575															
MBh	55.31	56.94	61.64	66.15	54.02	55.62	60.20	64.61	52.73	54.30	58.77	63.08	51.45	52.97	57.34	61.54	48.88	50.32	54.47	58.46	45.27	46.61	50.46	54.15											
S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.94	0.84	0.64	0.41											
Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10							
KW	4.01	4.09	4.21	4.34	4.30	4.38	4.52	4.66	4.55	4.65	4.79	4.94	4.78	4.88	5.03	5.19	4.97	5.08	5.24	5.41	5.14	5.25	5.41	5.59											
AMPS	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.4	3.5	3.5	3.5											
HI PR	153	165	174	182	172	185	196	204	196	211	222	232	223	240	253	264	251	270	285	297	277	298	315	328											
LO PR	59	63	69	73	63	67	73	77	65	69	75	80	68	73	79	84	72	76	83	88	74	79	86	92											
MBh	53.7	55.3	59.8	64.2	52.4	54.0	58.4	62.7	51.2	52.7	57.1	61.2	50.0	51.4	55.7	59.7	47.5	48.9	52.9	56.8	44.0	45.3	49.0	52.6											
S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39											
Delta T	22	20	16	11	22	20	16	11	22	20	16	11	22	20	17	11	22	20	16	11	20	19	15	11											
KW	3.98	4.06	4.18	4.30	4.26	4.35	4.48	4.62	4.52	4.61	4.75	4.90	4.74	4.84	4.99	5.15	4.93	5.04	5.19	5.36	5.10	5.20	5.37	5.54											
AMPS	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.4	3.4	3.5	3.5											
HI PR	152	163	173	180	170	183	194	202	194	209	220	230	221	238	251	262	248	267	282	294	274	295	312	325											
LO PR	59	62	68	72	62	66	72	77	64	68	75	80	68	72	79	84	71	75	82	88	73	78	85	91											
MBh	49.6	51.0	55.2	59.3	48.4	49.8	53.9	57.9	47.3	48.7	52.7	56.5	46.1	47.47	51.4	55.1	43.8	45.1	48.8	52.4	40.6	41.8	45.2	48.5											
S/T	0.76	0.68	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.87	0.78	0.59	0.38											
Delta T	22	20	16	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	11	21	19	16	11											
KW	3.89	3.97	4.08	4.20	4.17	4.25	4.38	4.51	4.41	4.50	4.64	4.79	4.63	4.73	4.87	5.03	4.81	4.92	5.07	5.23	4.97	5.08	5.24	5.41											
AMPS	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5											
HI PR	147	159	167	175	165	178	188	196	188	202	214	223	214	230	243	254	241	259	274	286	266	286	302	315											
LO PR	57	60	66	70	60	64	70	74	62	66	72	77	66	70	76	81	69	73	80	85	71	76	83	88											

COOLING PERFORMANCE DATA

GSH130604A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSH13060-4A* / ARUF61-00*-1* / ARUF48601A*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

		Outdoor Ambient Temperature																							
		65				75				85				95				105				115			
		Entering Indoor Wet Bulb Temperature																							
2025	MBh	56.29	57.52	61.45	65.69	54.98	56.18	60.02	64.16	53.67	54.84	58.59	62.64	52.36	53.51	57.17	61.11	49.74	50.83	54.31	58.05	46.08	47.09	50.31	53.78
	S/T	0.90	0.85	0.69	0.51	0.93	0.88	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.75	0.56	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59
	Delta T	23	22	19	15	23	22	19	16	23	22	19	16	24	23	20	16	23	22	19	15	21	21	18	14
	KW	4.04	4.12	4.24	4.37	4.33	4.42	4.55	4.69	4.59	4.68	4.83	4.98	4.82	4.92	5.07	5.23	5.01	5.12	5.28	5.45	5.18	5.29	5.46	5.64
	AMPS	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.4	3.5	3.5	3.5
	HI PR	155	167	176	184	174	187	198	206	198	213	225	234	225	242	256	267	253	273	288	300	280	301	318	332
	LO PR	60	64	69	74	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	89	75	80	87	92
1800	MBh	54.7	55.8	59.7	63.8	53.4	54.5	58.3	62.3	52.1	53.2	56.9	60.8	50.8	51.9	55.5	59.3	48.3	49.4	52.7	56.4	44.7	45.7	48.8	52.2
	S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56
	Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	23	22	19	15
	KW	4.01	4.09	4.21	4.34	4.30	4.38	4.52	4.66	4.55	4.65	4.79	4.94	4.78	4.88	5.03	5.19	4.97	5.08	5.24	5.41	5.14	5.25	5.41	5.59
	AMPS	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.4	3.5	3.5	3.5
	HI PR	153	165	174	182	172	185	196	204	196	211	222	232	223	240	253	264	251	270	285	297	277	298	315	329
	LO PR	59	63	69	73	63	67	73	77	65	69	75	80	68	73	79	84	72	76	83	89	74	79	86	92
1575	MBh	50.4	51.5	55.1	58.9	49.3	50.3	53.8	57.5	48.1	49.1	52.5	56.1	46.9	47.9	51.2	54.8	44.6	45.6	48.7	52.0	41.3	42.2	45.1	48.2
	S/T	0.83	0.78	0.63	0.47	0.86	0.81	0.66	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.89	0.72	0.54	0.95	0.89	0.73	0.54
	Delta T	24	23	20	16	25	24	21	16	25	24	21	16	25	24	21	17	25	24	20	16	23	22	19	15
	KW	3.92	4.00	4.11	4.24	4.20	4.28	4.41	4.55	4.45	4.54	4.68	4.82	4.67	4.76	4.91	5.07	4.85	4.95	5.11	5.27	5.01	5.12	5.28	5.45
	AMPS	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.5
	HI PR	149	160	169	176	167	180	190	198	190	204	216	225	216	233	246	256	243	262	277	288	269	289	306	319
	LO PR	57	61	67	71	61	65	70	75	63	67	73	78	66	70	77	82	69	74	81	86	72	76	83	89

2025	MBh	57.27	58.38	61.15	65.23	55.94	57.02	59.72	63.72	54.61	55.67	58.30	62.20
	S/T	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.87	0.71
	Delta T	25	24	23	20	25	24	23	20	25	24	23	20
	KW	4.07	4.15	4.27	4.40	4.36	4.45	4.59	4.73	4.62	4.72	4.87	5.02
	AMPS	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4
	HI PR	157	168	178	185	176	189	200	208	200	215	227	237
	LO PR	60	64	70	75	64	68	74	79	66	71	77	82
1800	MBh	55.6	56.7	59.4	63.3	54.3	55.4	58.0	61.9	53.0	54.0	56.6	60.4
	S/T	0.90	0.87	0.79	0.64	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.68
	Delta T	26	25	24	21	26	25	24	21	26	26	24	21
	KW	4.04	4.12	4.24	4.37	4.33	4.42	4.55	4.69	4.59	4.68	4.83	4.98
	AMPS	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.4
	HI PR	155	167	176	184	174	187	198	206	198	213	225	234
	LO PR	60	64	69	74	63	67	73	78	66	70	76	81
1575	MBh	51.3	52.3	54.8	58.5	50.1	51.1	53.5	57.1	48.9	49.9	52.2	55.7
	S/T	0.87	0.84	0.76	0.61	0.90	0.87	0.78	0.64	0.92	0.89	0.80	0.65
	Delta T	26	26	24	21	26	26	25	21	26	26	25	21
	KW	3.95	4.02	4.14	4.27	4.23	4.32	4.45	4.58	4.48	4.57	4.71	4.86
	AMPS	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4
	HI PR	150	162	171	178	169	181	192	200	192	206	218	227
	LO PR	58	62	67	72	61	65	71	76	64	68	74	79

Shaded area is AHRI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMP=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

COOLING PERFORMANCE DATA

VSH130181A*

EXPANDED PERFORMANCE DATA																						COOLING OPERATION													
MODEL: VSH130181A* / AR*F182416B*																						Design Subcooling 9 ±3 °F @ the liquid service valve, AHR195 test conditions													
Outdoor Ambient Temperature																																			
65						75						85						95						105						115					
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71														
70	675	MBh	17.6	18.3	20.0	-	17.2	17.9	19.6	-	16.8	17.4	19.1	-	16.4	17.0	18.6	-	15.6	16.2	17.7	-													
		S/T	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.84	0.70	0.49	-													
		DELTA T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-													
		KW	1.26	1.29	1.33	-	1.36	1.39	1.43	-	1.44	1.47	1.52	-	1.51	1.55	1.59	-	1.57	1.61	1.66	-													
		AMPS	4.8	4.9	5.1	-	5.2	5.3	5.5	-	5.6	5.7	5.9	-	6.0	6.1	6.3	-	6.4	6.5	6.7	-													
	600	HI PR	137	147	156	-	154	165	175	-	175	188	199	-	199	214	226	-	224	241	255	-													
		LO PR	63	67	73	-	66	70	77	-	69	73	80	-	72	77	84	-	76	81	88	-													
		MBh	17.1	17.7	19.4	-	16.7	17.3	19.0	-	16.3	16.9	18.5	-	15.9	16.5	18.1	-	15.1	15.7	17.2	-													
		S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-													
		DELTA T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-													
525	675	KW	1.26	1.28	1.32	-	1.35	1.38	1.42	-	1.43	1.46	1.50	-	1.50	1.53	1.58	-	1.56	1.60	1.65	-													
		AMPS	4.8	4.9	5.0	-	5.1	5.2	5.4	-	5.6	5.7	5.9	-	5.9	6.1	6.3	-	6.3	6.4	6.7	-													
		HI PR	136	146	154	-	152	164	173	-	173	186	197	-	197	212	224	-	222	239	252	-													
		LO PR	62	66	72	-	66	70	76	-	68	72	79	-	72	76	83	-	75	80	87	-													
		MBh	15.8	16.4	17.9	-	15.4	16.0	17.5	-	15.1	15.6	17.1	-	14.7	15.2	16.7	-	14.0	14.5	15.9	-													
	600	S/T	0.68	0.57	0.39	-	0.70	0.59	0.41	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.45	-													
		DELTA T	19	16	12	-	19	16	12	-	19	16	12	-	19	17	13	-	19	16	12	-													
		KW	1.23	1.25	1.29	-	1.32	1.34	1.38	-	1.40	1.42	1.47	-	1.47	1.50	1.54	-	1.52	1.56	1.61	-													
		AMPS	4.6	4.7	4.9	-	5.0	5.1	5.3	-	5.4	5.5	5.7	-	5.8	5.9	6.1	-	6.1	6.3	6.5	-													
		HI PR	132	142	150	-	148	159	168	-	168	181	191	-	191	206	217	-	215	232	245	-													
LO PR	60	64	70	-	64	68	74	-	66	70	77	-	69	74	81	-	73	77	84	-															
75	675	MBh	17.94	18.47	19.99	21.45	17.52	18.04	19.53	20.96	17.10	17.61	19.06	20.46	16.69	17.18	18.60	19.96	15.85	16.32	17.67	18.96													
		S/T	0.84	0.75	0.57	0.36	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.65	0.42													
		DELTA T	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11													
		KW	1.27	1.30	1.34	1.38	1.37	1.40	1.44	1.49	1.45	1.48	1.53	1.58	1.53	1.56	1.61	1.66	1.59	1.62	1.67	1.73													
		AMPS	4.8	4.9	5.1	5.3	5.2	5.3	5.5	5.7	5.7	5.8	6.0	6.2	6.0	6.2	6.4	6.6	6.4	6.6	6.8	7.0													
	600	HI PR	138	149	157	164	155	167	177	184	177	190	201	209	201	217	229	238	226	244	257	268													
		LO PR	63	67	74	78	67	71	78	83	70	74	81	86	73	78	85	90	77	81	89	95													
		MBh	17.4	17.9	19.4	20.8	17.0	17.5	19.0	20.3	16.6	17.1	18.5	19.9	16.2	16.7	18.1	19.4	15.4	15.8	17.2	18.4													
		S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40													
		DELTA T	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11													
525	675	KW	1.27	1.29	1.33	1.37	1.36	1.39	1.43	1.47	1.44	1.47	1.52	1.57	1.51	1.55	1.59	1.65	1.58	1.61	1.66														
		AMPS	4.8	4.9	5.1	5.2	5.2	5.3	5.5	5.7	5.6	5.7	5.9	6.1	6.0	6.1	6.3	6.6	6.4	6.5	6.7														
		HI PR	137	147	156	162	154	166	175	182	175	188	199	207	199	214	226	236	224	241	255														
		LO PR	63	67	73	78	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88														
		MBh	16.1	16.5	17.9	19.2	15.7	16.2	17.5	18.8	15.3	15.8	17.1	18.3	15.0	15.40	16.7	17.9	14.2	14.6	15.8														
	600	S/T	0.77	0.69	0.52	0.34	0.80	0.71	0.54	0.35	0.82	0.73	0.55	0.36	0.84	0.76	0.57	0.37	0.88	0.78	0.59														
		DELTA T	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16														
		KW	1.24	1.26	1.30	1.34	1.33	1.35	1.40	1.44	1.41	1.44	1.48	1.53	1.48	1.51	1.56	1.61	1.54	1.57	1.62														
		AMPS	4.7	4.8	4.9	5.1	5.0	5.1	5.3	5.5	5.5	5.6	5.8	6.0	5.8	6.0	6.2	6.4	6.2	6.3	6.5														
		HI PR	133	143	151	158	149	161	170	177	170	183	193	201	193	208	220	229	217	234	247														
LO PR	61	65	71	75	64	68	75	79	67	71	78	83	70	75	81	87	73	78	85																
Shaded area is ACCA (TVA) conditions																						KW=Total system power													
IDB: Entering Indoor Dry Bulb Temperature																						Amps=outdoor unit amps (comp.+fan)													
High and low pressures are measured at the liquid and suction service valves.																																			

COOLING PERFORMANCE DATA

VSH130181A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VSH130181A* / AR*F182416B*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHR195 test conditions

		Outdoor Ambient Temperature				95				105				115			
		65		75		85		Entering Indoor Wet Bulb Temperature		85		95		105		115	
675	MBh	18.26	18.65	19.93	21.31	17.83	18.22	19.47	20.81	17.41	17.79	19.00	20.31	16.98	17.35	18.54	19.82
	ST	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	1.00	0.92	0.74	0.56	1.00	0.94	0.77	0.57
	DELTA T	23	22	19	15	23	22	19	15	24	22	19	15	22	22	19	15
	KW	1.28	1.31	1.35	1.39	1.38	1.41	1.45	1.50	1.46	1.49	1.54	1.59	1.54	1.57	1.62	1.67
	AMPS	4.9	5.0	5.2	5.3	5.3	5.4	5.6	5.8	5.7	5.8	6.0	6.3	6.1	6.2	6.4	6.7
	HI PR	140	150	159	166	157	169	178	186	178	192	203	211	203	219	231	241
	LO PR	64	68	74	79	68	72	78	84	70	75	82	87	74	78	86	91
600	MBh	17.7	18.1	19.4	20.7	17.3	17.7	18.9	20.2	16.9	17.3	18.5	19.7	16.5	16.8	18.0	19.2
	ST	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55
	DELTA T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16
	KW	1.27	1.30	1.34	1.38	1.37	1.40	1.44	1.49	1.45	1.48	1.53	1.58	1.53	1.56	1.61	1.66
	AMPS	4.8	4.9	5.1	5.3	5.2	5.3	5.5	5.7	5.7	5.8	6.0	6.2	6.0	6.2	6.4	6.6
	HI PR	138	149	157	164	155	167	177	184	177	190	201	209	201	217	229	239
	LO PR	63	67	74	78	67	71	78	83	70	74	81	86	73	78	85	90
525	MBh	16.4	16.7	17.9	19.1	16.0	16.3	17.4	18.6	15.6	15.9	17.0	18.2	15.2	15.6	16.6	17.8
	ST	0.84	0.79	0.64	0.48	0.88	0.82	0.67	0.50	0.90	0.84	0.69	0.51	0.93	0.87	0.71	0.53
	DELTA T	24	23	20	16	24	23	20	16	25	23	20	16	25	24	21	16
	KW	1.25	1.27	1.31	1.35	1.34	1.36	1.41	1.45	1.42	1.45	1.49	1.54	1.49	1.52	1.57	1.62
	AMPS	4.7	4.8	5.0	5.1	5.1	5.2	5.4	5.6	5.5	5.6	5.8	6.0	5.9	6.0	6.2	6.4
	HI PR	134	145	153	159	151	162	171	179	171	184	195	203	195	210	222	231
	LO PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	88

675	MBh	18.58	18.93	19.83	21.16	18.14	18.49	19.37	20.66	17.71	18.05	18.91	20.17	17.28	17.61	18.45	19.68
	ST	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75
	DELTA T	24	24	23	20	25	24	23	20	24	24	23	20	22	23	23	20
	KW	1.29	1.32	1.36	1.40	1.39	1.42	1.46	1.51	1.48	1.51	1.55	1.60	1.55	1.58	1.63	1.69
	AMPS	4.9	5.0	5.2	5.4	5.3	5.4	5.6	5.8	5.8	5.9	6.1	6.3	6.1	6.3	6.5	6.7
	HI PR	141	152	160	167	158	171	180	188	180	194	205	214	205	221	233	243
	LO PR	65	69	75	80	68	73	79	84	71	75	82	88	74	79	87	92
600	MBh	18.0	18.4	19.3	20.5	17.6	18.0	18.8	20.1	17.2	17.5	18.4	19.6	16.8	17.1	17.9	19.1
	ST	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.88	0.71
	DELTA T	25	25	24	20	26	25	24	21	26	25	24	21	26	25	24	21
	KW	1.28	1.31	1.35	1.39	1.38	1.41	1.45	1.50	1.46	1.49	1.54	1.59	1.54	1.57	1.62	1.67
	AMPS	4.9	5.0	5.2	5.3	5.3	5.4	5.6	5.8	5.7	5.8	6.0	6.3	6.1	6.2	6.4	6.7
	HI PR	140	150	159	166	157	169	178	186	178	192	203	211	203	219	231	241
	LO PR	64	68	74	79	68	72	78	84	70	75	82	87	74	78	86	91
525	MBh	16.6	17.0	17.8	19.0	16.3	16.6	17.4	18.5	15.9	16.2	16.9	18.1	15.5	15.8	16.5	17.6
	ST	0.89	0.85	0.77	0.63	0.92	0.89	0.80	0.65	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69
	DELTA T	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21
	KW	1.26	1.28	1.32	1.36	1.35	1.38	1.42	1.46	1.43	1.46	1.50	1.55	1.50	1.53	1.58	1.63
	AMPS	4.7	4.9	5.0	5.2	5.1	5.2	5.4	5.6	5.6	5.7	5.9	6.1	5.9	6.1	6.3	6.5
	HI PR	136	146	154	161	152	164	173	180	173	186	197	205	197	212	224	234
	LO PR	62	66	72	77	66	70	76	81	68	72	79	84	72	76	83	88

Shaded area is AHR1 Rating Conditions

IDB: Entering Indoor Dry Bulb Temperature

KW= Total system power

AMPS= outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

COOLING PERFORMANCE DATA

VSH130191A*

EXPANDED PERFORMANCE DATA
MODEL: VSH130191A* / AWUF18XX16A*
Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

MODEL: VSH130191A* / AWUF18XX16A*																												EXPANDED PERFORMANCE DATA												COOLING OPERATION																			
Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions																																																											
Outdoor Ambient Temperature																																																											
65										75										85										95										105										115									
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																														
675	MBh	17.6	18.3	20.0	-	17.2	17.9	19.6	-	16.8	17.4	19.1	-	16.4	17.0	18.6	-	15.6	16.2	17.7	-	14.4	15.0	16.4	-	14.4	15.0	16.4	-																														
	S/T	0.74	0.61	0.43	-	0.76	0.64	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.84	0.70	0.48	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-																														
	DELTA T	18	15	12	-	18	15	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-	17	14	11	-																														
	KW	1.25	1.27	1.31	-	1.33	1.36	1.40	-	1.41	1.44	1.48	-	1.47	1.50	1.55	-	1.53	1.56	1.61	-	1.58	1.61	1.66	-	1.58	1.61	1.66	-																														
	AMPS	4.0	4.1	4.2	-	4.3	4.4	4.5	-	4.6	4.7	4.9	-	4.9	5.0	5.2	-	5.2	5.3	5.4	-	5.4	5.6	5.7	-	5.4	5.6	5.7	-																														
600	HI PR	136	146	155	-	153	164	173	-	174	187	197	-	198	213	225	-	222	239	253	-	246	264	279	-	246	264	279	-																														
	LO PR	61	65	71	-	65	69	75	-	67	71	78	-	70	75	82	-	74	79	86	-	76	81	89	-	76	81	89	-																														
	MBh	17.1	17.7	19.4	-	16.7	17.3	19.0	-	16.3	16.9	18.5	-	15.9	16.5	18.1	-	15.1	15.7	17.2	-	14.0	14.5	15.9	-	14.0	14.5	15.9	-																														
	S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.81	0.67	0.47	-	0.81	0.67	0.47	-																														
	DELTA T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	17	15	11	-																														
525	KW	1.24	1.26	1.30	-	1.32	1.35	1.39	-	1.40	1.43	1.47	-	1.46	1.49	1.54	-	1.52	1.55	1.60	-	1.57	1.60	1.65	-	1.57	1.60	1.65	-																														
	AMPS	4.0	4.1	4.2	-	4.3	4.4	4.5	-	4.6	4.7	4.8	-	4.9	5.0	5.1	-	5.1	5.2	5.4	-	5.4	5.5	5.7	-	5.4	5.5	5.7	-																														
	HI PR	135	145	153	-	151	163	172	-	172	185	195	-	196	211	222	-	220	237	250	-	243	262	277	-	243	262	277	-																														
	LO PR	61	64	70	-	64	68	74	-	66	71	77	-	70	74	81	-	73	78	85	-	76	80	88	-	76	80	88	-																														
	MBh	15.8	16.4	17.9	-	15.4	16.0	17.5	-	15.1	15.6	17.1	-	14.7	15.2	16.7	-	14.0	14.5	15.9	-	12.9	13.4	14.7	-	12.9	13.4	14.7	-																														
525	S/T	0.68	0.57	0.39	-	0.70	0.59	0.41	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.78	0.65	0.45	-	0.78	0.65	0.45	-																														
	DELTA T	19	16	12	-	19	16	12	-	19	16	12	-	19	17	13	-	19	16	12	-	18	15	12	-	18	15	12	-																														
	KW	1.22	1.24	1.27	-	1.30	1.32	1.36	-	1.37	1.39	1.43	-	1.43	1.46	1.50	-	1.48	1.51	1.56	-	1.53	1.56	1.61	-	1.53	1.56	1.61	-																														
	AMPS	3.9	4.0	4.1	-	4.2	4.3	4.4	-	4.5	4.6	4.7	-	4.7	4.8	5.0	-	5.0	5.1	5.3	-	5.3	5.4	5.5	-	5.3	5.4	5.5	-																														
	HI PR	131	141	148	-	147	158	167	-	167	179	189	-	190	204	216	-	214	230	243	-	236	254	268	-	236	254	268	-																														
70	LO PR	59	62	68	-	62	66	72	-	64	69	75	-	68	72	79	-	71	75	82	-	73	78	85	-	73	78	85	-																														

