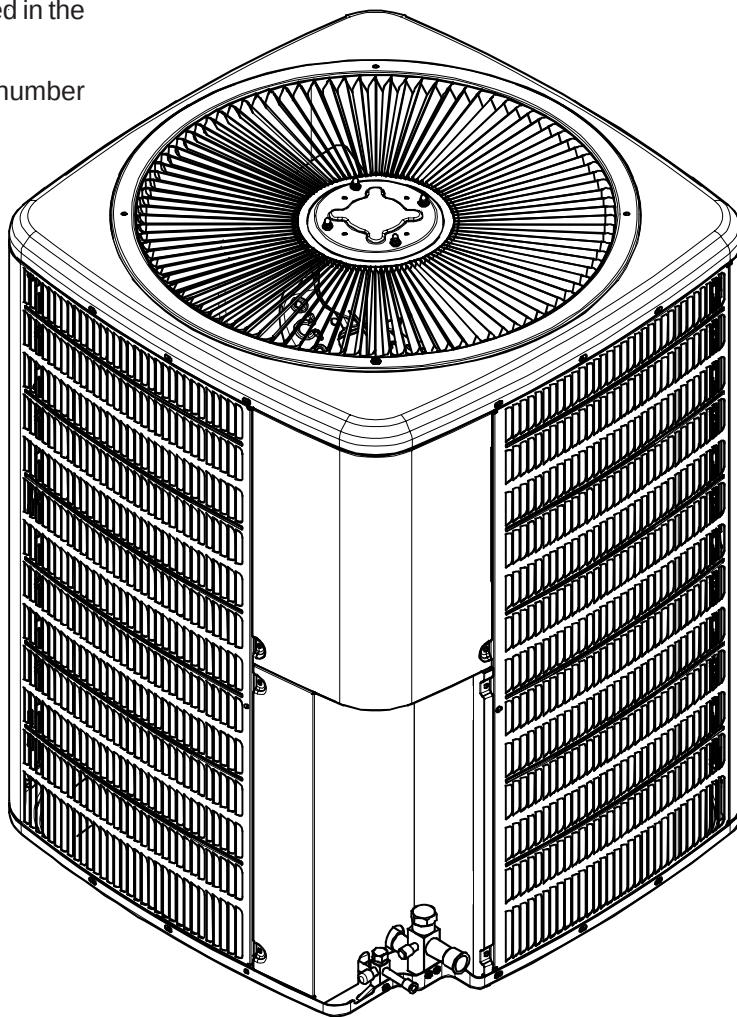


TECHNICAL INFORMATION MANUAL

GSC 10 SEER Condensing Units

Models listed
on page 3

- 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.