75	675	MBh	17.94	18.47	19.99	21.45	17.52	18.04	19.53	20.96	17.10	17.61	19.06	20.46	16.69	17.18	18.60	19.96	15.85	16.32	17.67	18.96	14.68	15.12	16.36	17.56
		S/T	0.84	0.75	0.57	0.36	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.65	0.41	0.96	0.86	0.65	0.42
		DELTA T	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	14	10
		KW	1.26	1.28	1.32	1.36	1.34	1.37	1.41	1.45	1.42	1.45	1.49	1.53	1.49	1.52	1.56	1.61	1.54	1.57	1.62	1.67	1.59	1.62	1.67	1.72
		AMPS	4.1	4.1	4.3	4.4	4.3	4.4	4.6	4.7	4.7	4.8	4.9	5.1	4.9	5.0	5.2	5.4	5.2	5.3	5.5	5.7	5.5	5.6	5.8	6.0
	600	HI PR	137	148	156	163	154	166	175	183	175	189	199	208	200	215	227	237	225	242	255	266	248	267	282	294
		LO PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	79	87	92	77	82	90	95
		MBh	17.4	17.9	19.4	20.8	17.0	17.5	19.0	20.3	16.6	17.1	18.5	19.9	16.2	16.7	18.1	19.4	15.4	15.8	17.2	18.4	14.3	14.7	15.9	17.1
		S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.92	0.82	0.62	0.40
		DELTA T	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10
525	KW	1.25	1.27	1.31	1.35	1.33	1.36	1.40	1.44	1.41	1.44	1.48	1.52	1.47	1.50	1.55	1.60	1.53	1.56	1.61	1.66	1.58	1.61	1.66	1.71	
	AMPS	4.0	4.1	4.2	4.4	4.3	4.4	4.5	4.7	4.6	4.7	4.9	5.0	4.9	5.0	5.2	5.3	5.2	5.3	5.4	5.6	5.5	5.6	5.7	5.9	
	HI PR	136	146	155	161	153	164	173	181	174	187	197	206	198	213	225	234	222	239	253	264	246	265	279	291	
	LO PR	61	65	71	76	65	69	75	80	67	71	78	83	71	75	82	87	74	79	86	91	76	81	89	95	
	MBh	16.1	16.5	17.9	19.2	15.7	16.2	17.5	18.8	15.3	15.8	17.1	18.3	15.0	15.40	16.7	17.9	14.2	14.6	15.8	17.0	13.2	13.5	14.7	15.7	
S/T	0.77	0.69	0.52	0.34	0.80	0.71	0.54	0.35	0.82	0.73	0.55	0.36	0.84	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.88	0.79	0.60	0.38		
DELTA T	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16	11	20	19	15	11		
600	KW	1.22	1.25	1.28	1.32	1.31	1.33	1.37	1.41	1.38	1.40	1.45	1.49	1.44	1.47	1.51	1.56	1.50	1.53	1.57	1.62	1.54	1.57	1.62	1.67	
	AMPS	3.9	4.0	4.1	4.3	4.2	4.3	4.4	4.5	4.5	4.6	4.7	4.9	4.8	4.9	5.0	5.2	5.0	5.2	5.3	5.5	5.3	5.4	5.6	5.8	
	HI PR	132	142	150	156	148	159	168	176	168	181	191	200	192	206	218	227	216	232	245	256	238	257	271	283	
	LO PR	59	63	69	73	63	67	73	77	65	69	76	81	68	73	79	85	72	76	83	89	74	79	86	92	
	MBh	15.7	16.1	17.5	18.8	15.3	15.8	17.1	18.3	15.0	15.40	16.7	17.9	14.2	14.6	15.8	17.0	13.2	13.5	14.7	15.7	13.2	13.5	14.7	15.7	
S/T	0.77	0.69	0.52	0.34	0.80	0.71	0.54	0.35	0.82	0.73	0.55	0.36	0.84	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.88	0.79	0.60	0.38		
DELTA T	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16	11	20	19	15	11		
525	KW	1.22	1.25	1.28	1.32	1.31	1.33	1.37	1.41	1.38	1.40	1.45	1.49	1.44	1.47	1.51	1.56	1.50	1.53	1.57	1.62	1.54	1.57	1.62	1.67	
	AMPS	3.9	4.0	4.1	4.3	4.2	4.3	4.4	4.5	4.5	4.6	4.7	4.9	4.8	4.9	5.0	5.2	5.0	5.2	5.3	5.5	5.3	5.4	5.6	5.8	
	HI PR	132	142	150	156	148	159	168	176	168	181	191	200	192	206	218	227	216	232	245	256	238	257	271	283	
	LO PR	59	63	69	73	63	67	73	77	65	69	76	81	68	73	79	85	72	76	83	89	74	79	86	92	
	MBh	15.7	16.1	17.5	18.8	15.3	15.8	17.1	18.3	15.0	15.40	16.7	17.9	14.2	14.6	15.8	17.0	13.2	13.5	14.7	15.7	13.2	13.5	14.7	15.7	
S/T	0.77	0.69	0.52	0.34	0.80	0.71	0.54	0.35	0.82	0.73	0.55	0.36	0.84	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.88	0.79	0.60	0.38		
DELTA T	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16	11	20	19	15	11		

COOLING PERFORMANCE DATA

VSH130191A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VSH130191A* / AWUF18XX16A*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

		Outdoor Ambient Temperature																							
		65				75				85				95				105				115			
		Entering Indoor Wet Bulb Temperature																							
675	MBh	18.26	18.65	19.93	21.31	17.83	18.22	19.47	20.81	17.41	17.79	19.00	20.31	16.98	17.35	18.54	19.82	16.13	16.49	17.61	18.83	14.94	15.27	16.32	17.44
	S/T	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	1.00	0.91	0.74	0.56	1.00	0.94	0.77	0.57	1.00	1.00	0.80	0.60	1.00	1.00	0.80	0.60
	DELTA T	23	22	19	15	23	22	19	15	24	22	19	15	23	22	19	16	22	22	19	15	20	21	18	14
	KW	1.27	1.29	1.33	1.37	1.35	1.38	1.42	1.46	1.43	1.46	1.50	1.55	1.50	1.53	1.57	1.62	1.55	1.59	1.63	1.68	1.60	1.64	1.69	1.74
	AMPS	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.7	4.7	4.8	4.9	5.1	5.0	5.1	5.2	5.4	5.3	5.4	5.5	5.7	5.5	5.7	5.8	6.0
	HI PR	139	149	158	165	156	168	177	185	177	191	201	210	202	217	229	239	227	244	258	269	251	270	285	297
600	LOPR	62	66	72	77	66	70	77	81	68	73	80	85	72	77	84	89	75	80	88	93	78	83	91	96
	MBh	17.7	18.1	19.4	20.7	17.3	17.7	18.9	20.2	16.9	17.3	18.5	19.7	16.5	16.8	18.0	19.2	15.7	16.0	17.1	18.3	14.5	14.8	15.8	16.9
	S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.94	0.77	0.57
	DELTA T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	19	15
	KW	1.26	1.28	1.32	1.36	1.34	1.37	1.41	1.45	1.42	1.45	1.49	1.53	1.49	1.52	1.56	1.61	1.54	1.57	1.62	1.67	1.59	1.62	1.67	1.72
	AMPS	4.1	4.1	4.3	4.4	4.3	4.4	4.6	4.7	4.7	4.8	4.9	5.1	4.9	5.0	5.2	5.4	5.2	5.3	5.5	5.7	5.5	5.6	5.8	6.0
525	HI PR	137	148	156	163	154	166	175	183	175	189	199	208	200	215	227	237	225	242	255	266	248	267	282	294
	LOPR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	79	87	92	77	82	90	95
	MBh	16.4	16.7	17.9	19.1	16.0	16.3	17.4	18.6	15.6	15.9	17.0	18.2	15.2	15.6	16.6	17.8	14.5	14.8	15.8	16.9	13.4	13.7	14.6	15.6
	S/T	0.84	0.79	0.64	0.48	0.87	0.82	0.67	0.50	0.90	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.97	0.91	0.74	0.55
	DELTA T	24	23	20	16	24	23	20	16	25	23	20	16	25	24	21	16	24	23	20	16	23	22	19	15
	KW	1.23	1.25	1.29	1.33	1.31	1.34	1.38	1.42	1.39	1.41	1.46	1.50	1.45	1.48	1.52	1.57	1.51	1.54	1.58	1.63	1.55	1.59	1.63	1.68
80	AMPS	4.0	4.0	4.2	4.3	4.2	4.3	4.4	4.6	4.5	4.6	4.8	4.9	4.8	4.9	5.1	5.2	5.1	5.2	5.4	5.5	5.4	5.5	5.6	5.8
	HI PR	133	143	151	158	150	161	170	177	170	183	193	202	194	209	220	230	218	235	248	258	241	259	274	285
	LOPR	60	64	70	74	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	90	75	80	87	93
	MBh	16.4	16.7	17.9	19.1	16.0	16.3	17.4	18.6	15.6	15.9	17.0	18.2	15.2	15.6	16.6	17.8	14.5	14.8	15.8	16.9	13.4	13.7	14.6	15.6
	S/T	0.84	0.79	0.64	0.48	0.87	0.82	0.67	0.50	0.90	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.97	0.91	0.74	0.55
	DELTA T	24	23	20	16	24	23	20	16	25	23	20	16	25	24	21	16	24	23	20	16	23	22	19	15

675	MBh	18.58	18.93	19.83	21.16	18.14	18.49	19.37	20.66	17.71	18.05	18.91	20.17	17.28	17.61	18.45	19.68
	S/T	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75
	DELTA T	24	24	23	20	25	24	23	20	24	24	23	20	24	24	23	20
	KW	1.28	1.30	1.34	1.38	1.36	1.39	1.43	1.47	1.44	1.47	1.51	1.56	1.51	1.54	1.58	1.63
	AMPS	4.1	4.2	4.3	4.5	4.4	4.5	4.6	4.8	4.7	4.8	5.0	5.1	5.0	5.1	5.3	5.5
	HI PR	140	151	159	166	157	169	179	186	179	193	203	212	204	219	232	242
600	LO PR	63	67	73	78	67	71	77	82	69	74	80	86	73	77	84	90
	MBh	18.0	18.4	19.3	20.5	17.6	18.0	18.8	20.1	17.2	17.5	18.4	19.6	16.8	17.1	17.9	19.1
	S/T	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.88	0.71
	DELTA T	25	25	24	20	26	25	24	21	26	25	24	21	26	25	24	21
	KW	1.27	1.29	1.33	1.37	1.35	1.38	1.42	1.46	1.43	1.46	1.50	1.55	1.50	1.53	1.57	1.62
	AMPS	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.7	4.7	4.8	4.9	5.1	5.0	5.1	5.2	5.4
525	HI PR	139	149	158	165	156	168	177	185	177	191	201	210	202	217	229	239
	LO PR	62	66	72	77	66	70	77	81	68	73	80	85	72	77	84	89
	MBh	16.6	17.0	17.8	19.0	16.3	16.6	17.4	18.5	15.9	16.2	16.9	18.1	15.5	15.8	16.5	17.6
	S/T	0.88	0.85	0.77	0.63	0.92	0.88	0.80	0.65	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69
	DELTA T	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21
	KW	1.24	1.26	1.30	1.34	1.32	1.35	1.39	1.43	1.40	1.43	1.47	1.51	1.46	1.49	1.54	1.58
85	AMPS	4.0	4.1	4.2	4.3	4.3	4.4	4.5	4.6	4.6	4.7	4.8	5.0	4.9	5.0	5.1	5.3
	HI PR	135	145	153	160	151	163	172	179	172	185	195	204	196	211	222	232
	LO PR	60	64	70	75	64	68	74	79	66	71	77	82	70	74	81	86
	MBh	16.6	17.0	17.8	19.0	16.3	16.6	17.4	18.5	15.9	16.2	16.9	18.1	15.5	15.8	16.5	17.6
	S/T	0.88	0.85	0.77	0.63	0.92	0.88	0.80	0.65	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69
	DELTA T	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21

Shaded area is AHRI Rating Conditions

High and low pressures are measured at the liquid and suction service valves.

IDB: Entering Indoor Dry Bulb Temperature

KW= Total system power

AMPS= outdoor unit amps (comp.+fan)

COOLING PERFORMANCE DATA

VSH130241A*

EXPANDED PERFORMANCE DATA
MODEL: VSH130241A* / AR*F182416B*
Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

IDB		Airflow	Outdoor Ambient Temperature										Cooling Operation																										
			65					75					85					95					105					115											
			Entering Indoor Wet Bulb Temperature										Entering Indoor Wet Bulb Temperature										Entering Indoor Wet Bulb Temperature										Entering Indoor Wet Bulb Temperature						
70	923	MBh	22.5	23.4	25.6	-	22.0	22.8	25.0	-	21.5	22.3	24.4	-	21.0	21.7	23.8	-	19.9	20.6	22.6	-	18.4	19.1	21.0	-													
		ST	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-													
		DELTA T	17	14	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-													
		KW	1.64	1.67	1.72	-	1.76	1.79	1.85	-	1.86	1.90	1.96	-	1.96	2.00	2.06	-	2.04	2.08	2.15	-	2.10	2.15	2.22	-													
		AMPS	6.1	6.3	6.5	-	6.6	6.8	7.0	-	7.2	7.4	7.6	-	7.7	7.9	8.1	-	8.2	8.4	8.6	-	8.6	8.8	9.1	-													
	HI PR	137	148	156	-	154	166	175	-	175	189	199	-	200	215	227	-	224	242	255	-	248	267	282	-														
	LO PR	61	65	71	-	64	69	75	-	67	71	78	-	70	75	82	-	74	78	86	-	76	81	89	-														
	820	MBh	21.9	22.7	24.8	-	21.4	22.2	24.3	-	20.9	21.6	23.7	-	20.4	21.1	23.1	-	19.3	20.0	22.0	-	17.9	18.6	20.3	-													
		ST	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.81	0.68	0.47	-													
		DELTA T	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-													
KW		1.62	1.66	1.71	-	1.74	1.78	1.83	-	1.85	1.89	1.95	-	1.94	1.98	2.04	-	2.02	2.06	2.13	-	2.09	2.13	2.20	-														
AMPS		6.1	6.2	6.4	-	6.6	6.7	6.9	-	7.1	7.3	7.5	-	7.6	7.8	8.0	-	8.1	8.3	8.6	-	8.6	8.8	9.1	-														
718	HI PR	136	146	154	-	153	164	173	-	173	187	197	-	198	213	224	-	222	239	253	-	246	264	279	-														
	LO PR	60	64	70	-	64	68	74	-	66	71	77	-	70	74	81	-	73	78	85	-	75	80	88	-														
	MBh	20.2	20.9	22.9	-	19.7	20.4	22.4	-	19.3	20.0	21.9	-	18.8	19.5	21.3	-	17.8	18.5	20.3	-	16.5	17.1	18.8	-														
	ST	0.68	0.57	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.78	0.65	0.45	-														
	□□	18	15	12	-	18	15	12	-	18	15	12	-	18	16	12	-	18	15	12	-	17	14	11	-														

COOLING PERFORMANCE DATA

VSH130241A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VSH130241A* / AR*F182416B*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

		Outdoor Ambient Temperature																							
		65				75				85				95				105				115			
		Entering Indoor Wet Bulb Temperature																							
923	MBh	23.33	23.84	25.47	27.22	22.79	23.28	24.87	26.59	22.24	22.73	24.28	25.96	21.70	22.17	23.69	25.32	20.62	21.07	22.51	24.06	19.10	19.51	20.85	22.29
	ST	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.81	0.61
	DELTA T	22	21	18	14	22	21	18	15	22	21	18	15	22	21	18	15	21	21	18	14	19	19	17	13
	KW	1.66	1.69	1.75	1.80	1.78	1.82	1.88	1.94	1.89	1.93	1.99	2.06	1.99	2.03	2.10	2.16	2.07	2.11	2.18	2.25	2.14	2.19	2.26	2.33
	AMPS	6.2	6.4	6.6	6.8	6.7	6.9	7.1	7.4	7.3	7.5	7.7	8.0	7.8	8.0	8.3	8.6	8.3	8.5	8.8	9.1	8.8	9.0	9.3	9.7
820	HI PR	140	151	159	166	157	169	179	186	179	192	203	212	204	219	231	241	229	246	260	271	253	272	288	300
	LO PR	62	66	72	77	66	70	76	81	68	73	79	85	72	76	83	89	75	80	87	93	78	83	90	96
	MBh	22.6	23.1	24.7	26.4	22.1	22.6	24.2	25.8	21.6	22.1	23.6	25.2	21.1	21.5	23.0	24.6	20.0	20.5	21.9	23.4	18.5	18.9	20.2	21.6
	ST	0.88	0.83	0.67	0.50	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	0.95	0.77	0.58
	DELTA T	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	21	20	18	14
718	KW	1.65	1.68	1.73	1.79	1.77	1.81	1.86	1.92	1.88	1.92	1.98	2.04	1.97	2.01	2.08	2.15	2.05	2.10	2.16	2.24	2.12	2.17	2.24	2.31
	AMPS	6.2	6.3	6.5	6.8	6.7	6.8	7.1	7.3	7.2	7.4	7.7	7.9	7.7	7.9	8.2	8.5	8.2	8.4	8.7	9.0	8.7	8.9	9.2	9.6
	HI PR	139	149	158	164	156	167	177	184	177	190	201	210	202	217	229	239	227	244	258	269	251	270	285	297
	LO PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	74	79	86	92	77	82	89	95
	MBh	20.9	21.4	22.8	24.4	20.4	20.9	22.3	23.8	19.9	20.4	21.8	23.3	19.4	19.9	21.2	22.7	18.5	18.9	20.2	21.6	17.1	17.5	18.7	20.0
	ST	0.85	0.80	0.65	0.49	0.88	0.83	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.88	0.71	0.53	0.97	0.91	0.74	0.55	0.98	0.92	0.75	0.56
	DELTA T	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	21	18	14
	KW	1.61	1.64	1.69	1.74	1.73	1.76	1.82	1.88	1.83	1.87	1.93	1.99	1.92	1.97	2.03	2.09	2.00	2.05	2.11	2.18	2.07	2.12	2.18	2.25
	AMPS	6.0	6.2	6.4	6.6	6.5	6.7	6.9	7.1	7.0	7.2	7.5	7.7	7.5	7.7	8.0	8.3	8.0	8.2	8.5	8.8	8.5	8.7	9.0	9.3
	HI PR	135	145	153	159	151	162	172	179	172	185	195	203	196	210	222	232	220	237	250	261	243	262	276	288
	LO PR	60	64	69	74	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	89	75	79	87	92

		Entering Indoor Dry Bulb Temperature															
		23.18	23.63	24.75	26.40	22.63	23.07	24.16	25.78	22.08	22.51	23.57	25.15	20.98	21.38	22.39	23.89
923	MBh	23.74	24.19	25.34	27.03	23.18	23.63	24.75	26.40	22.63	23.07	24.16	25.78	22.08	22.51	23.57	25.15
	ST	0.97	0.94	0.84	0.69	1.00	0.97	0.88	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.93	0.75
	DELTA T	23	23	21	18	23	23	22	19	23	23	22	19	22	22	22	19
	KW	1.67	1.71	1.76	1.81	1.80	1.84	1.89	1.95	1.91	1.95	2.01	2.07	2.00	2.05	2.11	2.18
	AMPS	6.3	6.4	6.6	6.9	6.8	7.0	7.2	7.5	7.4	7.6	7.8	8.1	7.9	8.1	8.3	8.7
820	HI PR	141	152	161	168	159	171	180	188	181	194	205	214	206	221	234	244
	LO PR	63	67	73	78	66	71	77	82	69	73	80	85	72	77	84	90
	MBh	23.0	23.5	24.6	26.2	22.5	22.9	24.0	25.6	22.0	22.4	23.5	25.0	21.4	21.9	22.9	24.4
	ST	0.93	0.89	0.81	0.65	0.96	0.93	0.84	0.68	0.98	0.95	0.86	0.69	1.00	0.98	0.88	0.72
	DELTA T	24	24	22	19	24	24	22	19	24	24	23	19	24	24	23	20
	KW	1.66	1.69	1.75	1.80	1.78	1.82	1.88	1.94	1.89	1.93	1.99	2.06	1.99	2.03	2.10	2.16
	AMPS	6.2	6.4	6.6	6.8	6.7	6.9	7.1	7.4	7.3	7.5	7.7	8.0	7.8	8.0	8.3	8.6
	HI PR	140	151	159	166	157	169	179	186	179	192	203	212	204	219	231	241
	LO PR	62	66	72	77	66	70	76	81	68	73	79	85	72	76	83	89
	MBh	21.3	21.7	22.7	24.2	20.8	21.2	22.2	23.7	20.3	20.7	21.7	23.1	19.8	20.2	21.1	22.5
	ST	0.89	0.86	0.78	0.63	0.92	0.89	0.81	0.65	0.95	0.91	0.83	0.67	0.98	0.94	0.85	0.69
	DELTA T	24	24	23	20	25	24	23	20	25	24	23	20	25	24	23	20
	KW	1.62	1.66	1.71	1.76	1.74	1.78	1.83	1.89	1.85	1.89	1.95	2.01	1.94	1.98	2.04	2.11
	AMPS	6.1	6.2	6.4	6.6	6.6	6.7	6.9	7.2	7.1	7.3	7.5	7.8	7.6	7.8	8.0	8.3
	HI PR	136	146	154	161	152	164	173	181	173	187	197	206	197	213	224	234
	LO PR	60	64	70	75	64	68	74	79	66	71	77	82	70	74	81	86
	MBh	20.9	21.4	22.8	24.4	20.4	20.9	22.3	23.8	19.9	20.4	21.8	23.3	19.4	19.9	21.2	22.7
	ST	0.85	0.80	0.65	0.49	0.98	0.93	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.88	0.71	0.53
	DELTA T	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15
	KW	1.61	1.64	1.69	1.74	1.73	1.76	1.82	1.88	1.83	1.87	1.93	1.99	1.92	1.97	2.03	2.09
	AMPS	6.0	6.2	6.4	6.6	6.5	6.7	6.9	7.1	7.0	7.2	7.5	7.7	7.5	7.7	8.0	8.3
	HI PR	135	145	153	159	151	162	172	179	172	185	195	203	196	210	222	232
	LO PR	60	64	69	74	63	67	73	78	66	70	76	81	69	73	80	85
	MBh	20.9	21.4	22.8	24.4	20.4	20.9	22.3	23.8	19.9	20.4	21.8	23.3	19.4	19.9	21.2	22.7
	ST	0.85	0.80	0.65	0.49	0.98	0.93	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.88	0.71	0.53
	DELTA T	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15
	KW	1.61	1.64	1.69	1.74	1.73	1.76	1.82	1.88	1.83	1.87	1.93	1.99	1.92	1.97	2.03	2.09
	AMPS	6.0	6.2	6.4	6.6	6.5	6.7	6.9	7.1	7.0	7.2	7.5	7.7	7.5	7.7	8.0	8.3
	HI PR	135	145	153	159	151	162	172	179	172	185	195	203	196	210	222	232
	LO PR	60	64	69	74	63	67	73	78	66	70	76	81	69	73	80	85

Shaded area is AHRI Rating Conditions
High and low pressures are measured at the liquid and suction service valves.

KW=Total system power

IDB: Entering Indoor Dry Bulb Temperature

AMPS=outdoor unit amps (comp.+fan)

COOLING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VSH130251A* / AWUF24XX16A*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHR195 test conditions

	IDB	Airflow	Outdoor Ambient Temperature																																															
			65								75								85								95								105								115							
923		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																					
	MBh	23.5	24.4	26.7	-	23.0	23.8	26.1	-	22.4	23.2	25.5	-	21.9	22.7	24.8	-	20.8	21.5	23.6	-	19.3	20.0	21.9	-	19.3	20.0	21.9	-																					
	S/T	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.45	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-																					
	DELTA T	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-	16	14	11	-																					
	KW	1.68	1.71	1.76	-	1.79	1.83	1.88	-	1.90	1.93	1.99	-	1.99	2.03	2.09	-	2.06	2.11	2.17	-	2.13	2.18	2.24	-	2.13	2.18	2.24	-																					
	AMPS	6.7	6.8	7.0	-	7.2	7.3	7.5	-	7.7	7.9	8.1	-	8.2	8.4	8.6	-	8.7	8.9	9.1	-	9.1	9.3	9.6	-	9.1	9.3	9.6	-																					
	HIPR	139	150	158	-	156	168	177	-	177	191	202	-	202	217	230	-	227	245	258	-	251	270	285	-	251	270	285	-																					
	LO PR	59	63	69	-	63	67	73	-	65	69	76	-	68	73	80	-	72	76	83	-	74	79	86	-	74	79	86	-																					
820		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																					
	MBh	22.8	23.7	25.9	-	22.3	23.1	25.3	-	21.8	22.6	24.7	-	21.2	22.0	24.1	-	20.2	20.9	22.9	-	18.7	19.4	21.2	-	18.7	19.4	21.2	-																					
	S/T	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.81	0.68	0.47	-	0.81	0.68	0.47	-																					
	DELTA T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-																					
	KW	1.66	1.70	1.74	-	1.78	1.81	1.87	-	1.88	1.92	1.98	-	1.97	2.01	2.07	-	2.05	2.09	2.15	-	2.11	2.16	2.23	-	2.11	2.16	2.23	-																					
	AMPS	6.6	6.8	7.0	-	7.1	7.3	7.5	-	7.6	7.8	8.0	-	8.1	8.3	8.5	-	8.6	8.8	9.0	-	9.0	9.3	9.5	-	9.0	9.3	9.5	-																					
	HIPR	138	148	156	-	154	166	175	-	176	189	200	-	200	215	227	-	225	242	256	-	249	267	282	-	249	267	282	-																					
	LO PR	59	63	68	-	62	66	72	-	65	69	75	-	68	72	79	-	71	76	83	-	73	78	85	-	73	78	85	-																					
718		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																					
	MBh	21.1	21.8	23.9	-	20.6	21.3	23.4	-	20.1	20.8	22.8	-	19.6	20.3	22.3	-	18.6	19.3	21.1	-	17.3	17.9	19.6	-	17.3	17.9	19.6	-																					
	S/T	0.68	0.57	0.39	-	0.70	0.59	0.41	-	0.72	0.60	0.42	-	0.75	0.62	0.43	-	0.77	0.65	0.45	-	0.78	0.65	0.45	-	0.78	0.65	0.45	-																					
	DELTA T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-																					
	KW	1.63	1.66	1.71	-	1.74	1.77	1.83	-	1.84	1.88	1.93	-	1.93	1.97	2.02	-	2.00	2.04	2.10	-	2.07	2.11	2.17	-	2.07	2.11	2.17	-																					
	AMPS	6.5	6.6	6.8	-	6.9	7.1	7.3	-	7.5	7.6	7.8	-	7.9	8.1	8.3	-	8.4	8.6	8.8	-	8.8	9.0	9.3	-	8.8	9.0	9.3	-																					
	HIPR	133	144	152	-	150	161	170	-	170	183	194	-	194	209	220	-	218	235	248	-	241	259	274	-	241	259	274	-																					
	LO PR	57	61	66	-	60	64	70	-	63	67	73	-	66	70	76	-	69	73	80	-	71	76	83	-	71	76	83	-																					

VSH130251A*

75	923	MBh	23.92	24.62	26.65	28.61	23.36	24.05	26.03	27.94	22.80	23.48	25.41	27.28	22.25	22.91	24.79	26.61	21.14	21.76	23.55	25.28	19.58	20.16	21.82	23.42
		S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.96	0.86	0.65	0.42	0.97	0.86	0.65	0.42
		DELTA T	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	11	19	17	14	10
		KW	1.69	1.72	1.77	1.82	1.81	1.84	1.90	1.95	1.91	1.95	2.01	2.07	2.00	2.04	2.11	2.17	2.08	2.12	2.19	2.26	2.15	2.19	2.26	2.33
		AMPS	6.7	6.9	7.1	7.3	7.2	7.4	7.6	7.8	7.8	7.9	8.2	8.5	8.3	8.4	8.7	9.0	8.7	8.9	9.2	9.5	9.2	9.4	9.7	10.0
		HIPR	140	151	160	166	158	170	179	187	179	193	204	212	204	220	232	242	230	247	261	272	254	273	288	301
		LO PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93
820	MBh	23.2	23.9	25.9	27.8	22.7	23.4	25.3	27.1	22.1	22.8	24.7	26.5	21.6	22.2	24.1	25.8	20.5	21.1	22.9	24.5	19.0	19.6	21.2	22.7	
	S/T	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.82	0.62	0.40	0.92	0.82	0.62	0.40	
	DELTA T	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	21	19	16	11	20	18	15	10	
	KW	1.68	1.71	1.76	1.81	1.79	1.83	1.88	1.94	1.90	1.93	1.99	2.05	1.99	2.03	2.09	2.15	2.06	2.11	2.17	2.24	2.13	2.18	2.24	2.31	
	AMPS	6.7	6.8	7.0	7.3	7.2	7.3	7.5	7.8	7.7	7.9	8.1	8.4	8.2	8.4	8.6	8.9	8.7	8.9	9.1	9.4	9.1	9.3	9.6	10.0	
	HIPR	139	150	158	165	156	168	177	185	177	191	202	210	202	217	230	239	227	245	258	269	251	270	285	298	
	LO PR	59	63	69	73	63	67	73	78	65	69	76	81	68	73	80	85	72	76	83	89	74	79	86	92	
718	MBh	21.4	22.1	23.9	25.6	20.9	21.6	23.3	25.0	20.4	21.0	22.8	24.4	19.9	20.53	22.2	23.8	18.9	19.5	21.1	22.7	17.5	18.1	19.6	21.0	
	S/T	0.77	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.82	0.73	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.79	0.60	0.38	0.89	0.79	0.60	0.39	
	DELTA T	21	20	16	11	21	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10	
	KW	1.64	1.67	1.72	1.77	1.75	1.79	1.84	1.89	1.85	1.89	1.95	2.01	1.94	1.98	2.04	2.10	2.02	2.06	2.12	2.19	2.08	2.12	2.19	2.26	
	AMPS	6.5	6.7	6.9	7.1	7.0	7.1	7.3	7.6	7.5	7.7	7.9	8.2	8.0	8.2	8.4	8.7	8.4	8.6	8.9	9.2	8.9	9.1	9.4	9.7	
	HIPR	135	145	153	160	151	163	172	179	172	185	196	204	196	211	223	232	220	237	251	261	244	262	277	289	
	LO PR	58	61	67	71	61	65	71	75	63	67	73	78	66	71	77	82	70	74	81	86	72	77	84	89	

Shaded area is ACCA (TVA) conditions
High and low pressures are measured at the liquid and suction service valves.
IDB: Entering Indoor Dry Bulb Temperature
KW=Total system power
AMPS=outdoor unit amps (comp.+fan)

VSH130251A*

COOLING OPERATION

Design Subcooling 9 ± 3 °F @ the liquid service valve. AHRI 95 test conditions

Outdoor Ambient Temperature																																			
65						75						85						95						105						115					
Entering Indoor Wet Bulb Temperature																																			
923	MBh	24.34	24.87	26.57	28.41	23.78	24.29	25.96	27.75	23.21	23.72	25.34	27.09	22.64	23.14	24.72	26.43	21.51	21.98	23.48	25.10	19.93	20.36	21.75	23.25										
	S/T	0.92	0.86	0.70	0.53	0.96	0.90	0.73	0.55	1.00	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.81	0.60										
	DELTA T	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	22	19	15	20	20	18	14										
	KW	1.70	1.73	1.78	1.84	1.82	1.86	1.91	1.97	1.92	1.96	2.02	2.08	2.02	2.06	2.12	2.19	2.10	2.14	2.21	2.28	2.16	2.21	2.28	2.35										
	AMPS	6.8	6.9	7.1	7.4	7.3	7.4	7.7	7.9	7.8	8.0	8.2	8.5	8.3	8.5	8.8	9.1	8.8	9.0	9.3	9.6	9.3	9.5	9.8	10.1										
	HI PR	142	153	161	168	159	171	181	189	181	195	206	214	206	222	234	244	232	250	263	275	256	276	291	304										
820	LO PR	61	64	70	75	64	68	74	79	67	71	77	82	70	74	81	86	73	78	85	91	76	81	88	94										
	MBh	23.6	24.1	25.8	27.6	23.1	23.6	25.2	26.9	22.5	23.0	24.6	26.3	22.0	22.5	24.0	25.7	20.9	21.3	22.8	24.4	19.3	19.8	21.1	22.6										
	S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.70	0.52	0.93	0.88	0.71	0.53	0.96	0.90	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.95	0.77	0.58										
	DELTA T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	23	22	20	16	22	21	18	15										
	KW	1.69	1.72	1.77	1.82	1.81	1.84	1.90	1.95	1.91	1.95	2.01	2.07	2.00	2.04	2.11	2.17	2.08	2.12	2.19	2.26	2.15	2.19	2.26	2.33										
	AMPS	6.7	6.9	7.1	7.3	7.2	7.4	7.6	7.8	7.8	7.9	8.2	8.5	8.3	8.4	8.7	9.0	8.7	8.9	9.2	9.5	9.2	9.4	9.7	10.0										
718	HI PR	140	151	160	166	158	170	179	187	179	193	204	212	204	220	232	242	230	247	261	272	254	273	288	301										
	LO PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93										
	MBh	21.8	22.3	23.8	25.5	21.3	21.8	23.3	24.9	20.8	21.3	22.7	24.3	20.3	20.7	22.2	23.7	19.3	19.7	21.0	22.5	17.9	18.2	19.5	20.8										
	S/T	0.85	0.80	0.65	0.48	0.88	0.82	0.67	0.50	0.90	0.85	0.69	0.51	0.93	0.87	0.71	0.53	0.97	0.91	0.74	0.55	0.97	0.91	0.74	0.56										
	DELTA T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	19	15										
	KW	1.65	1.68	1.73	1.78	1.77	1.80	1.85	1.91	1.87	1.90	1.96	2.02	1.96	2.00	2.06	2.12	2.03	2.07	2.14	2.20	2.10	2.14	2.21	2.28										
80	AMPS	6.6	6.7	6.9	7.1	7.0	7.2	7.4	7.7	7.6	7.7	8.0	8.2	8.0	8.2	8.5	8.8	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.8										
	HI PR	136	147	155	161	153	164	174	181	174	187	197	206	198	213	225	235	223	240	253	264	246	265	280	292										
	LO PR	58	62	68	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90										

923	MBh	24.77	25.25	26.44	28.21	24.19	24.66	25.83	27.55	23.62	24.07	25.21	26.90	23.04	23.48	24.60	26.24	21.89	22.31	23.37	24.93	20.27	20.67	21.64	23.09
	S/T	0.97	0.93	0.84	0.68	1.00	0.97	0.87	0.71	1.00	0.99	0.89	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.78
	DELTA T	24	23	22	19	24	24	22	19	24	24	22	19	23	23	23	20	22	22	22	19	20	21	21	18
	KW	1.71	1.75	1.80	1.85	1.83	1.87	1.92	1.98	1.94	1.98	2.04	2.10	2.03	2.07	2.14	2.21	2.11	2.16	2.22	2.29	2.18	2.23	2.30	2.37
	AMPS	6.8	7.0	7.2	7.4	7.3	7.5	7.7	8.0	7.9	8.1	8.3	8.6	8.4	8.6	8.8	9.1	8.9	9.1	9.4	9.7	9.4	9.6	9.9	10.2
	HI PR	143	154	163	170	161	173	183	190	183	197	208	217	208	224	237	247	234	252	266	278	259	278	294	307
	LO PR	61	65	71	76	65	69	75	80	67	71	78	83	71	75	82	87	74	79	86	91	76	81	89	95
	MBh	24.0	24.5	25.7	27.4	23.5	23.9	25.1	26.8	22.9	23.4	24.5	26.1	22.4	22.8	23.9	25.5	21.2	21.7	22.7	24.2	19.7	20.1	21.0	22.4
	S/T	0.92	0.89	0.80	0.65	0.96	0.92	0.83	0.67	0.98	0.95	0.85	0.69	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.75
	DELTA T	25	24	23	20	25	25	23	20	25	25	23	20	25	25	24	20	24	24	23	20	22	22	22	19
820	KW	1.70	1.73	1.78	1.84	1.82	1.86	1.91	1.97	1.92	1.96	2.02	2.08	2.02	2.06	2.12	2.19	2.10	2.14	2.21	2.28	2.16	2.21	2.28	2.35
	AMPS	6.8	6.9	7.1	7.4	7.3	7.4	7.7	7.9	7.8	8.0	8.2	8.5	8.3	8.5	8.8	9.1	8.8	9.0	9.3	9.6	9.3	9.5	9.8	10.1
	HI PR	142	153	161	168	159	171	181	189	181	195	206	214	206	222	234	244	232	250	263	275	256	276	291	304
	LO PR	61	64	70	75	64	68	74	79	67	71	77	82	70	74	81	86	73	78	85	91	76	81	88	94
	MBh	22.2	22.6	23.7	25.3	21.7	22.1	23.1	24.7	21.2	21.6	22.6	24.1	20.6	21.0	22.0	23.5	19.6	20.0	20.9	22.3	18.2	18.5	19.4	20.7
	S/T	0.89	0.86	0.77	0.63	0.92	0.89	0.80	0.65	0.94	0.91	0.82	0.67	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.71	1.00	0.98	0.89	0.72
	DELTA T	25	25	24	20	26	25	24	21	26	25	24	21	26	25	24	21	25	25	24	20	23	23	22	19
	KW	1.66	1.69	1.74	1.79	1.78	1.81	1.87	1.92	1.88	1.92	1.98	2.04	1.97	2.01	2.07	2.14	2.05	2.09	2.15	2.22	2.11	2.16	2.22	2.30
	AMPS	6.6	6.8	7.0	7.2	7.1	7.3	7.5	7.7	7.6	7.8	8.0	8.3	8.1	8.3	8.5	8.8	8.6	8.8	9.0	9.4	9.0	9.3	9.5	9.9
	HI PR	138	148	156	163	154	166	175	183	176	189	199	208	200	215	227	237	225	242	256	267	248	267	282	295
718	LO PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	82	88	73	78	85	91

85

IDB: Entering Indoor Dry Bulb Temperature

KW=Total system power

AMPS=indoor unit amps (comp +fan)

Shaded area is AHRI Rating Conditions
High and low pressures are measured at the liquid and suction service valves.
IDB: EHT

COOLING PERFORMANCE DATA

VSH130301A*

EXPANDED PERFORMANCE DATA

MODEL: VSH130301A* / AR*F303016B*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

COOLING OPERATION

		Outdoor Ambient Temperature										105										115																			
		65										75										85										95									
		65										75										85										95									
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71												
70	1173	MBh	27.0	28.0	30.7	-	26.4	27.4	30.0	-	25.8	26.7	29.3	-	25.2	26.1	28.6	-	23.9	24.8	27.1	-	22.1	22.9	25.1	-	20.5	21.4	23.7	-											
		S/T	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.86	0.72	0.50	-	0.79	0.67	0.47	-											
		DELTA T	16	14	10	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	15	13	10	-	14	12	9	-											
		KW	2.04	2.08	2.14	-	2.19	2.24	2.31	-	2.32	2.37	2.45	-	2.44	2.49	2.57	-	2.54	2.60	2.68	-	2.63	2.69	2.77	-	2.57	2.64	2.72	-											
		AMPS	7.6	7.8	8.1	-	8.2	8.4	8.7	-	9.0	9.2	9.5	-	9.6	9.8	10.2	-	10.2	10.5	10.8	-	10.8	11.1	11.5	-	10.5	10.8	11.2	-											
	1050	HI PR	141	152	161	-	159	171	180	-	181	194	205	-	206	221	234	-	231	249	263	-	256	275	290	-	244	262	276	-											
		LO PR	62	66	73	-	66	70	77	-	69	73	80	-	72	77	84	-	75	80	88	-	78	83	91	-	71	76	83	-											
		MBh	26.6	27.6	30.3	-	26.0	27.0	29.5	-	25.4	26.3	28.8	-	24.8	25.7	28.1	-	23.5	24.4	26.7	-	21.8	22.6	24.8	-	19.4	20.3	22.6	-											
		S/T	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.82	0.69	0.48	-	0.75	0.63	0.43	-											
		DELTA T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-	15	13	9	-											
927	1173	KW	2.03	2.07	2.13	-	2.18	2.22	2.29	-	2.31	2.36	2.43	-	2.43	2.48	2.56	-	2.53	2.58	2.67	-	2.61	2.67	2.76	-	2.54	2.61	2.70	-											
		AMPS	7.6	7.8	8.0	-	8.2	8.4	8.7	-	8.9	9.1	9.4	-	9.5	9.8	10.1	-	10.1	10.4	10.7	-	10.8	11.0	11.4	-	10.2	10.5	10.8	-											
		HI PR	140	151	160	-	158	170	179	-	179	193	204	-	204	220	232	-	230	247	261	-	254	273	288	-	242	260	274	-											
		LO PR	62	66	72	-	66	70	76	-	68	72	79	-	72	76	83	-	75	80	87	-	78	82	90	-	71	76	83	-											
		MBh	25.3	26.2	28.7	-	24.7	25.6	28.1	-	24.1	25.0	27.4	-	23.5	24.4	26.7	-	22.4	23.2	25.4	-	20.7	21.5	23.5	-	19.0	20.0	22.3	-											
	1050	S/T	0.69	0.57	0.40	-	0.71	0.60	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.79	0.66	0.46	-	0.72	0.60	0.40	-											
		DELTA T	17	15	11	-	17	15	11	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-	15	13	9	-											
		KW	2.00	2.04	2.10	-	2.14	2.19	2.26	-	2.27	2.32	2.40	-	2.39	2.44	2.52	-	2.49	2.54	2.62	-	2.57	2.63	2.71	-	2.50	2.57	2.66	-											
		AMPS	7.4	7.6	7.9	-	8.0	8.2	8.5	-	8.7	9.0	9.3	-	9.3	9.6	9.9	-	10.0	10.2	10.5	-	10.6	10.8	11.2	-	10.1	10.4	10.7	-											
		HI PR	138	148	156	-	154	166	176	-	176	189	200	-	200	215	227	-	225	242	256	-	249	268	283	-	239	257	271	-											
		LO PR	61	65	71	-	64	68	75	-	67	71	78	-	70	75	81	-	73	78	85	-	76	81	88	-	69	74	81	-											

COOLING PERFORMANCE DATA

VSH130301A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VSH130301A* / AR*F303016B*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

		65				75				85				95				105				115			
		Outdoor Ambient Temperature																							
		Entering Indoor Wet Bulb Temperature																							
1173	MBh	27.99	28.60	30.55	32.66	27.33	27.93	29.84	31.90	26.68	27.27	29.13	31.14	26.03	26.60	28.42	30.38	24.73	25.27	27.00	28.86	22.91	23.41	25.01	26.74
	S/T	0.94	0.88	0.71	0.53	0.97	0.91	0.74	0.55	1.00	0.93	0.76	0.57	1.00	0.96	0.78	0.59	1.00	1.00	0.81	0.61	1.00	1.00	0.82	0.61
	DELTA T	21	20	17	14	21	20	17	14	21	20	17	14	20	20	17	14	19	20	17	14	18	18	16	13
	KW	2.07	2.11	2.18	2.25	2.22	2.27	2.34	2.42	2.36	2.41	2.49	2.57	2.48	2.54	2.62	2.70	2.58	2.64	2.73	2.82	2.67	2.73	2.82	2.92
	AMPS	7.8	8.0	8.2	8.5	8.4	8.6	8.9	9.2	9.1	9.4	9.7	10.0	9.8	10.0	10.3	10.7	10.4	10.7	11.0	11.4	11.0	11.3	11.7	12.1
	HI PR	144	155	164	171	162	174	184	192	184	198	209	218	210	226	238	249	236	254	268	280	261	281	296	309
1050	LOPR	64	68	74	79	67	72	78	83	70	74	81	87	74	78	85	91	77	82	89	95	80	85	93	99
	MBh	27.6	28.2	30.1	32.2	26.9	27.5	29.4	31.4	26.3	26.9	28.7	30.7	25.6	26.2	28.0	29.9	24.4	24.9	26.6	28.4	22.6	23.1	24.6	26.3
	S/T	0.90	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.95	0.89	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.96	0.78	0.58	1.00	0.96	0.78	0.59
	DELTA T	22	21	18	14	22	21	18	15	22	21	18	15	22	21	18	15	21	21	18	14	20	19	17	14
	KW	2.06	2.10	2.17	2.23	2.21	2.26	2.33	2.40	2.35	2.40	2.47	2.55	2.47	2.52	2.60	2.69	2.57	2.63	2.71	2.80	2.66	2.72	2.80	2.90
	AMPS	7.7	7.9	8.2	8.5	8.3	8.5	8.8	9.2	9.1	9.3	9.6	10.0	9.7	9.9	10.3	10.7	10.3	10.6	11.0	11.4	11.0	11.2	11.6	12.1
927	HI PR	143	154	163	170	161	173	183	191	183	197	208	217	208	224	237	247	234	252	266	278	259	279	294	307
	LOPR	63	67	74	78	67	71	78	83	69	74	81	86	73	78	85	90	76	81	89	95	79	84	92	98
	MBh	26.2	26.8	28.6	30.6	25.6	26.1	27.9	29.9	25.0	25.5	27.3	29.1	24.4	24.9	26.6	28.4	23.1	23.7	25.3	27.0	21.4	21.9	23.4	25.0
	S/T	0.86	0.80	0.65	0.49	0.89	0.83	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.92	0.75	0.56
	DELTA T	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	21	19	15	21	20	17	14
	KW	2.03	2.07	2.13	2.20	2.18	2.22	2.29	2.37	2.31	2.36	2.43	2.51	2.43	2.48	2.56	2.64	2.53	2.58	2.67	2.75	2.61	2.67	2.76	2.85
80	AMPS	7.6	7.8	8.0	8.3	8.2	8.4	8.7	9.0	8.9	9.1	9.4	9.8	9.5	9.8	10.1	10.5	10.1	10.4	10.7	11.2	10.8	11.0	11.4	11.8
	HI PR	140	151	160	166	158	170	179	187	179	193	204	212	204	220	232	242	230	247	261	272	254	273	288	301
	LOPR	62	66	72	77	66	70	76	81	68	72	79	84	72	76	83	88	75	80	87	93	78	82	90	96
	MBh	26.2	26.8	28.6	30.6	25.6	26.1	27.9	29.9	25.0	25.5	27.3	29.1	24.4	24.9	26.6	28.4	23.1	23.7	25.3	27.0	21.4	21.9	23.4	25.0
	S/T	0.86	0.80	0.65	0.49	0.89	0.83	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.92	0.75	0.56
	DELTA T	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	21	19	15	21	20	17	14

1173	MBh	28.47	29.03	30.40	32.43	27.81	28.35	29.69	31.68	27.15	27.68	28.98	30.92	26.49	27.00	28.28	30.17	25.16	25.65	26.86	28.66	23.31	23.76	24.88	26.55
	S/T	0.98	0.95	0.85	0.69	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.80
	DELTA T	22	22	20	18	22	22	21	18	21	22	21	18	21	21	21	18	20	20	20	18	18	19	19	17
	KW	2.09	2.13	2.19	2.26	2.24	2.29	2.36	2.44	2.38	2.43	2.51	2.59	2.50	2.56	2.64	2.73	2.61	2.66	2.75	2.84	2.70	2.75	2.84	2.94
	AMPS	7.8	8.0	8.3	8.6	8.5	8.7	9.0	9.3	9.2	9.4	9.8	10.1	9.9	10.1	10.4	10.8	10.5	10.8	11.1	11.6	11.1	11.4	11.8	12.3
	HI PR	146	157	166	173	164	176	186	194	186	200	211	221	212	228	241	251	238	257	271	283	263	283	299	312
1050	LO PR	64	68	75	80	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	80	86	93	100
	MBh	28.1	28.6	29.9	32.0	27.4	27.9	29.3	31.2	26.7	27.3	28.6	30.5	26.1	26.6	27.9	29.7	24.8	25.3	26.5	28.2	23.0	23.4	24.5	26.2
	S/T	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.96	0.87	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.94	0.76
	DELTA T	23	23	21	19	23	23	22	19	23	23	22	19	23	23	22	19	22	22	22	19	20	20	20	17
	KW	2.07	2.12	2.18	2.25	2.23	2.28	2.35	2.42	2.37	2.42	2.49	2.58	2.49	2.54	2.62	2.71	2.59	2.65	2.73	2.82	2.68	2.74	2.83	2.92
	AMPS	7.8	8.0	8.2	8.5	8.4	8.6	8.9	9.3	9.2	9.4	9.7	10.1	9.8	10.0	10.4	10.8	10.4	10.7	11.1	11.5	11.1	11.3	11.7	12.2
927	HI PR	145	156	165	172	162	175	185	193	185	199	210	219	210	226	239	249	237	255	269	281	262	281	297	310
	LO PR	64	68	74	79	68	72	78	84	70	75	82	87	74	78	86	91	77	82	90	96	80	85	93	99
	MBh	26.7	27.2	28.5	30.4	26.0	26.5	27.8	29.6	25.4	25.9	27.1	28.9	24.8	25.3	26.5	28.2	23.6	24.0	25.1	26.8	21.8	22.2	23.3	24.8
	S/T	0.90	0.87	0.78	0.64	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.90	0.73
	DELTA T	24	23	22	19	24	24	22	19	24	24	22	19	24	24	23	20	23	24	22	19	22	22	21	18
	KW	2.04	2.08	2.15	2.22	2.19	2.24	2.31	2.38	2.33	2.38	2.45	2.53	2.45	2.50	2.58	2.66	2.55	2.60	2.69	2.78	2.64	2.69	2.78	2.87
85	AMPS	7.6	7.8	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.9	9.6	9.9	10.2	10.6	10.2	10.5	10.8	11.3	10.9	11.1	11.5	11.9
	HI PR	142	153	161	168	159	171	181	189	181	195	206	215	206	222	234	244	232	250	264	275	256	276	291	304
	LO PR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97
	MBh	26.7	27.2	28.5	30.4	26.0	26.5	27.8	29.6	25.4	25.9	27.1	28.9	24.8	25.3	26.5	28.2	23.6	24.0	25.1	26.8	21.8	22.2	23.3	24.8
	S/T	0.90	0.87	0.78	0.64	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.90	0.73
	DELTA T	24	23	22	19	24	24	22	19	24	24	22	19	24	24	23	20	23	24	22	19	22	22	21	18