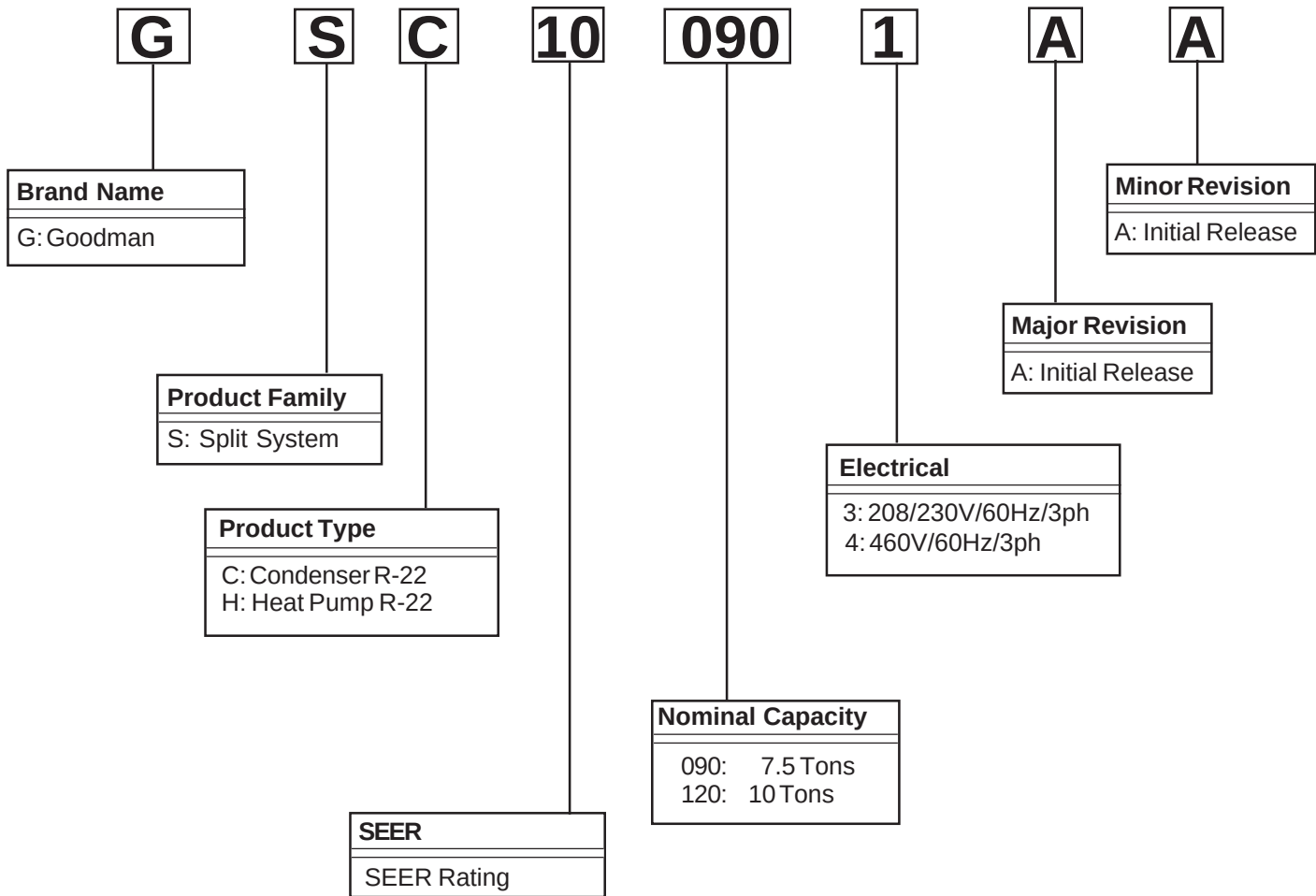
Goodman®

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.

RT6111008
April 2007

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

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 and Refrigeration Institute (ARI). Attempting to install or repair this unit without such background may result in product 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.

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.

GSC100903A*

GSC100904A*

GSC101203A*

GSC101204A*

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



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.



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.



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.

PRODUCT DESIGN

GSC 10 SEER models are available in 7 1/2 and 10 ton sizes. They are designed for 208/230 volt three phase applications and are also available in 460V.

The condenser air is pulled through the condenser coil by a direct drive propeller fan. This condenser air is then discharged out of the top of the cabinet.

These units are designed for free air discharge, so no additional resistance like duct work shall be attached.

The suction and liquid line connections on present models are of the sweat type for field piping with refrigerant type copper. 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. GSC units are charged 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.

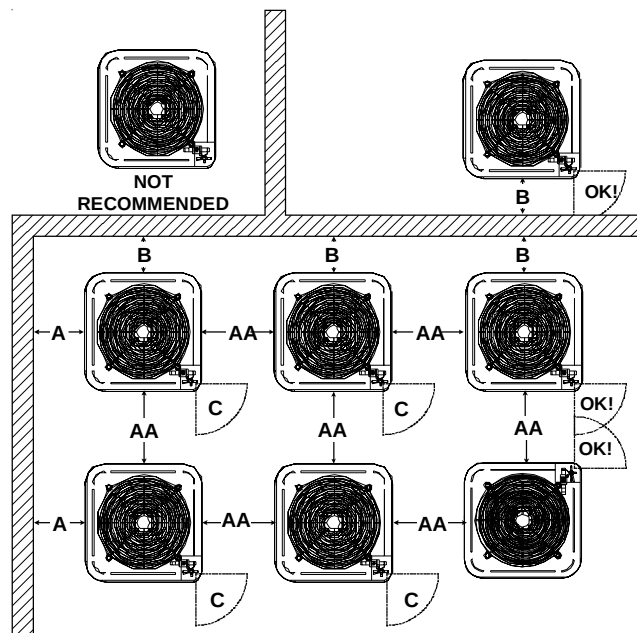
The GSC condensers use new generation scroll compressors. These compressors have an internal equalization mechanism and an anti-counter rotation device which allow the scrolls to equalize in approximately 1/2 second at shut down.