Shaded area is AHRI Rating Conditions

IDB: Entering Indoor Dry Bulb Temperature

KW= Total system power

AMPS= outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

COOLING PERFORMANCE DATA

VSH130311A*

EXPANDED PERFORMANCE DATA																										COOLING OPERATION																																							
MODEL: VSH130311A* / AWUF36XX1A*																										Design Subcooling 9 ±3 °F @ the liquid service valve, AHRJ 95 test conditions																																							
Outdoor Ambient Temperature																																																																	
65													75													85										95										105										115									
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																																				
70	1173	MBh	26.5	27.4	30.0	-	25.8	26.8	29.3	-	25.2	26.1	28.6	-	24.6	25.5	28.0	-	23.4	24.2	26.6	-	21.7	22.4	24.6	-	21.7	22.4	24.6	-																																			
		S/T	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.83	0.69	0.48	-	0.85	0.71	0.49	-	0.89	0.74	0.51	-	0.89	0.75	0.52	-	0.89	0.75	0.52	-																																			
		DELTA T	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	15	13	10	-	15	13	10	-																																			
		KW	1.81	1.85	1.91	-	1.96	2.00	2.07	-	2.09	2.13	2.21	-	2.20	2.25	2.33	-	2.30	2.35	2.43	-	2.38	2.44	2.52	-	2.38	2.44	2.52	-																																			
		AMPS	8.0	8.1	8.4	-	8.6	8.8	9.0	-	9.3	9.5	9.8	-	9.9	10.1	10.4	-	10.5	10.7	11.0	-	11.0	11.3	11.7	-	11.0	11.3	11.7	-																																			
	1050	HI PR	147	159	168	-	165	178	188	-	188	202	214	-	214	231	244	-	241	259	274	-	266	287	303	-	266	287	303	-																																			
		LO PR	61	65	71	-	65	69	75	-	67	72	78	-	71	75	82	-	74	79	86	-	77	82	89	-	77	82	89	-																																			
		MBh	26.1	27.0	29.6	-	25.5	26.4	28.9	-	24.9	25.8	28.2	-	24.2	25.1	27.5	-	23.0	23.9	26.2	-	21.3	22.1	24.2	-	21.3	22.1	24.2	-																																			
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-																																			
		DELTA T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-	16	14	10	-																																			
927	KW	1.80	1.84	1.90	-	1.95	1.99	2.06	-	2.07	2.12	2.19	-	2.19	2.24	2.31	-	2.28	2.34	2.42	-	2.37	2.42	2.51	-	2.37	2.42	2.51	-																																				
	AMPS	7.9	8.1	8.3	-	8.5	8.7	9.0	-	9.2	9.4	9.7	-	9.8	10.0	10.3	-	10.4	10.6	11.0	-	11.0	11.2	11.6	-	11.0	11.2	11.6	-																																				
	HI PR	146	158	166	-	164	177	187	-	187	201	212	-	213	229	242	-	239	258	272	-	265	285	301	-	265	285	301	-																																				
	LO PR	61	65	71	-	64	69	75	-	67	71	78	-	70	75	82	-	74	78	86	-	76	81	89	-	76	81	89	-																																				
	MBh	24.8	25.7	28.1	-	24.2	25.1	27.5	-	23.6	24.5	26.8	-	23.0	23.9	26.2	-	21.9	22.7	24.9	-	20.3	21.0	23.0	-	20.3	21.0	23.0	-																																				
75	1173	S/T	0.71	0.60	0.41	-	0.74	0.62	0.43	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.82	0.68	0.47	-	0.82	0.68	0.47	-																																			
		DELTA T	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-	16	14	11	-																																			
		KW	1.77	1.81	1.87	-	1.91	1.96	2.02	-	2.04	2.09	2.16	-	2.15	2.20	2.27	-	2.24	2.30	2.38	-	2.33	2.38	2.46	-	2.33	2.38	2.46	-																																			
		AMPS	7.8	8.0	8.2	-	8.4	8.6	8.8	-	9.0	9.3	9.5	-	9.6	9.8	10.2	-	10.2	10.4	10.8	-	10.8	11.0	11.4	-	10.8	11.0	11.4	-																																			
		HI PR	143	154	163	-	161	173	183	-	183	197	208	-	209	224	237	-	235	253	267	-	259	279	295	-	259	279	295	-																																			
	LO PR	60	64	69	-	63	67	73	-	66	70	76	-	69	73	80	-	72	77	84	-	75	80	87	-	75	80	87	-																																				
	1050	MBh	26.91	27.70	29.99	32.18	26.28	27.06	29.29	31.43	25.66	26.42	28.59	30.69	25.03	25.77	27.89	29.94	23.78	24.48	26.50	28.44	22.03	22.68	24.55	26.35	22.03	22.68	24.55	26.35																																			
		S/T	0.88	0.79	0.60	0.38	0.92	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.97	0.87	0.66	0.42	1.00	0.90	0.68	0.44	1.00	0.91	0.69	0.44	1.00	0.91	0.69	0.44																																			
		DELTA T	19	17	14	10	19	17	14	10	19	17	14	10	19	18	14	10	19	17	14	10	17	16	13	9	17	16	13	9																																			
		KW	1.83	1.87	1.93	1.99	1.97	2.02	2.09	2.16	2.11	2.15	2.23	2.30	2.22	2.27	2.35	2.43	2.32	2.37	2.45	2.54	2.40	2.46	2.54	2.63	2.40	2.46	2.54	2.63																																			
AMPS		8.0	8.2	8.5	8.8	8.6	8.8	9.1	9.4	9.3	9.6	9.8	10.2	9.9	10.2	10.5	10.9	10.5	10.8	11.1	11.5	11.1	11.4	11.8	12.2	11.1	11.4	11.8	12.2																																				
927	HI PR	149	160	169	177	167	180	190	198	190	205	216	225	216	233	246	257	244	262	277	289	269	290	306	319	269	290	306	319																																				
	LO PR	62	66	72	77	66	70	76	81	68	72	79	84	72	76	83	89	75	80	87	93	78	83	90	96	78	83	90	96																																				
	MBh	26.5	27.3	29.5	31.7	25.9	26.7	28.9	31.0	25.3	26.0	28.2	30.2	24.7	25.4	27.5	29.5	23.4	24.1	26.1	28.0	21.7	22.3	24.2	26.0	21.7	22.3	24.2	26.0																																				
	S/T	0.85	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.42	0.97	0.87	0.66	0.42																																				
	DELTA T	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	18	17	14	10	18	17	14	10																																				
927	1050	KW	1.82	1.86	1.92	1.98	1.96	2.01	2.07	2.15	2.09	2.14	2.21	2.29	2.21	2.26	2.34	2.42	2.30	2.36	2.44	2.52	2.39	2.44	2.53	2.62	2.39	2.44	2.53	2.62																																			
		AMPS	8.0	8.2	8.4	8.7	8.6	8.8	9.1	9.4	9.3	9.5	9.8	10.1	9.9	10.1	10.4	10.8	10.5	10.7	11.1	11.5	11.1	11.3	11.7	12.1	11.1	11.3	11.7	12.1																																			
		HI PR	148	159	168	175	166	179	189	197	189	203	215	224	215	231	244	255	242	260	275	287	267	288	304	317	267	288	304	317																																			
		LO PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	74	79	86	92	77	82	89	95	77	82	89	95																																			
		MBh	25.2	25.9	28.1	30.1	24.6	25.3	27.4	29.4	24.0	24.7	26.8	28.7	23.4	24.12	26.1	28.0	22.3	22.9	24.8	26.6	20.6	21.2	23.0	24.7	20.6	21.2	23.0	24.7																																			
	927	S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.58	0.38	0.89	0.80	0.60	0.39	0.92	0.83	0.62	0.40	0.93	0.83	0.63	0.41	0.93	0.83	0.63	0.41																																			
		DELTA T	20	19	15	11	20	19	15	11	21	19	15	11	21	19	16	11	20	19	15	11	19	18	14	10	19	18	14	10																																			
		KW	1.79	1.83	1.89	1.95	1.93	1.97	2.04	2.11	2.06	2.10	2.17	2.25	2.17	2.22	2.29	2.37	2.26	2.32	2.40	2.48	2.35	2.40	2.48	2.57	2.35	2.40	2.48	2.57																																			
		AMPS	7.9	8.0	8.3	8.6	8.4	8.6	8.9	9.2	9.1	9.3	9.6	10.0	9.7	9.9	10.2	10.6	10.3	10.5	10.9	11.3	10.9	11.1	11.5	11.9	10.9	11.1	11.5	11.9																																			
		HI PR	145	156	165	172	163	175	185	193	185	199	210	219	211	227	239	250	237	255	269	281	262	282	298	310	262	282	298	310																																			
LO PR	60	64	70	75	64	68	74	79	66	71	77	82	70	74	81	86	73	78	85	90	75	80	88	93	75	80	88	93																																					
Shaded area is ACCA (TVA) conditions																										kW=Total system power AMP=S-outdoor unit amps (comp.+fa)																																							

COOLING PERFORMANCE DATA

VSH130311A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VSH130311A* / AWUF36XX1A*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRJ 95 test conditions

		Outdoor Ambient Temperature				Entering Indoor Wet Bulb Temperature			
		65				75			
		85				95			
		105				115			
1173	MBh	27.39	27.98	29.90	31.96	26.75	27.33	29.20	31.22
	ST	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57
	DELTA T	21	20	17	14	21	20	18	14
	KW	1.84	1.88	1.95	2.01	1.99	2.04	2.11	2.18
	AMPS	8.1	8.3	8.5	8.8	8.7	8.9	9.2	9.5
	HI PR	150	162	171	178	169	182	192	200
	LO PR	63	67	73	78	66	70	77	82
	MBh	27.0	27.6	29.5	31.5	26.4	26.9	28.8	30.8
	ST	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55
	DELTA T	22	21	18	15	22	21	18	15
1050	MBh	27.0	27.6	29.5	31.5	26.4	26.9	28.8	30.8
	ST	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55
	DELTA T	22	21	18	15	22	21	18	15
	KW	1.83	1.87	1.93	2.00	1.98	2.02	2.09	2.16
	AMPS	8.1	8.2	8.5	8.8	8.7	8.9	9.1	9.5
	HI PR	149	161	170	177	168	180	191	199
	LO PR	62	66	72	77	66	70	76	81
	MBh	25.6	26.2	28.0	29.9	25.0	25.6	27.3	29.2
	ST	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53
	DELTA T	23	22	19	15	23	22	19	15
927	MBh	25.6	26.2	28.0	29.9	25.0	25.6	27.3	29.2
	ST	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53
	DELTA T	23	22	19	15	23	22	19	15
	KW	1.80	1.84	1.90	1.97	1.95	1.99	2.06	2.13
	AMPS	7.9	8.1	8.3	8.6	8.5	8.7	9.0	9.3
	HI PR	146	158	166	174	164	177	187	195
	LO PR	61	65	71	75	64	69	75	80
	MBh	25.6	26.2	28.0	29.9	25.0	25.6	27.3	29.2
	ST	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53
	DELTA T	23	22	19	15	23	22	19	15

1173	MBh	27.86	28.40	29.75	31.74	27.22	27.74	29.06	31.00
	ST	1.00	0.98	0.88	0.72	1.00	1.00	0.92	0.74
	DELTA T	22	22	21	18	21	21	21	18
	KW	1.86	1.90	1.96	2.03	2.01	2.05	2.12	2.20
	AMPS	8.2	8.4	8.6	8.9	8.8	9.0	9.3	9.6
	HI PR	152	164	173	180	171	183	194	202
	LO PR	63	67	74	78	67	71	78	83
	MBh	27.5	28.0	29.3	31.3	26.8	27.3	28.6	30.5
	ST	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71
	DELTA T	23	23	22	19	23	23	22	19
1050	MBh	27.5	28.0	29.3	31.3	26.8	27.3	28.6	30.5
	ST	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71
	DELTA T	23	23	22	19	23	23	22	19
	KW	1.85	1.89	1.95	2.02	2.00	2.04	2.11	2.18
	AMPS	8.1	8.3	8.6	8.9	8.7	8.9	9.2	9.5
	HI PR	151	162	171	179	169	182	192	201
	LO PR	63	67	73	78	66	71	77	82
	MBh	26.1	26.6	27.8	29.7	25.5	26.0	27.2	29.0
	ST	0.93	0.90	0.81	0.66	0.97	0.93	0.84	0.68
	DELTA T	24	24	22	19	24	24	23	20
927	MBh	26.1	26.6	27.8	29.7	25.5	26.0	27.2	29.0
	ST	0.93	0.90	0.81	0.66	0.97	0.93	0.84	0.68
	DELTA T	24	24	22	19	24	24	23	20
	KW	1.82	1.86	1.92	1.98	1.96	2.01	2.07	2.15
	AMPS	8.0	8.2	8.4	8.7	8.6	8.8	9.1	9.4
	HI PR	148	159	168	175	166	179	189	197
	LO PR	62	66	72	76	65	69	76	80
	MBh	26.1	26.6	27.8	29.7	25.5	26.0	27.2	29.0
	ST	0.93	0.90	0.81	0.66	0.97	0.93	0.84	0.68
	DELTA T	24	24	22	19	24	24	23	20

Shaded area is AHRJ Rating Conditions

High and low pressures are measured at the liquid and suction service valves.

IDB: Entering Indoor Dry Bulb Temperature

KW=Total system power

AMPS=outdoor unit amps (comp.+fan)

COOLING PERFORMANCE DATA

VSH130361A*

EXPANDED PERFORMANCE DATA

MODEL: VSH130361A* / AR*F364216B*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHR195 test conditions

COOLING OPERATION

Outdoor Ambient Temperature																																							
65														75							85							95				105				115			
Entering Indoor Wet Bulb Temperature																																							
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71										
70	1425	MBh	33.8	35.0	38.4	-	33.0	34.2	37.5	-	32.2	33.4	36.6	-	31.4	32.6	35.7	-	29.9	31.0	33.9	-	27.7	28.7	31.4	-	27.7	28.7	31.4	-									
		S/T	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.80	0.67	0.47	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-	0.87	0.73	0.50	-									
		DELTA T	17	14	11	-	17	14	11	-	17	14	11	-	17	15	11	-	17	14	11	-	16	13	10	-	16	13	10	-									
		KW	2.47	2.52	2.60	-	2.65	2.70	2.79	-	2.81	2.86	2.95	-	2.95	3.01	3.10	-	3.06	3.13	3.23	-	3.16	3.23	3.33	-	3.16	3.23	3.33	-									
		AMPS	9.2	9.4	9.7	-	9.9	10.1	10.5	-	10.7	11.0	11.3	-	11.5	11.7	12.1	-	12.2	12.5	12.9	-	12.9	13.2	13.6	-	12.9	13.2	13.6	-									
		HIPR	143	154	163	-	161	173	183	-	183	197	208	-	208	224	236	-	234	252	266	-	259	278	294	-	259	278	294	-									
		LO PR	65	69	76	-	69	73	80	-	72	76	83	-	75	80	87	-	79	84	91	-	81	87	95	-	81	87	95	-									
70	1275	MBh	33.3	34.5	37.8	-	32.5	33.7	36.9	-	31.7	32.9	36.1	-	31.0	32.1	35.2	-	29.4	30.5	33.4	-	27.3	28.3	31.0	-	27.3	28.3	31.0	-									
		S/T	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.80	0.66	0.46	-	0.83	0.69	0.48	-	0.83	0.70	0.48	-	0.83	0.70	0.48	-									
		DELTA T	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-	16	14	11	-									
		KW	2.46	2.51	2.58	-	2.64	2.69	2.77	-	2.79	2.85	2.94	-	2.93	2.99	3.08	-	3.05	3.11	3.21	-	3.15	3.21	3.32	-	3.15	3.21	3.32	-									
		AMPS	9.1	9.3	9.6	-	9.8	10.1	10.4	-	10.7	10.9	11.3	-	11.4	11.7	12.0	-	12.1	12.4	12.8	-	12.8	13.1	13.6	-	12.8	13.1	13.6	-									
		HIPR	142	153	162	-	159	172	181	-	181	195	206	-	207	222	235	-	232	250	264	-	257	276	292	-	257	276	292	-									
		LO PR	65	69	75	-	68	73	79	-	71	76	82	-	75	79	87	-	78	83	91	-	81	86	94	-	81	86	94	-									
1125	1125	MBh	31.6	32.8	35.9	-	30.9	32.0	35.1	-	30.2	31.3	34.3	-	29.4	30.5	33.4	-	28.0	29.0	31.7	-	25.9	26.8	29.4	-	25.9	26.8	29.4	-									
		S/T	0.69	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-	0.80	0.67	0.46	-									
		DELTA T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-									
		KW	2.42	2.47	2.54	-	2.60	2.65	2.73	-	2.75	2.81	2.89	-	2.88	2.94	3.03	-	3.00	3.06	3.16	-	3.10	3.16	3.26	-	3.10	3.16	3.26	-									
		AMPS	9.0	9.2	9.5	-	9.7	9.9	10.2	-	10.5	10.7	11.1	-	11.2	11.4	11.8	-	11.9	12.2	12.6	-	12.6	12.9	13.3	-	12.6	12.9	13.3	-									
		HIPR	139	150	158	-	156	168	178	-	178	191	202	-	202	218	230	-	228	245	259	-	252	271	286	-	252	271	286	-									
		LO PR	63	67	74	-	67	71	78	-	70	74	81	-	73	78	85	-	77	82	89	-	79	84	92	-	79	84	92	-									

		75																													
1425		MBh	34.37	35.39	38.30	41.11	33.57	34.56	37.41	40.15	32.77	33.74	36.52	39.20	31.97	32.92	35.63	38.24	30.37	31.27	33.85	36.33	28.14	28.97	31.36	33.63	28.14	28.97	31.36	33.63	
		S/T	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.91	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.88	0.67	0.43	0.99	0.88	0.67	0.43	
		DELTA T	19	18	14	10	19	18	15	10	19	18	15	10	19	18	15	10	19	18	14	10	18	17	14	9	18	17	14	9	
		KW	2.49	2.54	2.62	2.69	2.67	2.72	2.81	2.89	2.83	2.89	2.98	3.07	2.97	3.03	3.13	3.23	3.09	3.15	3.25	3.36	3.19	3.26	3.36	3.47	3.19	3.26	3.36	3.47	
		AMPS	9.3	9.5	9.8	10.1	10.0	10.2	10.5	10.9	10.8	11.1	11.4	11.9	11.6	11.8	12.2	12.7	12.3	12.6	13.0	13.5	13.0	13.3	13.8	14.3	13.0	13.3	13.8	14.3	
		HIPR	145	156	164	171	162	175	184	192	185	199	210	219	210	226	239	249	236	254	269	280	261	281	297	310	261	281	297	310	
		LO PR	66	70	76	81	70	74	81	86	72	77	84	89	76	81	88	94	80	85	92	98	82	88	96	102	82	88	96	102	
		MBh	33.9	34.9	37.7	40.5	33.1	34.1	36.9	39.6	32.3	33.2	36.0	38.6	31.5	32.4	35.1	37.7	29.9	30.8	33.3	35.8	27.7	28.5	30.9	33.2	27.7	28.5	30.9	33.2	
		S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41	0.95	0.85	0.64	0.41	
1275		DELTA T	20	19	15	10	20	19	15	11	20	19	15	11	21	19	15	11	20	19	15	11	19	17	14	10	19	17	14	10	
		KW	2.48	2.53	2.60	2.68	2.66	2.71	2.79	2.88	2.81	2.87	2.96	3.05	2.95	3.01	3.11	3.21	3.07	3.14	3.23	3.34	3.17	3.24	3.34	3.45	3.17	3.24	3.34	3.45	
		AMPS	9.2	9.4	9.7	10.1	9.9	10.2	10.5	10.9	10.8	11.0	11.4	11.8	11.5	11.8	12.1	12.6	12.2	12.5	12.9	13.4	12.9	13.2	13.7	14.2	12.9	13.2	13.7	14.2	
		HIPR	144	155	163	170	161	173	183	191	183	197	208	217	209	225	237	247	235	253	267	278	259	279	295	307	259	279	295	307	
		LO PR	65	70	76	81	69	73	80	85	72	76	83	89	75	80	88	93	79	84	92	98	82	87	95	101	82	87	95	101	
		MBh	32.2	33.1	35.9	38.5	31.4	32.4	35.0	37.6	30.7	31.6	34.2	36.7	29.9	30.81	33.3	35.8	28.4	29.3	31.7	34.0	26.3	27.1	29.3	31.5	26.3	27.1	29.3	31.5	
		S/T	0.79	0.71	0.53	0.34	0.82	0.73	0.55	0.36	0.84	0.75	0.57	0.37	0.87	0.77	0.59	0.38	0.90	0.80	0.61	0.39	0.91	0.81	0.61	0.39	0.91	0.81	0.61	0.39	
1125		DELTA T	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	21	19	16	11	20	18	15	10	21	19	16	11	10
		KW	2.44	2.49	2.56	2.64	2.62	2.67	2.75	2.83	2.77	2.83	2.91	3.00	2.91	2.97	3.06	3.16	3.02	3.09	3.18	3.28	3.12	3.19	3.29	3.39	3.12	3.19	3.29	3.39	
		AMPS	9.0	9.2	9.5	9.9	9.7	10.0	10.3	10.7	10.6	10.8	11.2	11.6	11.3	11.5	11.9	12.4	12.0	12.3	12.7	13.2	12.7	13.0	13.4	13.9	12.7	13.0	13.4	13.9	
		HIPR	141	151	160	167	158	170	179	187	180	193	204	213	205	220	232	242	230	248	261	273	254	274	289	301	254	274	289	301	
		LO PR	64	68	74	79	68	72	79	84	70	75	82	87	74	79	86	91	77	82	90	96	80	85	93	99	80	85	93	99	

COOLING PERFORMANCE DATA

VSH130361A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VSH130361A* / AR*F364216B*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRJ 95 test conditions

		Outdoor Ambient Temperature				95				105				115											
		65		75		85		Entering Indoor Wet Bulb Temperature		95		105		115											
1425	MBh	34.98	35.75	38.19	40.82	34.17	34.91	37.30	39.88	33.35	34.08	36.41	38.93	32.54	33.25	35.53	37.98	30.91	31.59	33.75	36.08	28.64	29.26	31.26	33.42
	S/T	0.94	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62
	DELTA T	21	20	18	14	22	21	18	14	22	21	18	14	21	21	18	14	20	20	18	14	18	19	17	13
	KW	2.51	2.56	2.64	2.72	2.69	2.75	2.83	2.92	2.85	2.91	3.00	3.09	2.99	3.06	3.15	3.25	3.11	3.18	3.28	3.38	3.22	3.28	3.39	3.50
	AMPS	9.3	9.6	9.9	10.2	10.1	10.3	10.6	11.0	10.9	11.2	11.6	12.0	11.7	11.9	12.3	12.8	12.4	12.7	13.1	13.6	13.1	13.4	13.9	14.4
	HIPR	146	157	166	173	164	176	186	194	186	201	212	221	212	228	241	252	239	257	271	283	264	284	300	313
	LO PR	66	71	77	82	70	75	82	87	73	78	85	90	77	82	89	95	80	85	93	99	83	88	97	103
	MBh	34.5	35.2	37.6	40.2	33.7	34.4	36.8	39.3	32.9	33.6	35.9	38.4	32.1	32.8	35.0	37.4	30.5	31.1	33.3	35.5	28.2	28.8	30.8	32.9
	S/T	0.90	0.85	0.69	0.52	0.94	0.88	0.72	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59
	DELTA T	22	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	20	20	18	14
1275	KW	2.50	2.55	2.62	2.70	2.68	2.73	2.81	2.90	2.84	2.89	2.98	3.08	2.98	3.04	3.13	3.23	3.10	3.16	3.26	3.37	3.20	3.27	3.37	3.48
	AMPS	9.3	9.5	9.8	10.2	10.0	10.2	10.6	11.0	10.9	11.1	11.5	11.9	11.6	11.9	12.3	12.7	12.3	12.6	13.0	13.5	13.0	13.4	13.8	14.3
	HIPR	145	156	165	172	163	175	185	193	185	199	210	219	211	227	240	250	237	255	270	281	262	282	298	311
	LO PR	66	70	77	82	70	74	81	86	72	77	84	90	76	81	88	94	80	85	93	99	83	88	96	102
	MBh	32.7	33.5	35.7	38.2	32.0	32.7	34.9	37.3	31.2	31.9	34.1	36.4	30.5	31.1	33.3	35.5	28.9	29.6	31.6	33.8	26.8	27.4	29.3	31.3
	S/T	0.87	0.81	0.66	0.49	0.90	0.84	0.69	0.51	0.92	0.86	0.70	0.53	0.95	0.89	0.73	0.54	0.99	0.92	0.75	0.56	0.99	0.93	0.76	0.57
	DELTA T	23	22	19	15	23	22	20	16	23	23	20	16	24	23	20	16	23	22	19	16	22	21	18	14
	KW	2.46	2.51	2.58	2.66	2.64	2.69	2.77	2.86	2.79	2.85	2.94	3.03	2.93	2.99	3.08	3.18	3.05	3.11	3.21	3.31	3.15	3.21	3.32	3.42
	AMPS	9.1	9.3	9.6	10.0	9.8	10.1	10.4	10.8	10.7	10.9	11.3	11.7	11.4	11.7	12.0	12.5	12.1	12.4	12.8	13.3	12.8	13.1	13.6	14.1
	HIPR	142	153	162	168	159	172	181	189	181	195	206	215	207	222	235	245	232	250	264	275	257	276	292	304
LO PR	65	69	75	80	68	73	79	85	71	76	82	88	75	79	87	92	78	83	91	97	81	86	94	100	

		Entering Indoor Dry Bulb Temperature																							
		KW=Total system power																							
1425	MBh	35.59	36.28	38.00	40.54	34.76	35.44	37.11	39.60	33.94	34.59	36.23	38.65	33.11	33.75	35.35	37.71	31.45	32.06	33.58	35.82	29.14	29.70	31.11	33.19
	ST	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80
	DELTA T	23	22	21	18	22	23	21	19	22	22	21	19	21	22	22	19	20	21	21	18	19	19	20	17
	KW	2.53	2.58	2.66	2.74	2.71	2.77	2.85	2.94	2.87	2.93	3.02	3.12	3.02	3.08	3.18	3.28	3.14	3.20	3.31	3.41	3.24	3.31	3.42	3.53
	AMPS	9.4	9.6	9.9	10.3	10.2	10.4	10.7	11.1	11.0	11.3	11.7	12.1	11.8	12.1	12.4	12.9	12.5	12.8	13.2	13.7	13.2	13.6	14.0	14.5
	HIPR	148	159	168	175	166	178	188	196	188	203	214	223	214	231	244	254	241	260	274	286	267	287	303	316
	LO PR	67	71	78	83	71	75	82	88	74	78	86	91	77	82	90	96	81	86	94	100	84	89	97	104
1275	MBh	35.1	35.7	37.4	39.9	34.3	34.9	36.6	39.0	33.4	34.1	35.7	38.1	32.6	33.3	34.8	37.2	31.0	31.6	33.1	35.3	28.7	29.3	30.6	32.7
	ST	0.95	0.91	0.83	0.67	0.98	0.95	0.86	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
	DELTA T	24	24	22	19	24	24	23	20	24	24	23	20	24	24	23	20	22	23	22	19	21	21	21	18
	KW	2.52	2.57	2.64	2.72	2.70	2.75	2.84	2.92	2.86	2.92	3.01	3.10	3.00	3.06	3.16	3.26	3.12	3.19	3.29	3.39	3.22	3.29	3.40	3.51
	AMPS	9.4	9.6	9.9	10.2	10.1	10.3	10.7	11.1	11.0	11.2	11.6	12.0	11.7	12.0	12.4	12.8	12.4	12.7	13.2	13.6	13.2	13.5	13.9	14.5
	HIPR	146	158	166	174	164	177	187	195	187	201	212	222	213	229	242	252	240	258	272	284	265	285	301	314
	LO PR	67	71	77	82	70	75	82	87	73	78	85	91	77	82	89	95	81	86	94	100	83	89	97	103
1125	MBh	33.3	34.0	35.6	37.9	32.5	33.2	34.7	37.1	31.8	32.4	33.9	36.2	31.0	31.6	33.1	35.3	29.4	30.0	31.4	33.5	27.3	27.8	29.1	31.1
	ST	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.66	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.70	1.00	1.00	0.90	0.73	1.00	1.00	0.91	0.74
	DELTA T	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	22	24	23	20	22	23	22	19
	KW	2.48	2.53	2.60	2.68	2.66	2.71	2.79	2.88	2.81	2.87	2.96	3.05	2.95	3.01	3.11	3.21	3.07	3.14	3.23	3.34	3.17	3.24	3.34	3.45
	AMPS	9.2	9.4	9.7	10.1	9.9	10.2	10.5	10.9	10.8	11.0	11.4	11.8	11.5	11.8	12.1	12.6	12.2	12.5	12.9	13.4	12.9	13.2	13.7	14.2
	HIPR	144	154	163	170	161	173	183	191	183	197	208	217	209	225	237	247	235	253	267	278	259	279	295	307
	LO PR	65	69	76	81	69	73	80	85	72	76	83	89	75	80	88	93	79	84	92	98	82	87	95	101

COOLING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VSH130421A* / AR*F364216B*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHR195 test conditions

IDB		Airflow		Outdoor Ambient Temperature																																															
				65								75								85								95								105								115							
				Entering Indoor Wet Bulb Temperature																																															
59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																				
1688	MBh	39.2	40.6	44.5	-	38.3	39.7	43.5	-	37.4	38.7	42.4	-	36.5	37.8	41.4	-	34.6	35.9	39.3	-	32.1	33.3	36.4	-	32.1	33.3	36.4	-	32.1	33.3	36.4	-																		
	S/T	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.87	0.73	0.50	-	0.88	0.73	0.51	-	0.88	0.73	0.51	-	0.88	0.73	0.51	-																		
	DELTA T	16	14	11	-	17	14	11	-	17	14	11	-	17	14	11	-	16	14	11	-	15	13	10	-	15	13	10	-	15	13	10	-																		
	KW	2.84	2.90	2.98	-	3.05	3.11	3.20	-	3.22	3.29	3.39	-	3.38	3.45	3.56	-	3.51	3.59	3.70	-	3.63	3.70	3.82	-	3.63	3.70	3.82	-	3.63	3.70	3.82	-																		
	AMPS	10.6	10.8	11.2	-	11.4	11.7	12.1	-	12.4	12.7	13.1	-	13.2	13.6	14.0	-	14.1	14.4	14.9	-	14.9	15.3	15.8	-	14.9	15.3	15.8	-	14.9	15.3	15.8	-																		
	HIPR	137	148	156	-	154	166	175	-	175	188	199	-	199	215	227	-	224	241	255	-	248	267	282	-	248	267	282	-	248	267	282	-																		
	LOPR	60	64	70	-	64	68	74	-	66	70	77	-	70	74	81	-	73	78	85	-	75	80	88	-	75	80	88	-	75	80	88	-																		
1500	MBh	38.1	39.4	43.2	-	37.2	38.5	42.2	-	36.3	37.6	41.2	-	35.4	36.7	40.2	-	33.6	34.9	38.2	-	31.2	32.3	35.4	-	31.2	32.3	35.4	-	31.2	32.3	35.4	-																		
	S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.49	-	0.84	0.70	0.49	-	0.84	0.70	0.49	-																		
	DELTA T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-	16	14	11	-	16	14	11	-																		
	KW	2.82	2.88	2.96	-	3.02	3.08	3.17	-	3.20	3.26	3.36	-	3.35	3.42	3.53	-	3.49	3.56	3.67	-	3.60	3.68	3.79	-	3.60	3.68	3.79	-	3.60	3.68	3.79	-																		
	AMPS	10.5	10.7	11.1	-	11.3	11.6	11.9	-	12.3	12.6	13.0	-	13.1	13.4	13.9	-	13.9	14.3	14.8	-	14.8	15.1	15.6	-	14.8	15.1	15.6	-	14.8	15.1	15.6	-																		
	HIPR	136	146	154	-	152	164	173	-	173	187	197	-	197	212	224	-	222	239	252	-	245	264	279	-	245	264	279	-	245	264	279	-																		
	LOPR	60	63	69	-	63	67	73	-	66	70	76	-	69	73	80	-	72	77	84	-	75	79	87	-	75	79	87	-	75	79	87	-																		
1313	MBh	35.1	36.4	39.9	-	34.3	35.6	39.0	-	33.5	34.7	38.0	-	32.7	33.9	37.1	-	31.0	32.2	35.2	-	28.8	29.8	32.7	-	28.8	29.8	32.7	-	28.8	29.8	32.7	-																		
	S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.81	0.68	0.47	-	0.81	0.68	0.47	-	0.81	0.68	0.47	-																		
	DELTA T	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-	16	14	11	-	16	14	11	-																		
	KW	2.76	2.82	2.90	-	2.96	3.01	3.10	-	3.13	3.19	3.28	-	3.28	3.34	3.45	-	3.40	3.47	3.58	-	3.51	3.59	3.70	-	3.51	3.59	3.70	-	3.51	3.59	3.70	-																		
	AMPS	10.2	10.4	10.8	-	11.0	11.3	11.6	-	11.9	12.2	12.6	-	12.7	13.1	13.5	-	13.6	13.9	14.4	-	14.4	14.7	15.2	-	14.4	14.7	15.2	-	14.4	14.7	15.2	-																		
	HIPR	132	142	150	-	148	159	168	-	168	181	191	-	191	206	218	-	215	232	245	-	238	256	270	-	238	256	270	-	238	256	270	-																		
	LOPR	58	62	67	-	61	65	71	-	64	68	74	-	67	71	78	-	70	74	81	-	72	77	84	-	72	77	84	-	72	77	84	-																		

VSH130421A*

		75																											
		1688								1500								1313											
MBh	39.86	41.04	44.42	47.68	38.93	40.09	43.39	46.57	38.01	39.13	42.36	45.46	37.08	38.18	41.32	44.35	35.23	36.27	39.26	42.13	32.63	33.60	36.36	39.03					
S/T	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.93	0.83	0.63	0.40	0.95	0.85	0.65	0.42	0.99	0.89	0.67	0.43	1.00	0.89	0.68	0.44					
DELTA T	19	17	14	10	19	18	14	10	19	18	14	10	19	18	15	10	19	18	14	10	18	16	13	9					
KW	2.87	2.92	3.01	3.10	3.07	3.13	3.22	3.32	3.25	3.31	3.41	3.52	3.41	3.48	3.58	3.70	3.54	3.62	3.73	3.85	3.66	3.73	3.85	3.97					
AMPS	10.7	10.9	11.3	11.7	11.5	11.8	12.2	12.6	12.5	12.8	13.2	13.7	13.4	13.7	14.1	14.7	14.2	14.6	15.0	15.6	15.1	15.4	15.9	16.5					
HIPR	139	149	157	164	155	167	177	184	177	190	201	210	201	217	229	239	227	244	257	269	250	269	285	297					
LOPR	61	65	71	75	64	68	75	80	67	71	78	83	70	75	82	87	74	78	85	91	76	81	88	94					
MBh	38.7	39.8	43.1	46.3	37.8	38.9	42.1	45.2	36.9	38.0	41.1	44.1	36.0	37.1	40.1	43.1	34.2	35.2	38.1	40.9	31.7	32.6	35.3	37.9					
S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.81	0.62	0.40	0.95	0.85	0.64	0.41	0.95	0.85	0.65	0.42					
DELTA T	20	18	15	10	20	18	15	10	20	18	15	10	20	19	15	10	20	18	15	10	19	17	14	10					
KW	2.84	2.90	2.98	3.07	3.05	3.11	3.20	3.30	3.22	3.29	3.39	3.49	3.38	3.45	3.56	3.67	3.51	3.59	3.70	3.82	3.63	3.70	3.82	3.94					
AMPS	10.6	10.8	11.2	11.6	11.4	11.7	12.1	12.5	12.4	12.7	13.1	13.6	13.2	13.6	14.0	14.5	14.1	14.4	14.9	15.5	14.9	15.3	15.8	16.4					
HIPR	137	148	156	163	154	166	175	182	175	188	199	208	199	215	227	236	224	241	255	266	248	267	282	294					
LOPR	60	64	70	75	64	68	74	79	66	70	77	82	70	74	81	86	73	78	85	90	75	80	88	93					
MBh	35.7	36.8	39.8	42.7	34.9	35.9	38.9	41.7	34.1	35.1	38.0	40.7	33.2	34.21	37.0	39.7	31.6	32.5	35.2	37.8	29.2	30.1	32.6	35.0					
S/T	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.79	0.59	0.38	0.91	0.82	0.62	0.40	0.92	0.82	0.62	0.40					
DELTA T	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	10	19	17	14	10					
KW	2.78	2.84	2.92	3.00	2.98	3.04	3.13	3.22	3.15	3.21	3.31	3.41	3.30	3.37	3.47	3.58	3.43	3.50	3.61	3.72	3.54	3.62	3.73	3.85					
AMPS	10.3	10.5	10.9	11.3	11.1	11.4	11.7	12.2	12.0	12.3	12.7	13.2	12.9	13.2	13.6	14.1	13.7	14.0	14.5	15.0	14.5	14.9	15.4	15.9					
HIPR	133	143	151	158	149	161	170	177	170	183	193	201	193	208	220	229	218	234	247	258	240	259	273	285					
LOPR	58	62	68	72	62	66	72	76	64	68	75	79	67	72	78	83	71	75	82	87	73	78	85	90					

COOLING PERFORMANCE DATA

VSH130421A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VSH130421A* / AR*F364216B*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRJ 95 test conditions

		Outdoor Ambient Temperature																							
		65				75				85				95				105				115			
		Entering Indoor Wet Bulb Temperature																							
1688	MBh	40.57	41.46	44.29	47.35	39.63	40.49	43.26	46.24	38.68	39.53	42.23	45.14	37.74	38.56	41.20	44.04	35.85	36.64	39.14	41.84	33.21	33.94	36.26	38.76
	S/T	0.95	0.90	0.73	0.54	1.00	0.93	0.76	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.84	0.63
	DELTA T	21	20	18	14	22	20	18	14	21	20	18	14	21	21	18	14	20	20	18	14	18	18	17	13
	KW	2.89	2.94	3.03	3.12	3.09	3.15	3.25	3.35	3.27	3.34	3.44	3.55	3.43	3.50	3.61	3.73	3.57	3.64	3.76	3.88	3.69	3.76	3.88	4.01
	AMPS	10.7	11.0	11.4	11.8	11.6	11.9	12.3	12.7	12.6	12.9	13.3	13.8	13.5	13.8	14.3	14.8	14.3	14.7	15.2	15.8	15.2	15.6	16.1	16.7
	HI/PR	1.40	1.51	1.59	1.66	1.57	1.69	1.78	1.86	1.79	1.92	2.03	2.12	2.03	2.19	2.31	2.41	2.29	2.46	2.60	2.71	2.53	2.72	2.87	3.00
1500	LOPR	62	65	71	76	65	69	75	80	68	72	78	84	71	75	82	88	74	79	86	92	77	82	89	95
	MBh	39.4	40.2	43.0	46.0	38.5	39.3	42.0	44.9	37.6	38.4	41.0	43.8	36.6	37.4	40.0	42.8	34.8	35.6	38.0	40.6	32.2	32.9	35.2	37.6
	S/T	0.91	0.85	0.70	0.52	0.94	0.89	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.98	0.80	0.60
	DELTA T	22	21	18	15	22	21	19	15	22	21	19	15	22	21	19	15	21	21	18	15	20	20	17	14
	KW	2.87	2.92	3.01	3.10	3.07	3.13	3.22	3.32	3.25	3.31	3.42	3.52	3.41	3.48	3.58	3.70	3.54	3.62	3.73	3.85	3.66	3.73	3.85	3.98
	AMPS	10.7	10.9	11.3	11.7	11.5	11.8	12.2	12.6	12.5	12.8	13.2	13.7	13.4	13.7	14.1	14.7	14.2	14.6	15.0	15.6	15.1	15.4	15.9	16.5
1313	HI/PR	1.39	1.49	1.57	1.64	1.56	1.67	1.77	1.84	1.77	1.90	2.01	2.10	2.01	2.17	2.29	2.39	2.27	2.44	2.58	2.69	2.50	2.69	2.85	2.97
	LOPR	61	65	71	75	64	68	75	80	67	71	78	83	70	75	82	87	74	78	85	91	76	81	88	94
	MBh	36.4	37.1	39.7	42.4	35.5	36.3	38.8	41.4	34.7	35.4	37.8	40.5	33.8	34.6	36.9	39.5	32.1	32.8	35.1	37.5	29.8	30.4	32.5	34.7
	S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.88	0.71	0.53	0.96	0.90	0.74	0.55	1.00	0.94	0.76	0.57	1.01	0.95	0.77	0.58
	DELTA T	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	21	20	18	14
	KW	2.80	2.86	2.94	3.03	3.00	3.06	3.15	3.25	3.17	3.24	3.34	3.44	3.33	3.40	3.50	3.61	3.46	3.53	3.64	3.75	3.57	3.65	3.76	3.88
80	AMPS	10.4	10.6	11.0	11.4	11.2	11.5	11.8	12.3	12.2	12.4	12.9	13.3	13.0	13.3	13.7	14.3	13.8	14.2	14.6	15.2	14.6	15.0	15.5	16.1
	HI/PR	1.34	1.45	1.53	1.59	1.51	1.62	1.71	1.79	1.72	1.85	1.95	2.03	1.95	2.10	2.22	2.32	2.20	2.37	2.50	2.61	2.43	2.61	2.76	2.88
	LOPR	59	63	69	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	79	86	91
	MBh	35.4	36.1	38.7	41.3	34.5	35.3	37.8	40.4	33.6	34.3	36.7	39.3	32.8	33.5	35.8	38.4	31.3	32.0	34.3	36.9	29.2	29.8	31.9	34.1
	S/T	0.87	0.81	0.66	0.49	0.90	0.84	0.68	0.51	0.92	0.87	0.70	0.52	0.95	0.89	0.73	0.54	1.00	0.93	0.75	0.56	1.01	0.94	0.76	0.57
	DELTA T	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	21	20	18	14

COOLING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VSH130481A* / AR*F486016B*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRJ 95 test conditions

IDB		Airflow		Outdoor Ambient Temperature																																																																							
				65												75												85												95												105												115											
				Entering Indoor Wet Bulb Temperature																																																																							
				59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																																								
70	1800	MBh	44.1	45.7	50.1	-	43.1	44.6	48.9	-	42.0	43.6	47.7	-	41.0	42.5	46.6	-	39.0	40.4	44.3	-	36.1	37.4	41.0	-																																																	
		S/T	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.81	0.67	0.47	-	0.83	0.70	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-																																																	
		DELTA T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-																																																	
		KW	3.22	3.28	3.37	-	3.44	3.51	3.61	-	3.64	3.71	3.82	-	3.81	3.89	4.01	-	3.96	4.04	4.17	-	4.09	4.17	4.30	-																																																	
		AMPS	12.1	12.4	12.8	-	13.0	13.4	13.8	-	14.2	14.5	15.0	-	15.1	15.5	16.0	-	16.1	16.5	17.0	-	17.1	17.5	18.1	-																																																	
		HI PR	142	153	161	-	159	172	181	-	181	195	206	-	207	222	235	-	232	250	264	-	257	276	292	-																																																	
	LO PR	64	68	74	-	67	72	78	-	70	75	81	-	74	78	86	-	77	82	90	-	80	85	93	-																																																		
	1600	MBh	42.8	44.4	48.6	-	41.8	43.3	47.5	-	40.8	42.3	46.4	-	39.8	41.3	45.2	-	37.8	39.2	43.0	-	35.0	36.3	39.8	-																																																	
		S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-																																																	
		DELTA T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	14	11	-																																																	
KW		3.20	3.26	3.35	-	3.42	3.48	3.58	-	3.61	3.68	3.79	-	3.78	3.86	3.98	-	3.93	4.01	4.13	-	4.06	4.14	4.27	-																																																		
AMPS		12.0	12.3	12.7	-	12.9	13.2	13.7	-	14.0	14.4	14.8	-	15.0	15.4	15.9	-	16.0	16.3	16.9	-	16.9	17.3	17.9	-																																																		
HI PR		141	151	160	-	158	170	179	-	180	193	204	-	205	220	232	-	230	248	261	-	254	274	289	-																																																		
LO PR	63	67	73	-	67	71	78	-	69	74	81	-	73	78	85	-	76	81	89	-	79	84	92	-																																																			
1400	MBh	39.5	41.0	44.9	-	38.6	40.0	43.8	-	37.7	39.1	42.8	-	36.8	38.1	41.7	-	34.9	36.2	39.7	-	32.3	33.5	36.7	-																																																		
	S/T	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-																																																		
	DELTA T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-																																																		
	KW	3.13	3.19	3.28	-	3.34	3.41	3.50	-	3.53	3.60	3.71	-	3.70	3.77	3.89	-	3.84	3.92	4.04	-	3.96	4.04	4.17	-																																																		
	AMPS	11.7	11.9	12.3	-	12.6	12.9	13.3	-	13.7	14.0	14.4	-	14.6	14.9	15.4	-	15.5	15.9	16.4	-	16.4	16.8	17.4	-																																																		
	HI PR	136	147	155	-	153	165	174	-	174	187	198	-	198	213	225	-	223	240	254	-	247	265	280	-																																																		
LO PR	61	65	71	-	65	69	75	-	67	72	78	-	71	75	82	-	74	79	86	-	77	82	89	-																																																			