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 flood-back or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.

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

Operating pressures, amp draws and minimum circuit ampacity may differ from standard reciprocating compressors. This information may be found in the "Cooling Performance Data" section and should be reviewed prior to installation of the condenser.



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

Special consideration must be given to location of the condensing unit(s) in regard to structures, obstructions, other units, and any/all other factors that may interfere with air circulation. Where possible, the top of the unit should be completely unobstructed; however, if vertical conditions require placement beneath an obstruction **there should be a minimum of 60 inches between the top of the unit and the obstruction(s)**. The specified dimensions meet requirements for air circulation only. Consult all appropriate regulatory codes prior to determining final clearances.

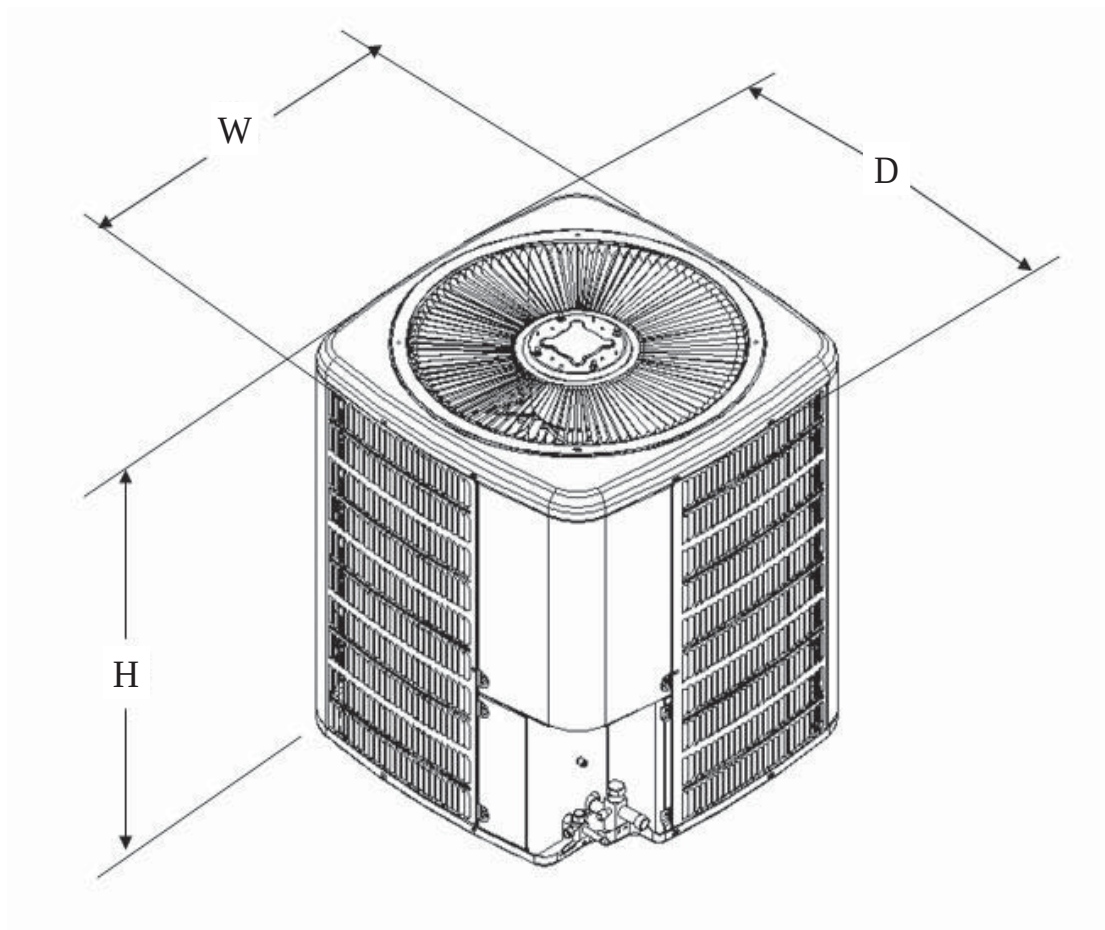
Another important consideration in selecting a location for the unit(s) is the angle to obstructions. Either side adjacent the valves can be placed toward the structure provided the side away from the structure maintains minimum service clearance. Corner installations are strongly discouraged.