VSH130481A*

75	1800	MBh	44.84	46.17	49.98	53.64	43.80	45.10	48.81	52.39	42.76	44.02	47.65	51.14	41.72	42.95	46.49	49.89	39.63	40.80	44.16	47.40	36.71	37.80	40.91	43.91
		S/T	0.86	0.77	0.58	0.38	0.89	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.89	0.67	0.43
		DELTA T	20	18	15	10	20	18	15	10	20	18	15	10	20	19	15	11	20	18	15	10	19	17	14	10
		KW	3.24	3.30	3.40	3.50	3.47	3.54	3.64	3.75	3.67	3.74	3.85	3.97	3.84	3.92	4.04	4.16	3.99	4.07	4.20	4.33	4.12	4.21	4.34	4.47
		AMPS	12.2	12.5	12.9	13.4	13.2	13.5	13.9	14.4	14.3	14.6	15.1	15.7	15.3	15.6	16.2	16.8	16.2	16.6	17.2	17.9	17.2	17.6	18.2	18.9
		HI PR	144	154	163	170	161	173	183	191	183	197	208	217	209	225	237	247	235	253	267	278	259	279	295	307
		LO PR	65	69	75	80	68	73	79	84	71	75	82	88	74	79	86	92	78	83	91	96	81	86	94	100
		MBh	43.5	44.8	48.5	52.1	42.5	43.8	47.4	50.9	41.5	42.7	46.3	49.7	40.5	41.7	45.1	48.4	38.5	39.6	42.9	46.0	35.6	36.7	39.7	42.6
		S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.94	0.84	0.64	0.41
		DELTA T	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
1600	KW	3.22	3.28	3.37	3.47	3.44	3.51	3.61	3.72	3.64	3.71	3.82	3.94	3.81	3.89	4.01	4.13	3.96	4.04	4.17	4.30	4.09	4.17	4.30	4.44	
	AMPS	12.1	12.4	12.8	13.2	13.0	13.4	13.8	14.3	14.2	14.5	15.0	15.5	15.1	15.5	16.0	16.6	16.1	16.5	17.0	17.7	17.1	17.5	18.1	18.7	
	HI PR	142	153	162	168	159	172	181	189	181	195	206	215	207	222	235	245	232	250	264	275	257	276	292	304	
	LO PR	64	68	74	79	68	72	78	83	70	75	81	87	74	78	86	91	77	82	90	96	80	85	93	99	
	MBh	40.2	41.4	44.8	48.1	39.3	40.4	43.7	46.9	38.3	39.5	42.7	45.8	37.4	38.49	41.7	44.7	35.5	36.6	39.6	42.5	32.9	33.9	36.7	39.3	
	S/T	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.81	0.62	0.40	
	DELTA T	21	19	16	11	21	20	16	11	21	20	16	11	21	20	16	11	21	19	16	11	20	18	15	10	
1400	KW	3.15	3.21	3.30	3.40	3.37	3.43	3.53	3.64	3.56	3.63	3.74	3.85	3.73	3.80	3.92	4.04	3.87	3.95	4.07	4.20	3.99	4.08	4.20	4.33	
	AMPS	11.8	12.0	12.4	12.9	12.7	13.0	13.4	13.9	13.8	14.1	14.6	15.1	14.7	15.1	15.6	16.2	15.7	16.0	16.6	17.2	16.6	17.0	17.6	18.2	
	HI PR	138	148	157	163	155	166	176	183	176	189	200	209	200	216	228	238	225	243	256	267	249	268	283	295	
	LO PR	62	66	72	77	65	70	76	81	68	72	79	84	71	76	83	88	75	80	87	93	77	82	90	96	

COOLING PERFORMANCE DATA

VSH130481A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VSH130481A* / AR*F486016B*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRJ 95 test conditions

		Outdoor Ambient Temperature																													
		65					75					85					95					105					115				
		Entering Indoor Wet Bulb Temperature																													
1800	MBh	45.64	46.64	49.83	53.26	44.58	45.55	48.67	52.03	43.52	44.47	47.51	50.79	42.46	43.38	46.35	49.55	40.33	41.21	44.03	47.07	37.36	38.18	40.79	43.60						
	ST	0.95	0.89	0.72	0.54	1.00	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62						
	DELTA T	22	21	18	15	23	21	19	15	22	21	19	15	22	22	19	15	21	21	18	15	19	19	17	14						
	KW	3.27	3.33	3.42	3.52	3.49	3.56	3.67	3.78	3.69	3.77	3.88	4.00	3.87	3.95	4.07	4.20	4.02	4.11	4.23	4.37	4.15	4.24	4.37	4.51						
	AMPS	12.3	12.6	13.0	13.5	13.3	13.6	14.0	14.6	14.4	14.8	15.3	15.8	15.4	15.8	16.3	16.9	16.4	16.8	17.4	18.0	17.4	17.8	18.4	19.1						
	HI PR	145	156	165	172	163	175	185	193	185	199	210	219	211	227	240	250	237	255	269	281	262	282	298	311						
	LO PR	65	69	76	81	69	73	80	85	72	76	83	89	75	80	87	93	79	84	92	97	81	87	95	101						
		MBh	44.3	45.3	48.4	51.7	43.3	44.2	47.3	50.5	42.3	43.2	46.1	49.3	41.2	42.1	45.0	48.1	39.2	40.0	42.8	45.7	36.3	37.1	39.6	42.3					
1600	ST	0.90	0.85	0.69	0.51	0.94	0.88	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.56	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59						
	DELTA T	23	22	19	15	23	22	19	15	23	22	19	16	23	22	20	16	23	22	19	15	21	21	18	14						
	KW	3.24	3.30	3.40	3.50	3.47	3.54	3.64	3.75	3.67	3.74	3.85	3.97	3.84	3.92	4.04	4.17	3.99	4.07	4.20	4.33	4.12	4.21	4.34	4.47						
	AMPS	12.2	12.5	12.9	13.4	13.2	13.5	13.9	14.4	14.3	14.6	15.1	15.7	15.3	15.6	16.2	16.8	16.3	16.6	17.2	17.9	17.2	17.6	18.2	18.9						
	HI PR	144	155	163	170	161	173	183	191	183	197	208	217	209	225	237	247	235	253	267	278	259	279	295	307						
	LO PR	65	69	75	80	68	73	79	84	71	75	82	88	74	79	86	92	78	83	91	96	81	86	94	100						
		MBh	40.9	41.8	44.7	47.7	39.9	40.8	43.6	46.6	39.0	39.8	42.6	45.5	38.0	38.9	41.5	44.4	36.1	36.9	39.5	42.2	33.5	34.2	36.6	39.1					
	ST	0.87	0.82	0.66	0.50	0.90	0.85	0.69	0.51	0.92	0.87	0.71	0.53	0.95	0.90	0.73	0.54	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57						
1400	DELTA T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15						
	KW	3.17	3.23	3.32	3.42	3.39	3.46	3.56	3.66	3.58	3.66	3.76	3.88	3.75	3.83	3.95	4.07	3.90	3.98	4.10	4.23	4.03	4.11	4.23	4.37						
	AMPS	11.9	12.1	12.5	13.0	12.8	13.1	13.5	14.0	13.9	14.2	14.7	15.3	14.9	15.2	15.7	16.3	15.8	16.2	16.7	17.4	16.7	17.1	17.7	18.4						
	HI PR	139	150	158	165	156	168	178	185	178	191	202	211	202	218	230	240	228	245	259	270	252	271	286	298						
	LO PR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97						
		MBh	40.9	41.8	44.7	47.7	39.9	40.8	43.6	46.6	39.0	39.8	42.6	45.5	38.0	38.9	41.5	44.4	36.1	36.9	39.5	42.2	33.5	34.2	36.6	39.1					
	ST	0.87	0.82	0.66	0.50	0.90	0.85	0.69	0.51	0.92	0.87	0.71	0.53	0.95	0.90	0.73	0.54	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57						
	DELTA T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15						

1800	MBh	46.44	47.34	49.58	52.89	45.36	46.24	48.42	51.66	44.28	45.14	47.27	50.43	43.20	44.03	46.12
	ST	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.74	1.00	1.00	0.95
	DELTA T	24	23	22	19	23	23	22	19	23	23	22	19	22	22	19
	KW	3.29	3.35	3.45	3.55	3.52	3.59	3.69	3.81	3.72	3.80	3.91	4.03	3.90	3.98	4.10
	AMPS	12.4	12.7	13.1	13.6	13.4	13.7	14.2	14.7	14.6	14.9	15.4	16.0	15.6	15.9	16.5
	HI PR	146	158	166	174	164	177	187	195	187	201	212	222	213	229	242
	LO PR	66	70	76	81	70	74	81	86	72	77	84	89	76	81	88
	MBh	45.1	46.0	48.1	51.4	44.0	44.9	47.0	50.2	43.0	43.8	45.9	49.0	41.9	42.8	44.8
	ST	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90
	DELTA T	25	24	23	20	25	24	23	20	25	24	23	20	24	25	23
1600	MBh	3.27	3.33	3.42	3.52	3.49	3.56	3.67	3.78	3.69	3.77	3.88	4.00	3.87	3.95	4.07
	ST	1.23	1.26	1.30	1.35	1.33	1.36	1.40	14.6	14.4	14.8	15.3	15.8	15.4	15.8	16.3
	DELTA T	14.5	15.6	16.5	17.2	16.3	17.5	18.5	19.3	185	199	210	219	211	227	240
	KW	65	69	76	81	69	73	80	85	72	76	83	89	75	80	87
	AMPS	41.6	42.4	44.4	47.4	40.6	41.4	43.4	46.3	39.7	40.4	42.4	45.2	38.7	39.5	41.3
	HI PR	0.91	0.88	0.79	0.64	0.95	0.91	0.82	0.67	0.97	0.94	0.84	0.68	1.00	0.97	0.87
	LO PR	25	25	23	20	25	25	23	20	25	25	23	20	25	25	24
	MBh	41.6	42.4	44.4	47.4	40.6	41.4	43.4	46.3	39.7	40.4	42.4	45.2	38.7	39.5	41.3
	ST	0.91	0.88	0.79	0.64	0.95	0.91	0.82	0.67	0.97	0.94	0.84	0.68	1.00	0.97	0.87
	DELTA T	25	25	23	20	25	25	23	20	25	25	23	20	25	25	24
1400	MBh	3.19	3.26	3.35	3.45	3.42	3.48	3.58	3.69	3.61	3.68	3.79	3.91	3.78	3.86	3.98
	ST	1.20	1.23	1.26	1.31	1.29	1.32	1.37	14.2	14.0	14.4	14.8	15.4	15.0	15.4	15.9
	DELTA T	14.1	15.1	16.0	16.7	158	170	179	187	180	193	204	213	204	220	232
	KW	63	67	73	78	67	71	78	83	69	74	81	86	73	78	85
	AMPS	11.9	12.1	12.5	13.0	12.8	13.1	13.5	14.0	13.9	14.2	14.7	15.3	14.9	15.2	15.7
	HI PR	139	150	158	165	156	168	178	185	178	191	202	211	202	218	230
	LO PR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84
	MBh	40.9	41.8	44.7	47.7	39.9	40.8	43.6	46.6	39.0	39.8	42.6	45.5	38.0	38.9	41.5
	ST	0.87	0.82	0.66	0.50	0.90	0.85	0.69	0.51	0.92	0.87	0.71	0.53	0.95	0.90	0.73
	DELTA T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20

Shaded area is AHRJ Rating Conditions

IDB: Entering Indoor Dry Bulb Temperature

KW=Total system power

AMP=Outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VSH130601A* / AR*F486016B*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHR195 test conditions

70	IDB	Airflow	Outdoor Ambient Temperature																																															
			65								75								85								95								105								115							
			59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																
2025	MBh	54.4	56.4	61.8	-	53.1	55.1	60.3	-	51.9	53.7	58.9	-	50.6	52.4	57.5	-	48.1	49.8	54.6	-	44.5	46.1	50.6	-	44.5	46.1	50.6	-	44.5	46.1	50.6	-																	
	S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-	0.83	0.69	0.48	-	0.83	0.69	0.48	-																	
	DELTA T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-	17	15	11	-																	
	KW	3.84	3.92	4.03	-	4.12	4.20	4.32	-	4.36	4.45	4.58	-	4.57	4.67	4.81	-	4.75	4.85	5.00	-	4.91	5.01	5.17	-	4.91	5.01	5.17	-	4.91	5.01	5.17	-																	
	AMPS	13.8	14.1	14.6	-	14.9	15.2	15.7	-	16.2	16.6	17.1	-	17.3	17.7	18.3	-	18.4	18.8	19.5	-	19.5	20.0	20.6	-	19.5	20.0	20.6	-	19.5	20.0	20.6	-																	
	HIPR	140	151	159	-	157	169	179	-	179	193	204	-	204	220	232	-	229	247	261	-	254	273	288	-	254	273	288	-	254	273	288	-																	
1800	LOPR	59	63	68	-	62	66	72	-	65	69	75	-	68	72	79	-	71	76	82	-	73	78	85	-	73	78	85	-	73	78	85	-																	
	MBh	52.8	54.7	60.0	-	51.6	53.5	58.6	-	50.3	52.2	57.2	-	49.1	50.9	55.8	-	46.7	48.4	53.0	-	43.2	44.8	49.1	-	43.2	44.8	49.1	-	43.2	44.8	49.1	-																	
	S/T	0.69	0.58	0.40	-	0.72	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.79	0.66	0.46	-	0.79	0.66	0.46	-	0.79	0.66	0.46	-																	
	DELTA T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	17	15	11	-	17	15	11	-																	
	KW	3.81	3.89	4.00	-	4.09	4.17	4.29	-	4.32	4.41	4.55	-	4.54	4.63	4.77	-	4.72	4.81	4.96	-	4.87	4.97	5.13	-	4.87	4.97	5.13	-	4.87	4.97	5.13	-																	
	AMPS	13.7	14.0	14.4	-	14.8	15.1	15.6	-	16.0	16.4	17.0	-	17.1	17.5	18.1	-	18.2	18.7	19.3	-	19.3	19.8	20.5	-	19.3	19.8	20.5	-	19.3	19.8	20.5	-																	
1575	HIPR	139	150	158	-	156	168	177	-	177	191	202	-	202	217	230	-	227	245	258	-	251	270	285	-	251	270	285	-	251	270	285	-																	
	LOPR	58	62	68	-	61	65	71	-	64	68	74	-	67	71	78	-	70	75	82	-	73	77	84	-	73	77	84	-	73	77	84	-																	
	MBh	48.7	50.5	55.3	-	47.6	49.3	54.1	-	46.5	48.2	52.8	-	45.3	47.0	51.5	-	43.1	44.6	48.9	-	39.9	41.4	45.3	-	39.9	41.4	45.3	-	39.9	41.4	45.3	-																	
	S/T	0.67	0.56	0.39	-	0.69	0.58	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.76	0.64	0.44	-	0.76	0.64	0.44	-	0.76	0.64	0.44	-																	
	DELTA T	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	13	-	18	15	12	-	18	15	12	-	18	15	12	-																	
	KW	3.73	3.80	3.91	-	3.99	4.07	4.19	-	4.23	4.31	4.44	-	4.43	4.52	4.66	-	4.60	4.70	4.85	-	4.75	4.85	5.01	-	4.75	4.85	5.01	-	4.75	4.85	5.01	-																	
1575	AMPS	13.3	13.6	14.0	-	14.4	14.7	15.2	-	15.6	16.0	16.5	-	16.7	17.1	17.6	-	17.7	18.2	18.8	-	18.8	19.2	19.9	-	18.8	19.2	19.9	-	18.8	19.2	19.9	-																	
	HIPR	135	145	153	-	151	163	172	-	172	185	195	-	196	211	223	-	220	237	250	-	244	262	277	-	244	262	277	-	244	262	277	-																	
	LOPR	56	60	66	-	60	63	69	-	62	66	72	-	65	69	76	-	68	73	79	-	71	75	82	-	71	75	82	-	71	75	82	-																	

75	2025	MBh	55.31	56.94	61.64	66.15	54.02	55.62	60.20	64.61	52.73	54.30	58.77	63.08	51.45	52.97	57.34	61.54	48.88	50.32	54.47	58.46	45.27	46.61	50.46	54.15
		S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.94	0.84	0.64	0.41
		DELTA T	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
		KW	3.87	3.95	4.06	4.18	4.15	4.23	4.36	4.49	4.39	4.48	4.62	4.76	4.61	4.70	4.85	5.00	4.79	4.89	5.04	5.21	4.95	5.05	5.21	5.38
		AMPS	13.9	14.2	14.7	15.2	15.0	15.4	15.9	16.5	16.3	16.7	17.3	17.9	17.4	17.9	18.5	19.2	18.6	19.0	19.7	20.4	19.7	20.2	20.8	21.6
1800	HIPR	142	153	161	168	159	171	181	189	181	195	206	214	206	222	234	244	232	249	263	275	256	276	291	304	
	LOPR	59	63	69	73	63	67	73	78	65	69	76	81	68	73	80	85	72	76	83	89	74	79	86	92	
	MBh	53.7	55.3	59.8	64.2	52.4	54.0	58.4	62.7	51.2	52.7	57.1	61.2	50.0	51.4	55.7	59.7	47.5	48.9	52.9	56.8	44.0	45.3	49.0	52.6	
	S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39	
	DELTA T	22	20	16	11	22	20	16	11	22	20	16	11	22	20	17	11	22	20	16	11	20	19	15	11	
1575	KW	3.84	3.92	4.03	4.15	4.12	4.20	4.32	4.46	4.36	4.45	4.58	4.73	4.57	4.67	4.81	4.96	4.75	4.85	5.00	5.16	4.91	5.01	5.17	5.34	
	AMPS	13.8	14.1	14.6	15.1	14.9	15.2	15.7	16.3	16.2	16.6	17.1	17.8	17.3	17.7	18.3	19.0	18.4	18.8	19.5	20.2	19.5	20.0	20.6	21.4	
	HIPR	140	151	160	166	158	170	179	187	179	193	204	212	204	220	232	242	230	247	261	272	254	273	288	301	
	LOPR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	82	88	73	78	85	91	
	MBh	49.6	51.0	55.2	59.3	48.4	49.8	53.9	57.9	47.3	48.7	52.7	56.5	46.1	47.47	51.4	55.1	43.8	45.1	48.8	52.4	40.6	41.8	45.2	48.5	
	S/T	0.76	0.68	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.38	0.87	0.78	0.59	0.38	
	DELTA T	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	11	21	19	16	11	
	KW	3.76	3.83	3.94	4.06	4.02	4.10	4.23	4.35	4.26	4.34	4.48	4.61	4.46	4.56	4.70	4.84	4.64	4.74	4.88	5.04	4.79	4.89	5.05	5.21	
	AMPS	13.4	13.7	14.2	14.7	14.5	14.8	15.3	15.9	15.7	16.1	16.6	17.3	16.8	17.2	17.8	18.5	17.9	18.3	18.9	19.7	19.0	19.4	20.1	20.8	
	HIPR	136	147	155	161	153	164	174	181	174	187	197	206	198	213	225	235	223	240	253	264	246	265	280	292	
LOPR	57	61	66	71	60	64	70	74	63	67	73	77	66	70	76	81	69	73	80	85	71	76	83	88		

COOLING PERFORMANCE DATA

VSH130601A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VSH130601A* / AR*F486016B*

Design Subcooling 9 ±3 °F @ the liquid service valve, AHRI 95 test conditions

		Outdoor Ambient Temperature																								
		65				75				85				95				105				115				
		Entering Indoor Wet Bulb Temperature																								
2025	MBh	56.29	57.52	61.45	65.69	54.98	56.18	60.02	64.16	53.67	54.84	58.59	62.64	52.36	53.51	57.17	61.11	49.74	50.83	54.31	58.05	46.08	47.09	50.31	53.78	
	S/T	0.90	0.85	0.69	0.51	0.94	0.88	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.56	1.00	0.96	0.78	0.59	1.00	1.00	0.79	0.59	
	DELTA T	23	22	19	15	23	22	19	16	23	22	19	16	24	23	20	16	23	22	19	15	21	21	18	14	
	KW	3.90	3.98	4.09	4.22	4.18	4.26	4.39	4.53	4.43	4.52	4.66	4.80	4.64	4.74	4.89	5.04	4.83	4.93	5.09	5.25	4.99	5.09	5.26	5.43	
	AMPS	14.0	14.4	14.8	15.4	15.2	15.5	16.0	16.6	16.5	16.9	17.4	18.1	17.6	18.0	18.6	19.3	18.7	19.2	19.8	20.6	19.9	20.3	21.0	21.8	
	HI PR	1.43	1.54	1.63	1.70	1.61	1.73	1.83	1.90	1.83	1.97	2.08	2.17	2.08	2.24	2.37	2.47	2.34	2.52	2.66	2.78	2.59	2.78	2.94	3.07	
	LO PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93	
		MBh	54.7	55.8	59.7	63.8	53.4	54.5	58.3	62.3	52.1	53.2	56.9	60.8	50.8	51.9	55.5	59.3	48.3	49.4	52.7	56.4	44.7	45.7	48.8	52.2
1800	S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.89	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56	
	DELTA T	24	23	20	16	24	23	20	16	24	23	20	16	25	23	20	16	24	23	20	16	23	22	19	15	
	KW	3.87	3.95	4.06	4.19	4.15	4.23	4.36	4.49	4.39	4.48	4.62	4.76	4.61	4.70	4.85	5.00	4.79	4.89	5.04	5.21	4.95	5.05	5.21	5.38	
	AMPS	13.9	14.2	14.7	15.2	15.0	15.4	15.9	16.5	16.3	16.7	17.3	17.9	17.4	17.9	18.5	19.2	18.6	19.0	19.7	20.4	19.7	20.2	20.8	21.6	
	HI PR	1.42	1.53	1.61	1.68	1.59	1.71	1.81	1.89	1.81	1.95	2.06	2.14	2.06	2.22	2.34	2.44	2.32	2.50	2.63	2.75	2.56	2.76	2.91	3.04	
	LO PR	59	63	69	73	63	67	73	78	65	69	76	81	68	73	80	85	72	76	83	89	74	79	86	92	
		MBh	50.4	51.5	55.1	58.9	49.3	50.3	53.8	57.5	48.1	49.1	52.5	56.1	46.9	47.9	51.2	54.8	44.6	45.6	48.7	52.0	41.3	42.2	45.1	48.2
	S/T	0.83	0.78	0.63	0.47	0.86	0.81	0.66	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.89	0.72	0.54	0.95	0.89	0.73	0.54	
1575	DELTA T	24	23	20	16	25	24	21	16	25	24	21	16	25	24	21	17	25	24	20	16	23	22	19	15	
	KW	3.79	3.86	3.97	4.09	4.05	4.13	4.26	4.39	4.29	4.38	4.51	4.65	4.50	4.59	4.73	4.88	4.68	4.78	4.92	5.08	4.83	4.93	5.09	5.25	
	AMPS	13.5	13.8	14.3	14.8	14.6	15.0	15.5	16.0	15.9	16.3	16.8	17.4	17.0	17.4	18.0	18.6	18.1	18.5	19.1	19.8	19.1	19.6	20.3	21.0	
	HI PR	1.38	1.48	1.56	1.63	1.54	1.66	1.75	1.83	1.76	1.89	1.99	2.08	2.00	2.15	2.27	2.37	2.25	2.42	2.56	2.67	2.48	2.67	2.82	2.95	
	LO PR	58	61	67	71	61	65	71	75	63	67	73	78	66	71	77	82	70	74	81	86	72	77	84	89	
		MBh	47.5	48.6	52.4	56.6	46.1	47.1	50.6	54.2	44.6	45.6	49.1	52.7	43.2	44.2	47.7	51.3	41.1	42.1	45.6	49.2	38.6	39.6	42.7	45.8
	S/T	0.80	0.75	0.60	0.44	0.83	0.78	0.63	0.46	0.85	0.80	0.64	0.47	0.90	0.84	0.68	0.51	0.92	0.87	0.70	0.53	0.94	0.88	0.71	0.54	
	DELTA T	24	23	20	16	25	24	21	16	25	24	21	16	25	24	21	17	25	24	20	16	23	22	19	15	

HEATING PERFORMANCE DATA

GSH13

EXPANDED PERFORMANCE DATA

MODEL: GSH130181A* / ARUF32-00*-1* / ARUF18241A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	21.1	20.0	18.8	17.6	16.8	16.3	15.1	13.9	10.7	9.9	9.1	8.6	8.3	7.4	6.6	5.7	4.9	4.0
Delta T	32.6	30.9	29.0	27.1	25.9	25.1	23.3	21.5	16.5	15.3	14.1	13.3	12.8	11.5	10.2	8.9	7.6	6.2
KW	1.57	1.54	1.51	1.48	1.46	1.45	1.42	1.39	1.30	1.27	1.24	1.23	1.22	1.19	1.16	1.13	1.10	1.08
AMPS	7.3	6.8	6.4	6.0	5.8	5.7	5.4	5.1	4.9	4.7	4.4	4.3	4.3	4.1	3.8	3.6	3.3	3.0
COP	3.94	3.80	3.65	3.48	3.36	3.29	3.12	2.94	2.41	2.28	2.14	2.05	1.99	1.83	1.66	1.49	1.30	1.09
EER	13.5	13.0	12.5	11.9	11.5	11.2	10.6	10.0	8.2	7.8	7.3	7.0	6.8	6.3	5.7	5.1	4.4	3.7
HI PR	241	231	222	213	208	204	196	188	180	172	165	161	158	152	146	140	135	131
LO PR	83	77	72	66	62	60	55	49	44	40	35	32	31	26	23	19	17	13