DO **NOT** locate the unit:

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

PRODUCT DESIGN

Dimensions



Model	Dimensions - W x D x H
GSC10090*	35½ x 35½ x 37¼
GSC10120*	35½ x 35½ x 41½

CONDENSING UNIT SPECIFICATIONS

GSC10

	GSC100903A*	GSC101203A*	GSC100904A*	GSC101204A*
Cooling Capacity, BTUH	87,000	109,000	87,000	109,000
Compressor				
R.L. Amps	25.6	30.1	12.8	15.5
L.R. Amps	196	225	100	114
Condenser Fan Motor				
Horsepower	1	1	1	1
F.L. Amps	5.6	5.6	2.7	2.7
Liquid Line, Inches O.D. ⁽¹⁾	5/8"	5/8"	5/8"	5/8"
Suction Line, Inches O.D. ⁽¹⁾	1 1/8"	1 1/8"	1 1/8"	1 1/8"
Refrigerant Charge	32	32	32	32
Power Supply	208/230-60-3	208/230-60-3	460-60-3	460-60-3
Minimum Circuit Ampacity ⁽²⁾	37.6	43.2	18.7	22.1
Maximum Overcurrent Device ⁽³⁾	60	70	30	30
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	315	334	315	334

⁽¹⁾ Up to 35' in equivalent line length.

⁽²⁾ Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes.

⁽³⁾ Maximum Overcurrent Protection Device:

MUST use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

This data is provided as a guide, it is important to electrically connect the unit and properly size fuse circuit breakers and wires in accordance with all national and/or local electrical codes. Use copper wire only.

COOLING PERFORMANCE DATA

GSC100903A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSC100903AA / AR090

		65						75						85						95						105						115					
		Outdoor Ambient Temperature																																			
		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								
	3038	MBh	86.2	89.4	97.9	-	84.2	87.3	95.6	-	82.2	85.2	93.4	-	80.2	83.1	91.1	-	76.2	79.0	86.5	-	70.6	73.2	80.2	-	70.6	73.2	80.2	-							
		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	-							
		Delta T	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	12	-	18	15	12	-	18	15	12	-							
		KW	6.80	6.93	7.13	-	7.28	7.42	7.64	-	7.70	7.85	8.09	-	8.07	8.23	8.48	-	8.38	8.55	8.82	-	8.65	8.83	9.11	-	8.65	8.83	9.11	-							
		AMPS	18.3	18.6	19.2	-	19.6	20.0	20.5	-	21.0	21.5	22.1	-	22.3	22.8	23.5	-	23.6	24.1	24.9	-	24.9	25.4	26.2	-	24.9	25.4	26.2	-							
		HI PR	149	160	169	-	167	179	190	-	190	204	216	-	216	232	245	-	243	262	276	-	269	289	305	-	269	289	305	-							
		LO PR	59	63	69	-	62	66	73	-	65	69	75	-	68	73	79	-	71	76	83	-	74	79	86	-	74	79	86	-							
70	2700	MBh	83.7	86.8	95.1	-	81.8	84.8	92.9	-	79.8	82.7	90.7	-	77.9	80.7	88.4	-	74.0	76.7	84.0	-	68.5	71.0	77.8	-	68.5	71.0	77.8	-							
		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	-							
		Delta T	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-	18	16	12	-							
		KW	6.75	6.88	7.08	-	7.22	7.37	7.58	-	7.64	7.79	8.03	-	8.01	8.17	8.42	-	8.32	8.49	8.75	-	8.59	8.76	9.04	-	8.59	8.76	9.04	-							
		AMPS	18.1	18.5	19.0	-	19.4	19.8	20.4	-	20.9	21.3	21.9	-	22.1	22.6	23.3	-	23.4	23.9	24.6	-	24.7	25.2	26.0	-	24.7	25.2	26.0	-							
		HI PR	147	158	167	-	165	178	188	-	188	202	213	-	214	230	243	-	241	259	273	-	266	286	302	-	266	286	302	-							
		LO PR	59	62	68	-	62	66	72	-	64	68	75	-	68	72	78	-	71	75	82	-	73	78	85	-	73	78	85	-							
	2363	MBh	77.3	80.1	87.8	-	75.5	78.2	85.7	-	73.7	76.4	83.7	-	71.9	74.5	81.6	-	68.3	70.8	77.5	-	63.3	65.6	71.8	-	63.3	65.6	71.8	-							
		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	0.64	0.44	-	0.76	0.64	0.44	-							
		Delta T	20	17	13	-	20	18	13	-	20	18	13	-	20	18	13	-	20	17	13	-	19	16	12	-	19	16	12	-							
		KW	6.61	6.73	6.93	-	7.07	7.20	7.41	-	7.47	7.62	7.84	-	7.82	7.98	8.22	-	8.13	8.29	8.54	-	8.39	8.56	8.82	-	8.39	8.56	8.82	-							
		AMPS	17.7	18.1	18.6	-	18.9	19.3	19.9	-	20.4	20.8	21.4	-	21.6	22.1	22.7	-	22.8	23.3	24.0	-	24.0	24.6	25.3	-	24.0	24.6	25.3	-							
		HI PR	143	154	162	-	160	172	182	-	182	196	207	-	207	223	236	-	233	251	265	-	258	278	293	-	258	278	293	-							
		LO PR	57	60	66	-	60	64	70	-	62	66	72	-	65	70	76	-	69	73	80	-	71	76	82	-	71	76	82	-							

3038	MBh	87.7	90.3	97.7	104.9	85.7	88.2	95.5	102.5	83.6	86.1	93.2	100.0	81.6	84.0	90.9	97.6	77.5	79.8	86.4	92.7	71.8	73.9	80.0	85.9
	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	22	20	16	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	11	21	19	15	11
	KW	6.85	6.99	7.19	7.40	7.33	7.48	7.70	7.93	7.76	7.91	8.15	8.40	8.13	8.30	8.55	8.82	8.45	8.62	8.89	9.17	8.72	8.90	9.18	9.47
	AMPS	18.4	18.8	19.3	20.0	19.7	20.1	20.7	21.4	21.2	21.7	22.3	23.1	22.5	23.0	23.7	24.5	23.8	24.3	25.1	25.9	25.1	25.6	26.4	27.3
	HI PR	150	162	171	178	168	181	191	200	192	206	218	227	218	235	248	259	245	264	279	291	271	292	308	321
	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
2700	MBh	85.1	87.7	94.9	101.8	83.2	85.6	92.7	99.5	81.2	83.6	90.5	97.1	79.2	81.5	88.3	94.7	75.2	77.5	83.9	90.0	69.7	71.8	77.7	83.4
	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	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	20	16	11
	KW	6.80	6.93	7.13	7.34	7.28	7.42	7.64	7.87	7.70	7.85	8.09	8.34	8.07	8.23	8.48	8.75	8.38	8.56	8.82	9.10	8.65	8.83	9.11	9.40
	AMPS	18.3	18.7	19.2	19.8	19.6	20.0	20.5	21.2	21.0	21.5	22.1	22.9	22.3	22.8	23.5	24.3	23.6	24.1	24.9	25.7	24.9	25.4	26.2	27.1
	HI PR	149	160	169	176	167	179	190	198	190	204	216	225	216	233	246	256	243	262	276	288	269	289	305	318
	LO PR	59	63	69	73	62	66	73	77	65	69	75	80	68	73	79	84	71	76	83	88	74	79	86	91
2363	MBh	78.6	80.9	87.6	94.0	76.8	79.0	85.5	91.8	74.9	77.1	83.5	89.6	73.1	75.3	81.5	87.4	69.4	71.5	77.4	83.1	64.3	66.2	71.7	76.9
	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	23	21	17	12	23	22	18	12	23	22	18	12	24	22	18	12	23	21	18	12	22	20	16	11
	KW	6.66	6.78	6.98	7.18	7.12	7.26	7.47	7.69	7.52	7.67	7.90	8.14	7.88	8.04	8.29	8.54	8.19	8.36	8.61	8.88	8.45	8.63	8.89	9.17
	AMPS	17.8	18.2	18.7	19.3	19.1	19.5	20.1	20.7	20.5	21.0	21.6	22.3	21.8	22.2	22.9	23.7	23.0	23.5	24.2	25.1	24.2	24.8	25.5	26.4
	HI PR	144	155	164	171	162	174	184	192	184	198	209	218	210	226	238	248	236	254	268	279	261	280	296	309
	LO PR	57	61	67	71	61	64	70	75	63	67	73	78	66	70	77	82	69	74	81	86	72	76	83	89