EXPANDED PERFORMANCE DATA

MODEL: GSH130181B* / AR*F182416**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	21.1	20.0	18.8	17.6	16.8	16.3	15.1	13.9	10.8	10.0	9.2	8.7	8.4	7.5	6.7	5.8	5.0	4.1
Delta T	30.1	28.5	26.8	25.1	23.9	23.2	21.5	19.9	15.4	14.3	13.1	12.4	11.9	10.7	9.5	8.3	7.1	5.8
KW	1.55	1.53	1.50	1.47	1.45	1.44	1.41	1.38	1.36	1.33	1.30	1.28	1.27	1.24	1.21	1.18	1.15	1.12
AMPS	7.2	6.7	6.3	5.9	5.7	5.6	5.3	5.0	4.8	4.6	4.4	4.3	4.2	4.0	3.7	3.5	3.3	3.0
COP	3.98	3.84	3.68	3.51	3.39	3.31	3.14	2.96	2.34	2.21	2.08	1.99	1.93	1.78	1.61	1.44	1.26	1.06
EER	13.6	13.1	12.6	12.0	11.6	11.3	10.7	10.1	8.0	7.5	7.1	6.8	6.6	6.1	5.5	4.9	4.3	3.6
HI PR	252	242	232	222	217	213	205	196	188	180	173	168	165	159	153	147	141	136
LO PR	82	76	72	66	62	60	55	49	44	39	35	32	31	26	23	19	17	13

EXPANDED PERFORMANCE DATA

MODEL: GSH130191A* / AWB24-XX / AWUF18XX1A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	21.1	20.0	18.8	17.6	16.8	16.3	15.1	13.9	10.7	9.9	9.1	8.6	8.3	7.4	6.6	5.7	4.9	4.0
Delta T	32.6	30.9	29.0	27.1	25.9	25.1	23.3	21.5	16.5	15.3	14.1	13.3	12.8	11.5	10.2	8.9	7.6	6.2
KW	1.66	1.63	1.60	1.57	1.55	1.54	1.51	1.48	1.51	1.47	1.44	1.42	1.41	1.38	1.35	1.32	1.28	1.25
AMPS	6.3	5.9	5.5	5.2	5.1	5.0	4.7	4.5	4.3	4.2	4.0	3.9	3.9	3.7	3.5	3.3	3.1	2.8
COP	3.73	3.59	3.45	3.29	3.17	3.10	2.94	2.76	2.08	1.96	1.85	1.77	1.72	1.58	1.43	1.28	1.12	0.94
EER	12.7	12.3	11.8	11.2	10.8	10.6	10.0	9.4	7.1	6.7	6.3	6.0	5.9	5.4	4.9	4.4	3.8	3.2
HI PR	186	178	171	164	160	157	151	145	139	132	127	124	122	117	113	108	104	101
LO PR	84	78	73	67	64	61	56	50	45	40	36	33	32	27	23	20	17	13

EXPANDED PERFORMANCE DATA

MODEL: GSH130241A* / ARUF32-00*-1* / ARUF18241A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	27.7	26.2	24.6	23.0	22.0	21.3	19.8	18.3	15.0	13.8	12.7	12.0	11.6	10.4	9.2	8.0	6.8	5.6
Delta T	31.2	29.6	27.8	26.0	24.8	24.1	22.4	20.6	16.9	15.6	14.3	13.6	13.0	11.7	10.4	9.1	7.7	6.3
KW	2.09	2.05	2.01	1.97	1.95	1.93	1.89	1.85	1.76	1.73	1.69	1.66	1.65	1.61	1.57	1.53	1.49	1.46
AMPS	9.6	8.9	8.3	7.8	7.6	7.4	7.0	6.6	6.4	6.1	5.8	5.7	5.6	5.3	4.9	4.7	4.3	3.9
COP	3.87	3.73	3.58	3.42	3.30	3.23	3.06	2.89	2.48	2.34	2.20	2.11	2.05	1.89	1.71	1.53	1.34	1.13
EER	13.2	12.8	12.2	11.7	11.3	11.0	10.5	9.9	8.5	8.0	7.5	7.2	7.0	6.4	5.9	5.2	4.6	3.9
HI PR	261	250	240	230	224	220	212	203	195	186	178	174	171	164	158	152	146	141
LO PR	80	74	70	64	61	58	54	48	43	38	34	31	30	26	22	19	16	13

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

High pressure is measured at the suction service valve (the larger valve).

AMPS = Outdoor unit amps (comp.+fan)

Low pressure is measured at the gauge port connection.

KW = Total system power

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

HEATING PERFORMANCE DATA

GSH13

EXPANDED PERFORMANCE DATA

MODEL: GSH130241B* / AR*F182416**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	27.7	26.2	24.6	23.0	22.0	21.3	19.8	18.3	15.0	13.8	12.7	12.0	11.6	10.4	9.2	8.0	6.8	5.6
Delta T	30.1	28.5	26.8	25.1	24.0	23.2	21.6	19.9	16.3	15.0	13.8	13.1	12.6	11.3	10.0	8.7	7.5	6.1
KW	1.99	1.95	1.91	1.87	1.85	1.84	1.80	1.76	1.70	1.66	1.62	1.60	1.59	1.55	1.51	1.48	1.44	1.40
AMPS	9.0	8.3	7.8	7.3	7.1	6.9	6.5	6.2	5.9	5.7	5.4	5.3	5.2	4.9	4.6	4.3	4.0	3.6
COP	4.07	3.93	3.77	3.60	3.47	3.40	3.22	3.03	2.58	2.44	2.29	2.19	2.13	1.96	1.78	1.59	1.39	1.17
EER	13.9	13.4	12.9	12.3	11.9	11.6	11.0	10.4	8.8	8.3	7.8	7.5	7.3	6.7	6.1	5.4	4.8	4.0
HI PR	238	228	220	210	205	201	193	186	178	170	163	159	156	150	145	139	134	129
LO PR	80	74	69	63	60	58	53	47	43	38	33	31	30	25	22	18	16	13

EXPANDED PERFORMANCE DATA

MODEL: GSH130251A* / AWB36-XX / AWUF36XX1A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	28.4	26.9	25.3	23.7	22.6	21.9	20.3	18.8	17.1	15.7	14.5	13.7	13.2	11.8	10.5	9.1	7.8	6.4
Delta T	32.1	30.4	28.6	26.7	25.5	24.7	23.0	21.2	19.3	17.8	16.4	15.5	14.9	13.4	11.8	10.3	8.8	7.2
KW	2.31	2.27	2.23	2.18	2.16	2.14	2.10	2.05	1.90	1.86	1.82	1.80	1.78	1.74	1.70	1.66	1.62	1.58
AMPS	11.1	10.3	9.7	9.1	8.8	8.7	8.2	7.8	7.5	7.2	6.9	6.8	6.7	6.4	6.0	5.7	5.3	4.9
COP	3.59	3.47	3.33	3.17	3.07	3.00	2.84	2.67	2.62	2.48	2.33	2.23	2.17	1.99	1.81	1.61	1.41	1.19
EER	12.3	11.8	11.4	10.8	10.5	10.2	9.7	9.1	9.0	8.5	8.0	7.6	7.4	6.8	6.2	5.5	4.8	4.0
HI PR	178	170	164	157	153	150	144	138	133	127	122	119	117	112	108	103	100	96
LO PR	76	71	66	61	58	55	51	45	41	37	32	30	29	24	21	18	15	12

EXPANDED PERFORMANCE DATA

MODEL: GSH130301A* / ARUF42-00*-01* / ARUF30301A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	33.7	31.9	30.0	28.1	26.8	26.0	24.1	22.2	17.4	16.1	14.8	14.0	13.5	12.1	10.7	9.4	8.0	6.5
Delta T	29.7	28.1	26.5	24.7	23.6	22.9	21.3	19.6	15.4	14.2	13.1	12.3	11.9	10.7	9.5	8.2	7.0	5.8
KW	2.41	2.36	2.32	2.27	2.24	2.22	2.18	2.13	2.08	2.04	1.99	1.96	1.95	1.90	1.85	1.81	1.76	1.72
AMPS	11.1	10.3	9.6	9.1	8.7	8.6	8.1	7.7	7.3	7.0	6.7	6.5	6.4	6.1	5.7	5.3	4.9	4.4
COP	4.09	3.95	3.79	3.62	3.50	3.42	3.24	3.05	2.45	2.31	2.18	2.09	2.03	1.86	1.69	1.51	1.32	1.11
EER	14.0	13.5	13.0	12.4	11.9	11.7	11.1	10.4	8.4	7.9	7.4	7.1	6.9	6.4	5.8	5.2	4.5	3.8
HI PR	234	224	216	206	202	198	190	182	175	167	160	156	154	148	142	136	131	127
LO PR	76	70	66	61	57	55	51	45	41	36	32	30	29	24	21	18	15	12

EXPANDED PERFORMANCE DATA

MODEL: GSH130301BA / AR*F303016**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	33.2	31.4	29.6	27.6	26.4	25.6	23.8	21.9	17.4	16.1	14.8	14.0	13.5	12.1	10.7	9.4	8.0	6.5
Delta T	29.3	27.7	26.1	24.4	23.3	22.6	21.0	19.3	15.4	14.2	13.1	12.3	11.9	10.7	9.5	8.2	7.0	5.8
KW	2.41	2.36	2.32	2.27	2.24	2.22	2.18	2.13	2.02	1.98	1.94	1.91	1.89	1.85	1.80	1.76	1.72	1.67
AMPS	11.1	10.3	9.6	9.1	8.7	8.6	8.1	7.6	7.3	7.0	6.6	6.5	6.4	6.1	5.6	5.3	4.9	4.4
COP	4.03	3.89	3.74	3.56	3.44	3.37	3.19	3.01	2.52	2.38	2.24	2.15	2.08	1.92	1.74	1.55	1.36	1.14
EER	13.8	13.3	12.8	12.2	11.8	11.5	10.9	10.3	8.6	8.1	7.7	7.3	7.1	6.5	5.9	5.3	4.6	3.9
HI PR	234	224	216	206	202	198	190	182	175	167	160	156	154	148	142	136	131	127
LO PR	76	70	66	61	57	55	51	45	41	36	32	30	29	24	21	18	15	12

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

High pressure is measured at the suction service valve (the larger valve).

Low pressure is measured at the gauge port connection.

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)

KW = Total system power

HEATING PERFORMANCE DATA

GSH13

EXPANDED PERFORMANCE DATA

MODEL: GSH130311A* / AWB36-XX / AWUF36XX1A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	32.2	30.5	28.7	26.8	25.6	24.8	23.0	21.2	23.7	21.8	20.1	19.0	18.3	16.4	14.5	12.7	10.8	8.9
Delta T	28.4	26.9	25.3	23.6	22.6	21.9	20.3	18.7	20.9	19.3	17.7	16.7	16.1	14.5	12.8	11.2	9.5	7.8
KW	2.55	2.49	2.44	2.39	2.36	2.33	2.28	2.23	2.00	1.95	1.90	1.87	1.86	1.81	1.76	1.71	1.66	1.62
AMPS	12.6	11.7	11.0	10.3	10.0	9.8	9.3	8.8	8.5	8.1	7.7	7.6	7.5	7.1	6.7	6.3	5.9	5.3
COP	3.70	3.58	3.44	3.29	3.18	3.11	2.96	2.79	3.47	3.28	3.09	2.97	2.89	2.66	2.42	2.17	1.90	1.61
EER	12.6	12.2	11.8	11.2	10.9	10.6	10.1	9.5	11.8	11.2	10.6	10.1	9.9	9.1	8.3	7.4	6.5	5.5
HI PR	254	243	234	224	218	214	206	198	189	181	174	170	166	160	154	148	142	137
LO PR	76	71	66	61	57	55	51	45	41	36	32	30	29	24	21	18	15	12

EXPANDED PERFORMANCE DATA

MODEL: GSH130361** / ARUF49-00*-1* / ARUF36421A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	40.2	38.1	35.8	33.5	32.0	31.0	28.8	26.6	19.9	18.4	16.9	16.0	15.4	13.8	12.3	10.7	9.1	7.5
Delta T	29.2	27.7	26.0	24.3	23.2	22.5	20.9	19.3	14.5	13.4	12.3	11.6	11.2	10.0	8.9	7.8	6.6	5.4
KW	2.90	2.84	2.79	2.73	2.70	2.68	2.63	2.58	2.42	2.37	2.32	2.29	2.27	2.22	2.17	2.12	2.07	2.02
AMPS	13.0	12.1	11.3	10.7	10.3	10.1	9.5	9.1	8.7	8.3	7.9	7.7	7.6	7.3	6.8	6.4	5.9	5.4
COP	4.07	3.92	3.76	3.59	3.46	3.39	3.21	3.02	2.41	2.27	2.14	2.05	1.99	1.82	1.65	1.48	1.29	1.08
EER	13.9	13.4	12.9	12.3	11.8	11.6	11.0	10.3	8.2	7.8	7.3	7.0	6.8	6.2	5.7	5.0	4.4	3.7
HI PR	230	221	212	203	198	194	187	179	172	164	158	154	151	145	140	134	129	125
LO PR	80	74	70	64	60	58	54	48	43	38	34	31	30	26	22	19	16	13

EXPANDED PERFORMANCE DATA

MODEL: GSH130421A* / ARUF49-00*-1* / ARUF36421A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	49.0	46.4	43.7	40.8	39.0	37.8	35.1	32.4	28.7	26.5	24.4	23.0	22.1	19.9	17.6	15.4	13.1	10.7
Delta T	30.3	28.6	27.0	25.2	24.1	23.3	21.7	20.0	17.7	16.3	15.0	14.2	13.7	12.3	10.9	9.5	8.1	6.6
KW	3.59	3.52	3.46	3.39	3.35	3.32	3.26	3.19	3.08	3.01	2.95	2.91	2.88	2.82	2.75	2.69	2.62	2.56
AMPS	16.7	15.5	14.5	13.6	13.1	12.9	12.1	11.5	11.0	10.5	10.0	9.8	9.7	9.2	8.6	8.1	7.4	6.7
COP	4.00	3.86	3.70	3.53	3.41	3.33	3.15	2.97	2.72	2.57	2.42	2.31	2.25	2.06	1.87	1.67	1.46	1.23
EER	13.7	13.2	12.6	12.1	11.6	11.4	10.8	10.1	9.3	8.8	8.3	7.9	7.7	7.1	6.4	5.7	5.0	4.2
HI PR	237	227	218	209	204	200	192	184	177	169	162	158	155	149	144	138	133	128
LO PR	75	70	65	60	57	54	50	45	40	36	32	29	28	24	21	17	15	12

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

High pressure is measured at the suction service valve (the larger valve).

Low pressure is measured at the gauge port connection.

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)

KW = Total system power

HEATING PERFORMANCE DATA

GSH13

EXPANDED PERFORMANCE DATA

MODEL: GSH130481A* / ARUF61-00*-1* / ARUF48601A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	54.1	51.2	48.2	45.0	43.0	41.7	38.7	35.7	33.6	31.1	28.6	27.0	26.0	23.3	20.7	18.0	15.4	12.6
Delta T	31.3	29.6	27.9	26.1	24.9	24.1	22.4	20.7	19.5	18.0	16.5	15.6	15.0	13.5	12.0	10.4	8.9	7.3
KW	3.84	3.77	3.70	3.63	3.59	3.56	3.49	3.42	3.34	3.27	3.20	3.16	3.13	3.06	3.00	2.93	2.86	2.79
AMPS	18.1	16.8	15.7	14.8	14.3	14.0	13.2	12.5	12.0	11.5	10.9	10.7	10.5	10.0	9.3	8.8	8.1	7.3
COP	4.12	3.98	3.81	3.63	3.51	3.43	3.24	3.05	2.95	2.78	2.62	2.50	2.43	2.23	2.02	1.80	1.58	1.32
EER	14.1	13.6	13.0	12.4	12.0	11.7	11.1	10.4	10.1	9.5	8.9	8.5	8.3	7.6	6.9	6.2	5.4	4.5
HI PR	224	215	207	198	193	189	182	175	167	160	154	150	147	142	136	131	126	121
LO PR	74	69	64	59	56	54	49	44	40	35	31	29	28	24	20	17	15	12

EXPANDED PERFORMANCE DATA

MODEL: GSH130601A* / ARUF61-00*-1* / ARUF48601A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	69.8	66.0	62.2	58.1	55.5	53.8	50.0	46.1	43.6	40.3	37.1	35.0	33.7	30.2	26.8	23.4	20.0	16.3
Delta T	35.9	34.0	32.0	29.9	28.5	27.7	25.7	23.7	22.4	20.7	19.1	18.0	17.3	15.6	13.8	12.0	10.3	8.4
KW	5.04	4.95	4.85	4.75	4.70	4.66	4.57	4.47	4.30	4.21	4.11	4.06	4.02	3.93	3.84	3.75	3.65	3.56
AMPS	22.7	21.0	19.6	18.4	17.8	17.4	16.4	15.6	14.9	14.2	13.5	13.2	13.0	12.4	11.5	10.8	10.0	9.0
COP	4.05	3.91	3.75	3.58	3.46	3.38	3.20	3.02	2.97	2.80	2.64	2.52	2.45	2.25	2.05	1.83	1.60	1.34
EER	13.8	13.4	12.8	12.2	11.8	11.5	10.9	10.3	10.1	9.6	9.0	8.6	8.4	7.7	7.0	6.2	5.5	4.6
HI PR	255	244	235	225	219	215	207	198	190	182	174	170	167	161	155	148	143	138
LO PR	75	70	65	60	57	54	50	45	40	36	32	29	28	24	21	17	15	12

EXPANDED PERFORMANCE DATA

MODEL: GSH130363A* / ARUF49-00*-1* / ARUF36421A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	40.2	38.1	35.8	33.5	32.0	31.0	28.8	26.6	19.9	18.4	16.9	16.0	15.4	13.8	12.3	10.7	9.1	7.5
Delta T	29.2	27.7	26.0	24.3	23.2	22.5	20.9	19.3	14.5	13.4	12.3	11.6	11.2	10.0	8.9	7.8	6.6	5.4
KW	2.80	2.75	2.70	2.64	2.61	2.59	2.54	2.49	2.47	2.41	2.36	2.33	2.31	2.25	2.20	2.15	2.09	2.04
AMPS	11.0	10.2	9.6	9.1	8.7	8.6	8.1	7.7	7.4	7.1	6.8	6.6	6.5	6.2	5.8	5.5	5.1	4.7
COP	4.20	4.05	3.89	3.71	3.58	3.50	3.32	3.13	2.36	2.23	2.10	2.01	1.95	1.79	1.63	1.46	1.27	1.07
EER	14.4	13.9	13.3	12.7	12.2	12.0	11.3	10.7	8.1	7.6	7.2	6.9	6.7	6.1	5.6	5.0	4.4	3.7
HI PR	219	210	202	193	189	185	178	171	164	156	150	146	144	138	133	128	123	119
LO PR	78	72	67	62	58	56	52	46	42	37	33	30	29	25	21	18	16	12

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

High pressure is measured at the suction service valve (the larger valve).

Low pressure is measured at the gauge port connection.

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)

KW = Total system power

HEATING PERFORMANCE DATA

GSH13

EXPANDED PERFORMANCE DATA

MODEL: GSH130483A* / ARUF61-00*-1* / ARUF48601A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	54.1	51.2	48.2	45.0	43.0	41.7	38.7	35.7	33.6	31.1	28.6	27.0	26.0	23.3	20.7	18.0	15.4	12.6
Delta T	31.3	29.6	27.9	26.1	24.9	24.1	22.4	20.7	19.5	18.0	16.5	15.6	15.0	13.5	12.0	10.4	8.9	7.3
KW	3.71	3.64	3.57	3.50	3.45	3.42	3.35	3.28	3.34	3.26	3.19	3.14	3.11	3.04	2.96	2.89	2.81	2.74
AMPS	14.6	13.6	12.7	12.0	11.6	11.3	10.7	10.2	9.8	9.3	8.9	8.7	8.6	8.2	7.7	7.2	6.7	6.1
COP	4.26	4.11	3.95	3.77	3.64	3.56	3.38	3.18	2.95	2.79	2.63	2.51	2.44	2.25	2.04	1.83	1.60	1.35
EER	14.6	14.1	13.5	12.9	12.4	12.2	11.5	10.9	10.1	9.5	9.0	8.6	8.4	7.7	7.0	6.2	5.5	4.6
HI PR	224	215	206	197	193	189	182	174	167	159	153	149	147	141	136	130	126	121
LO PR	73	68	64	58	55	53	49	44	39	35	31	29	28	23	20	17	15	12

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature.

High pressure is measured at the suction service valve (the larger valve).

Low pressure is measured at the gauge port connection.

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)

KW = Total system power

EXPANDED PERFORMANCE DATA

MODEL: GSH13048-4A* / ARUF61-00*-1* / ARUF48601A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	54.1	51.2	48.2	45.0	43.0	41.7	38.7	35.7	43.6	40.3	37.1	35.0	33.7	30.2	26.8	23.4	20.0	16.3
Delta T	31.3	29.6	27.9	26.1	24.9	24.1	22.4	20.7	25.2	23.3	21.4	20.3	19.5	17.5	15.5	13.5	11.5	9.5
KW	3.87	3.78	3.70	3.61	3.56	3.52	3.44	3.36	3.29	3.20	3.12	3.07	3.03	2.95	2.86	2.78	2.69	2.61
AMPS	3.7	3.5	3.3	3.1	3.0	3.0	2.8	2.7	2.6	2.5	2.4	2.3	2.3	2.2	2.1	2.0	1.9	1.7
COP	4.09	3.96	3.81	3.65	3.53	3.46	3.29	3.11	3.88	3.68	3.48	3.34	3.25	3.00	2.74	2.46	2.17	1.84
EER	14.0	13.5	13.0	12.5	12.1	11.8	11.2	10.6	13.3	12.6	11.9	11.4	11.1	10.3	9.4	8.4	7.4	6.3
HI PR	180	172	166	158	155	152	146	140	134	128	123	120	118	113	109	105	101	97
LO PR	74	68	64	59	56	53	49	44	39	35	31	29	28	23	20	17	15	12

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature.

High pressure is measured at the suction service valve (the larger valve).

Low pressure is measured at the gauge port connection.

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)

KW = Total system power

HEATING PERFORMANCE DATA

GSH13

EXPANDED PERFORMANCE DATA

MODEL: GSH13060-4A* / ARUF61-00*-1* / ARUF48601A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	69.8	66.0	62.2	58.1	55.5	53.8	50.0	46.1	43.6	40.3	37.1	35.0	33.7	30.2	26.8	23.4	20.0	16.3
Delta T	35.9	34.0	32.0	29.9	28.5	27.7	25.7	23.7	22.4	20.7	19.1	18.0	17.3	15.6	13.8	12.0	10.3	8.4
KW	5.12	5.02	4.92	4.83	4.77	4.73	4.63	4.54	4.66	4.56	4.45	4.39	4.35	4.25	4.15	4.05	3.94	3.84
AMPS	3.7	3.6	3.5	3.5	3.5	3.4	3.4	3.4	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.1	3.1
COP	3.99	3.85	3.70	3.52	3.41	3.33	3.15	2.97	2.74	2.59	2.43	2.33	2.27	2.08	1.89	1.69	1.48	1.25
EER	13.6	13.2	12.6	12.0	11.6	11.4	10.8	10.2	9.4	8.8	8.3	8.0	7.7	7.1	6.5	5.8	5.1	4.3
HI PR	197	189	181	173	169	166	160	153	147	140	135	131	129	124	119	115	110	107
LO PR	72	67	63	58	54	52	48	43	39	35	30	28	27	23	20	17	15	11

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature.

High pressure is measured at the suction service valve (the larger valve).

AMPS = Outdoor unit amps (comp.+fan)

Low pressure is measured at the gauge port connection.