COOLING OPERATION

MODEL: GSC100903AA / AR090

3038	MBh	90.8	92.6	97.0	103.4	88.7	90.4	94.7	101.0	86.6	88.3	92.4	98.6	84.5	86.1	90.2	96.2	80.3	81.8	85.7	91.4	74.3	75.8	79.4	84.7
	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	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.94	0.77
	Delta T	26	26	24	21	26	26	24	21	26	26	24	21	26	26	25	21	24	25	24	21	23	23	20	
	KW	6.95	7.09	7.29	7.51	7.44	7.59	7.82	8.05	7.87	8.03	8.28	8.53	8.26	8.43	8.68	8.96	8.58	8.76	9.03	9.31	8.86	9.05	9.33	9.63
	AMPS	18.7	19.1	19.6	20.3	20.0	20.5	21.1	21.8	21.6	22.0	22.7	23.4	22.9	23.4	24.1	24.9	24.2	24.7	25.5	26.4	25.5	26.1	26.9	27.8
	HI PR	153	165	174	182	172	185	195	204	195	210	222	232	223	240	253	264	250	270	285	297	277	298	314	328
	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
2700	MBh	88.2	89.9	94.1	100.4	86.1	87.8	91.9	98.1	84.1	85.7	89.7	95.7	82.0	83.6	87.6	93.4	77.9	79.4	83.2	88.7	72.2	73.6	77.1	82.2
	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	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.90	0.73
	Delta T	27	27	25	22	27	27	25	22	27	27	25	22	28	27	26	22	27	27	25	22	25	25	24	20
	KW	6.90	7.04	7.24	7.45	7.39	7.53	7.76	7.99	7.82	7.97	8.21	8.47	8.19	8.36	8.62	8.89	8.51	8.69	8.96	9.24	8.79	8.98	9.25	9.55
	AMPS	18.6	18.9	19.5	20.1	19.9	20.3	20.9	21.6	21.4	21.8	22.5	23.3	22.7	23.2	23.9	24.7	24.0	24.5	25.3	26.2	25.3	25.9	26.7	27.6
	HI PR	152	163	172	180	170	183	193	202	194	208	220	229	220	237	250	261	248	267	282	294	274	295	311	325
	LO PR	60	64	70	75	64	68	74	79	66	70	77	82	70	74	81	86	73	78	85	90	75	80	88	93
2363	MBh	81.4	83.0	86.9	92.7	79.5	81.0	84.9	90.5	77.6	79.1	82.8	88.4	75.7	77.2	80.8	86.2	71.9	73.3	76.8	81.9	66.6	67.9	71.1	75.9
	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	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.96	0.87	0.71
	Delta T	28	27	26	22	28	27	26	22	28	27	26	22	28	28	26	23	28	27	26	22	26	25	24	21
	KW	6.75	6.88	7.08	7.29	7.22	7.37	7.58	7.81	7.64	7.79	8.02	8.27	8.00	8.17	8.42	8.68	8.32	8.49	8.75	9.02	8.58	8.76	9.03	9.32
	AMPS	18.1	18.5	19.0	19.6	19.4	19.8	20.4	21.0	20.9	21.3	21.9	22.7	22.1	22.6	23.3	24.1	23.4	23.9	24.6	25.5	24.7	25.2	26.0	26.9
	HI PR	147	158	167	174	165	178	188	196	188	202	213	222	214	230	243	253	241	259	273	285	266	286	302	315
	LO PR	59	62	68	72	62	66	72	76	64	68	75	79	67	72	78	83	71	75	82	87	73	78	85	90

85

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

GSC101203A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSC101203AA / AR120