KW = Total system power

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

PERFORMANCE TEST

All data based upon listed indoor dry bulb temperature. .00 inches external static pressure on coil of outdoor section. Indoor air cubic feet per minute (CFM) as listed in the Performance Data Sheets:

If conditions vary from this, results will change as follows:

1. As indoor dry bulb temperatures increase, a slight increase will occur in indoor air temperature drop (Delta T). Low and high side pressures and power will not change.
2. As indoor CFM decreases, a slight increase will occur in indoor temperature drop (Delta T). A slight decrease will occur in low and high side pressures and power.

A properly operating unit should be within plus or minus **2 degrees** of the subcooling value shown in the Heat Pump Specifications.

A properly operating unit should be within plus or minus **3 degrees** of the typical (Delta T) value shown.

A properly operating unit should be within plus or minus **7 PSIG** of the **HI PR** shown.

A properly operating unit should be within plus or minus **3 PSIG** of the **LO PR** shown.

A properly operating unit should be within plus or minus **3 Amps** of the typical value shown.

HEATING PERFORMANCE DATA

VSH13

EXPANDED PERFORMANCE DATA

MODEL: VSH130181A* / AR*F182416B*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	21.1	20.0	18.8	17.6	16.8	16.3	15.1	13.9	10.7	9.9	9.1	8.6	8.3	7.4	6.6	5.7	4.9	4.0
Delta T	32.6	30.9	29.0	27.1	25.9	25.1	23.3	21.5	16.5	15.3	14.1	13.3	12.8	11.5	10.2	8.9	7.6	6.2
KW	1.57	1.54	1.51	1.48	1.46	1.45	1.42	1.39	1.30	1.27	1.24	1.23	1.22	1.19	1.16	1.13	1.10	1.08
AMPS	7.3	6.8	6.4	6.0	5.8	5.7	5.4	5.1	4.9	4.7	4.4	4.3	4.3	4.1	3.8	3.6	3.3	3.0
COP	3.94	3.80	3.65	3.48	3.36	3.29	3.12	2.94	2.41	2.28	2.14	2.05	1.99	1.83	1.66	1.49	1.30	1.09
EER	13.5	13.0	12.5	11.9	11.5	11.2	10.6	10.0	8.2	7.8	7.3	7.0	6.8	6.3	5.7	5.1	4.4	3.7
HI PR	241	231	222	213	208	204	196	188	180	172	165	161	158	152	146	140	135	131
LO PR	83	77	72	66	62	60	55	49	44	40	35	32	31	26	23	19	17	13

EXPANDED PERFORMANCE DATA

MODEL: VSH130191A* / AWUF18XX16A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	21.1	20.0	18.8	17.6	16.8	16.3	15.1	13.9	10.7	9.9	9.1	8.6	8.3	7.4	6.6	5.7	4.9	4.0
Delta T	32.6	30.9	29.0	27.1	25.9	25.1	23.3	21.5	16.5	15.3	14.1	13.3	12.8	11.5	10.2	8.9	7.6	6.2
KW	1.66	1.63	1.60	1.57	1.55	1.54	1.51	1.48	1.51	1.47	1.44	1.42	1.41	1.38	1.35	1.32	1.28	1.25
AMPS	6.3	5.9	5.5	5.2	5.1	5.0	4.7	4.5	4.3	4.2	4.0	3.9	3.9	3.7	3.5	3.3	3.1	2.8
COP	3.73	3.59	3.45	3.29	3.17	3.10	2.94	2.76	2.08	1.96	1.85	1.77	1.72	1.58	1.43	1.28	1.12	0.94
EER	12.7	12.3	11.8	11.2	10.8	10.6	10.0	9.4	7.1	6.7	6.3	6.0	5.9	5.4	4.9	4.4	3.8	3.2
HI PR	186	178	171	164	160	157	151	145	139	132	127	124	122	117	113	108	104	101
LO PR	84	78	73	67	64	61	56	50	45	40	36	33	32	27	23	20	17	13

EXPANDED PERFORMANCE DATA

MODEL: VSH130241A* / AR*F182416B*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	27.7	26.2	24.6	23.0	22.0	21.3	19.8	18.3	15.0	13.8	12.7	12.0	11.6	10.4	9.2	8.0	6.8	5.6
Delta T	31.2	29.6	27.8	26.0	24.8	24.1	22.4	20.6	16.9	15.6	14.3	13.6	13.0	11.7	10.4	9.1	7.7	6.3
KW	2.09	2.05	2.01	1.97	1.95	1.93	1.89	1.85	1.76	1.73	1.69	1.66	1.65	1.61	1.57	1.53	1.49	1.46
AMPS	9.6	8.9	8.3	7.8	7.6	7.4	7.0	6.6	6.4	6.1	5.8	5.7	5.6	5.3	4.9	4.7	4.3	3.9
COP	3.87	3.73	3.58	3.42	3.30	3.23	3.06	2.89	2.48	2.34	2.20	2.11	2.05	1.89	1.71	1.53	1.34	1.13
EER	13.2	12.8	12.2	11.7	11.3	11.0	10.5	9.9	8.5	8.0	7.5	7.2	7.0	6.4	5.9	5.2	4.6	3.9
HI PR	261	250	240	230	224	220	212	203	195	186	178	174	171	164	158	152	146	141
LO PR	80	74	70	64	61	58	54	48	43	38	34	31	30	26	22	19	16	13

EXPANDED PERFORMANCE DATA

MODEL: VSH130251A* / AWUF24XX16A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	28.4	26.9	25.3	23.7	22.6	21.9	20.3	18.8	17.1	15.7	14.5	13.7	13.2	11.8	10.5	9.1	7.8	6.4
Delta T	32.1	30.4	28.6	26.7	25.5	24.7	23.0	21.2	19.3	17.8	16.4	15.5	14.9	13.4	11.8	10.3	8.8	7.2
KW	2.31	2.27	2.23	2.18	2.16	2.14	2.10	2.05	1.90	1.86	1.82	1.80	1.78	1.74	1.70	1.66	1.62	1.58
AMPS	11.1	10.3	9.7	9.1	8.8	8.7	8.2	7.8	7.5	7.2	6.9	6.8	6.7	6.4	6.0	5.7	5.3	4.9
COP	3.59	3.47	3.33	3.17	3.07	3.00	2.84	2.67	2.62	2.48	2.33	2.23	2.17	1.99	1.81	1.61	1.41	1.19
EER	12.3	11.8	11.4	10.8	10.5	10.2	9.7	9.1	9.0	8.5	8.0	7.6	7.4	6.8	6.2	5.5	4.8	4.0
HI PR	178	170	164	157	153	150	144	138	133	127	122	119	117	112	108	103	100	96
LO PR	76	71	66	61	58	55	51	45	41	37	32	30	29	24	21	18	15	12

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

High pressure is measured at the suction service valve (the larger valve).

AMPS = Outdoor unit amps (comp.+fan)

Low pressure is measured at the gauge port connection.

KW = Total system power

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

HEATING PERFORMANCE DATA

VSH13

EXPANDED PERFORMANCE DATA

MODEL: VSH130301A* / AR*F303016B*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	33.7	31.9	30.0	28.1	26.8	26.0	24.1	22.2	17.4	16.1	14.8	14.0	13.5	12.1	10.7	9.4	8.0	6.5
Delta T	29.7	28.1	26.5	24.7	23.6	22.9	21.3	19.6	15.4	14.2	13.1	12.3	11.9	10.7	9.5	8.2	7.0	5.8
KW	2.41	2.36	2.32	2.27	2.24	2.22	2.18	2.13	2.08	2.04	1.99	1.96	1.95	1.90	1.85	1.81	1.76	1.72
AMPS	11.1	10.3	9.6	9.1	8.7	8.6	8.1	7.7	7.3	7.0	6.7	6.5	6.4	6.1	5.7	5.3	4.9	4.4
COP	4.09	3.95	3.79	3.62	3.50	3.42	3.24	3.05	2.45	2.31	2.18	2.09	2.03	1.86	1.69	1.51	1.32	1.11
EER	14.0	13.5	13.0	12.4	11.9	11.7	11.1	10.4	8.4	7.9	7.4	7.1	6.9	6.4	5.8	5.2	4.5	3.8
HI PR	234	224	216	206	202	198	190	182	175	167	160	156	154	148	142	136	131	127
LO PR	76	70	66	61	57	55	51	45	41	36	32	30	29	24	21	18	15	12

EXPANDED PERFORMANCE DATA

MODEL: VSH130311A* / AWUF36XX1A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	32.2	30.5	28.7	26.8	25.6	24.8	23.0	21.2	23.7	21.8	20.1	19.0	18.3	16.4	14.5	12.7	10.8	8.9
Delta T	28.4	26.9	25.3	23.6	22.6	21.9	20.3	18.7	20.9	19.3	17.7	16.7	16.1	14.5	12.8	11.2	9.5	7.8
KW	2.55	2.49	2.44	2.39	2.36	2.33	2.28	2.23	2.00	1.95	1.90	1.87	1.86	1.81	1.76	1.71	1.66	1.62
AMPS	12.6	11.7	11.0	10.3	10.0	9.8	9.3	8.8	8.5	8.1	7.7	7.6	7.5	7.1	6.7	6.3	5.9	5.3
COP	3.70	3.58	3.44	3.29	3.18	3.11	2.96	2.79	3.47	3.28	3.09	2.97	2.89	2.66	2.42	2.17	1.90	1.61
EER	12.6	12.2	11.8	11.2	10.9	10.6	10.1	9.5	11.8	11.2	10.6	10.1	9.9	9.1	8.3	7.4	6.5	5.5
HI PR	254	243	234	224	218	214	206	198	189	181	174	170	166	160	154	148	142	137
LO PR	76	71	66	61	57	55	51	45	41	36	32	30	29	24	21	18	15	12

EXPANDED PERFORMANCE DATA

MODEL: VSH130361A* / AR*F364216B*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	40.2	38.1	35.8	33.5	32.0	31.0	28.8	26.6	19.9	18.4	16.9	16.0	15.4	13.8	12.3	10.7	9.1	7.5
Delta T	29.2	27.7	26.0	24.3	23.2	22.5	20.9	19.3	14.5	13.4	12.3	11.6	11.2	10.0	8.9	7.8	6.6	5.4
KW	2.90	2.84	2.79	2.73	2.70	2.68	2.63	2.58	2.42	2.37	2.32	2.29	2.27	2.22	2.17	2.12	2.07	2.02
AMPS	13.0	12.1	11.3	10.7	10.3	10.1	9.5	9.1	8.7	8.3	7.9	7.7	7.6	7.3	6.8	6.4	5.9	5.4
COP	4.07	3.92	3.76	3.59	3.46	3.39	3.21	3.02	2.41	2.27	2.14	2.05	1.99	1.82	1.65	1.48	1.29	1.08
EER	13.9	13.4	12.9	12.3	11.8	11.6	11.0	10.3	8.2	7.8	7.3	7.0	6.8	6.2	5.7	5.0	4.4	3.7
HI PR	230	221	212	203	198	194	187	179	172	164	158	154	151	145	140	134	129	125
LO PR	80	74	70	64	60	58	54	48	43	38	34	31	30	26	22	19	16	13

EXPANDED PERFORMANCE DATA

MODEL: VSH130421A* / AR*F364216B*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	49.0	46.4	43.7	40.8	39.0	37.8	35.1	32.4	28.7	26.5	24.4	23.0	22.1	19.9	17.6	15.4	13.1	10.7
Delta T	30.3	28.6	27.0	25.2	24.1	23.3	21.7	20.0	17.7	16.3	15.0	14.2	13.7	12.3	10.9	9.5	8.1	6.6
KW	3.59	3.52	3.46	3.39	3.35	3.32	3.26	3.19	3.08	3.01	2.95	2.91	2.88	2.82	2.75	2.69	2.62	2.56
AMPS	16.7	15.5	14.5	13.6	13.1	12.9	12.1	11.5	11.0	10.5	10.0	9.8	9.7	9.2	8.6	8.1	7.4	6.7
COP	4.00	3.86	3.70	3.53	3.41	3.33	3.15	2.97	2.72	2.57	2.42	2.31	2.25	2.06	1.87	1.67	1.46	1.23
EER	13.7	13.2	12.6	12.1	11.6	11.4	10.8	10.1	9.3	8.8	8.3	7.9	7.7	7.1	6.4	5.7	5.0	4.2
HI PR	237	227	218	209	204	200	192	184	177	169	162	158	155	149	144	138	133	128
LO PR	75	70	65	60	57	54	50	45	40	36	32	29	28	24	21	17	15	12

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

High pressure is measured at the suction service valve (the larger valve).

Low pressure is measured at the gauge port connection.

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)

KW = Total system power

HEATING PERFORMANCE DATA

VSH13

EXPANDED PERFORMANCE DATA

MODEL: VSH130481A* / AR*F486016B*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	54.1	51.2	48.2	45.0	43.0	41.7	38.7	35.7	33.6	31.1	28.6	27.0	26.0	23.3	20.7	18.0	15.4	12.6
Delta T	31.3	29.6	27.9	26.1	24.9	24.1	22.4	20.7	19.5	18.0	16.5	15.6	15.0	13.5	12.0	10.4	8.9	7.3
KW	3.84	3.77	3.70	3.63	3.59	3.56	3.49	3.42	3.34	3.27	3.20	3.16	3.13	3.06	3.00	2.93	2.86	2.79
AMPS	18.1	16.8	15.7	14.8	14.3	14.0	13.2	12.5	12.0	11.5	10.9	10.7	10.5	10.0	9.3	8.8	8.1	7.3
COP	4.12	3.98	3.81	3.63	3.51	3.43	3.24	3.05	2.95	2.78	2.62	2.50	2.43	2.23	2.02	1.80	1.58	1.32
EER	14.1	13.6	13.0	12.4	12.0	11.7	11.1	10.4	10.1	9.5	8.9	8.5	8.3	7.6	6.9	6.2	5.4	4.5
HI PR	224	215	207	198	193	189	182	175	167	160	154	150	147	142	136	131	126	121
LO PR	74	69	64	59	56	54	49	44	40	35	31	29	28	24	20	17	15	12

EXPANDED PERFORMANCE DATA

MODEL: VSH130601A* / AR*F486016B*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	69.8	66.0	62.2	58.1	55.5	53.8	50.0	46.1	43.6	40.3	37.1	35.0	33.7	30.2	26.8	23.4	20.0	16.3
Delta T	35.9	34.0	32.0	29.9	28.5	27.7	25.7	23.7	22.4	20.7	19.1	18.0	17.3	15.6	13.8	12.0	10.3	8.4
KW	5.04	4.95	4.85	4.75	4.70	4.66	4.57	4.47	4.30	4.21	4.11	4.06	4.02	3.93	3.84	3.75	3.65	3.56
AMPS	22.7	21.0	19.6	18.4	17.8	17.4	16.4	15.6	14.9	14.2	13.5	13.2	13.0	12.4	11.5	10.8	10.0	9.0
COP	4.05	3.91	3.75	3.58	3.46	3.38	3.20	3.02	2.97	2.80	2.64	2.52	2.45	2.25	2.05	1.83	1.60	1.34
EER	13.8	13.4	12.8	12.2	11.8	11.5	10.9	10.3	10.1	9.6	9.0	8.6	8.4	7.7	7.0	6.2	5.5	4.6
HI PR	255	244	235	225	219	215	207	198	190	182	174	170	167	161	155	148	143	138
LO PR	75	70	65	60	57	54	50	45	40	36	32	29	28	24	21	17	15	12

PERFORMANCE TEST

All data based upon listed indoor dry bulb temperature. .00 inches external static pressure on coil of outdoor section. Indoor air cubic feet per minute (CFM) as listed in the Performance Data Sheets:

If conditions vary from this, results will change as follows:

1. As indoor dry bulb temperatures increase, a slight increase will occur in indoor air temperature drop (Delta T). Low and high side pressures and power will not change.
2. As indoor CFM decreases, a slight increase will occur in indoor temperature drop (Delta T). A slight decrease will occur in low and high side pressures and power.

A properly operating unit should be within plus or minus **2 degrees** of the subcooling value shown in the Heat Pump Specifications.

A properly operating unit should be within plus or minus **3 degrees** of the typical (Delta T) value shown.

A properly operating unit should be within plus or minus **7 PSIG** of the **HI PR** shown.

A properly operating unit should be within plus or minus **3 PSIG** of the **LO PR** shown.

A properly operating unit should be within plus or minus **3 Amps** of the typical value shown.

WIRING DIAGRAMS

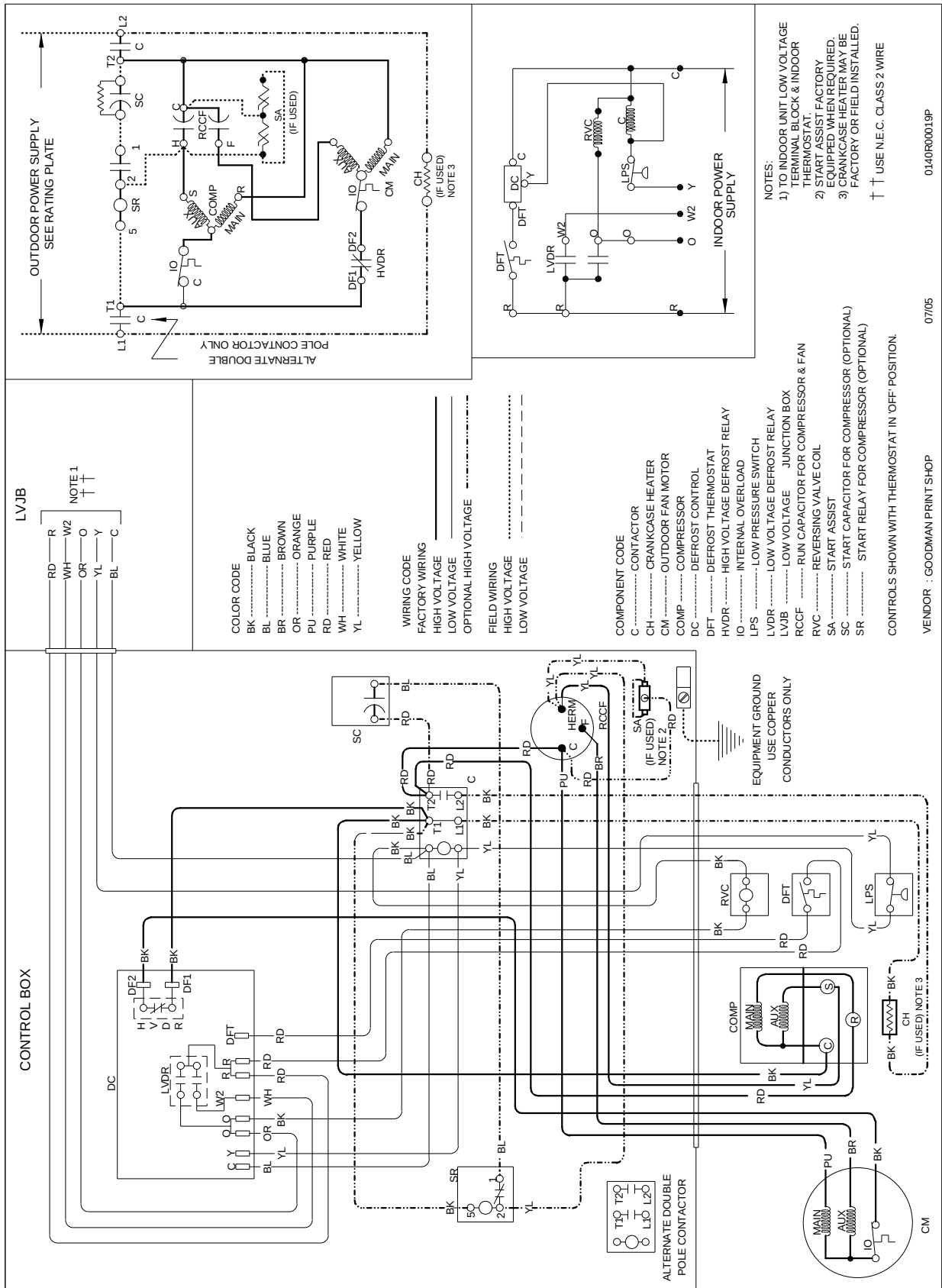
GSH/VSH130[18-60]1A*/1B*



WARNING

HIGH VOLTAGE!

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

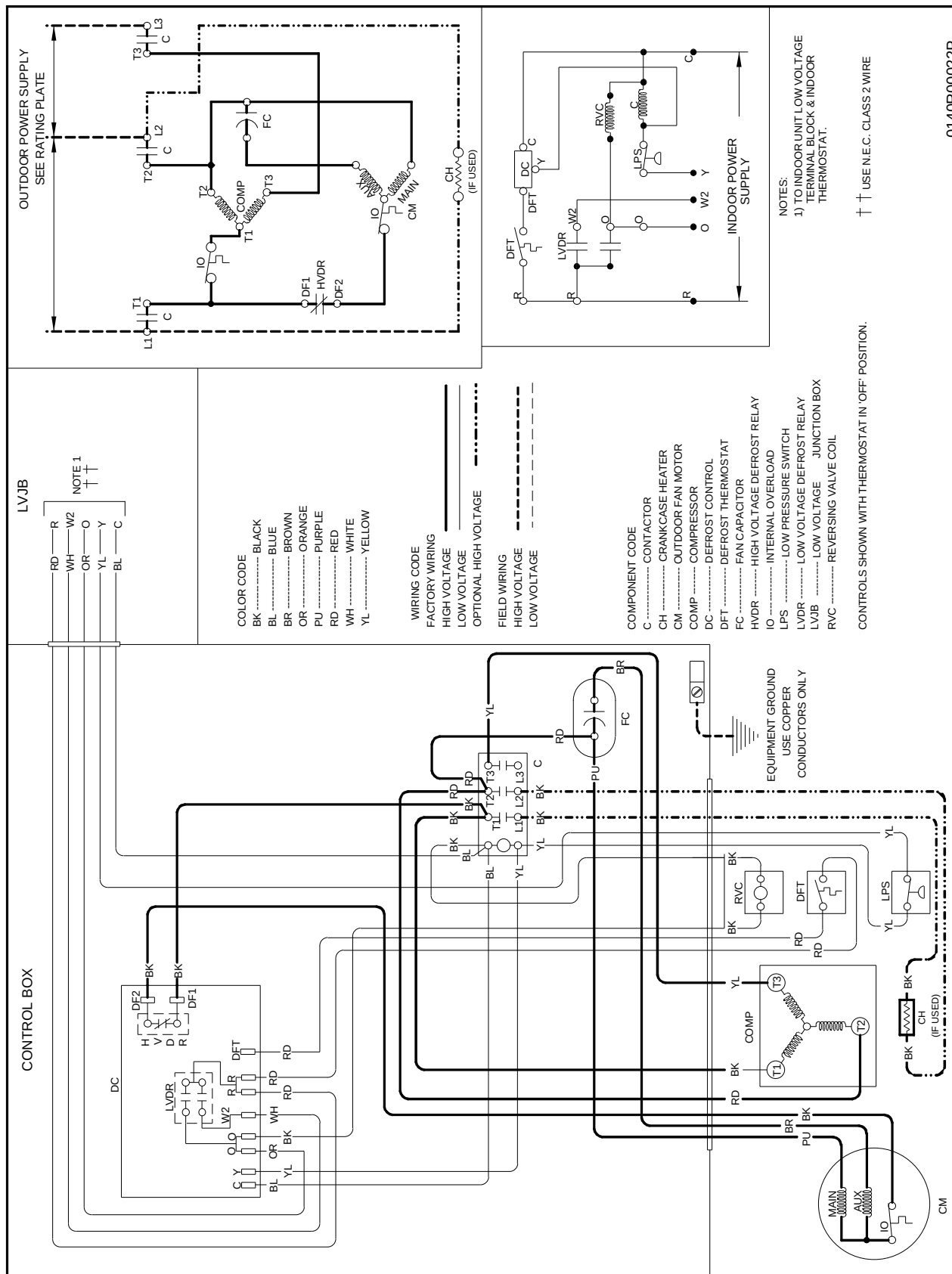
WIRING DIAGRAMS

GSH130[36-60]3A* & GSH130[48-60]4A*



WARNING

HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.