IDB*		Outdoor Ambient Temperature															Indoor Wet Bulb Temperature														
		65					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	4050	MBh	111.7	115.8	126.9	-	109.1	113.1	123.9	-	106.5	110.4	121.0	-	103.9	107.7	118.0	-	98.7	102.3	112.1	-	91.4	94.8	103.8	-	87.1	90.5	100.5	-	83.8
		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	-	0.84	0.71	0.50	-	0.86
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-	16	14	10	-	14
		KW	8.78	8.95	9.21	-	9.40	9.59	9.88	-	9.95	10.15	10.46	-	10.44	10.65	10.98	-	10.85	11.07	11.42	-	11.20	11.44	11.80	-	11.00	11.20	11.60	-	11.40
		AMPS	21.7	22.2	22.9	-	23.3	23.9	24.6	-	25.2	25.8	26.6	-	26.8	27.4	28.2	-	28.4	29.0	29.9	-	30.0	30.7	31.6	-	29.9	30.6	31.5	-	30.4
	3600	HI PR	135	146	154	-	152	164	173	-	173	186	196	-	197	212	224	-	221	238	252	-	245	263	278	-	242	259	275	-	267
		LO PR	58	62	68	-	62	66	72	-	64	68	74	-	67	72	78	-	71	75	82	-	73	78	85	-	72	77	84	-	79
		MBh	108.5	112.4	123.2	-	105.9	109.8	120.3	-	103.4	107.2	117.4	-	100.9	104.6	114.6	-	95.8	99.3	108.8	-	88.8	92.0	100.8	-	84.9	88.1	96.8	-	90.1
		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	-	0.78	0.65	0.44	-	0.76
		Delta T	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	16	12	-	17	15	11	-	14
75	4050	MBh	100.1	103.8	113.7	-	97.8	101.3	111.0	-	95.4	98.9	108.4	-	93.1	96.5	105.7	-	88.5	91.7	100.5	-	81.9	84.9	93.1	-	79.9	82.9	91.6	-	84.9
		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	-	0.75	0.62	0.43	-	0.73
		Delta T	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-	17	15	11	-	14
		KW	8.53	8.69	8.94	-	9.13	9.31	9.58	-	9.65	9.85	10.14	-	10.12	10.32	10.64	-	10.51	10.73	11.06	-	10.85	11.08	11.42	-	10.65	10.88	11.22	-	11.05
		AMPS	21.0	21.5	22.1	-	22.6	23.1	23.8	-	24.4	24.9	25.7	-	25.9	26.5	27.3	-	27.4	28.0	28.9	-	28.9	29.6	30.5	-	28.7	29.4	30.3	-	29.6
	3150	HI PR	130	140	148	-	146	157	166	-	166	179	189	-	189	203	215	-	213	229	242	-	235	253	267	-	232	249	265	-	262
		LO PR	56	60	65	-	59	63	69	-	62	65	71	-	65	69	75	-	68	72	79	-	70	75	81	-	69	74	80	-	77
		MBh	100.1	103.8	113.7	-	97.8	101.3	111.0	-	95.4	98.9	108.4	-	93.1	96.5	105.7	-	88.5	91.7	100.5	-	81.9	84.9	93.1	-	79.9	82.9	91.6	-	84.9
		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	-	0.75	0.62	0.43	-	0.73
		Delta T	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-	17	15	11	-	14

75	4050	MBh	113.6	117.0	126.6	135.9	111.0	114.2	123.7	132.7	108.3	111.5	120.7	129.6	105.7	108.8	117.8	126.4	100.4	103.4	111.9	120.1	93.0	95.7	103.6	111.2	87.1	90.5	100.5	-	83.8
		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	0.87	0.74	0.53	-	0.80
		Delta T	21	20	16	11	21	20	16	11	21	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10	17	16	12	-	14
		KW	8.85	9.02	9.28	9.56	9.48	9.67	9.95	10.26	10.03	10.23	10.55	10.87	10.52	10.74	11.07	11.42	10.93	11.16	11.51	11.88	11.29	11.53	11.89	12.27	11.00	11.20	11.60	-	11.40
		AMPS	21.9	22.4	23.1	23.9	23.5	24.1	24.8	25.6	25.4	26.0	26.8	27.7	27.0	27.6	28.5	29.5	28.6	29.3	30.2	31.3	30.2	30.9	31.9	33.1	30.0	30.7	31.6	-	30.4
	3600	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	242	259	275	-	267
		LO PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	78	86	91	69	74	80	-	77
		MBh	110.3	113.6	122.9	131.9	107.7	110.9	120.1	128.9	105.2	108.3	117.2	125.8	102.6	105.6	114.3	122.7	97.5	100.4	108.6	116.6	90.3	93.0	100.6	108.0	84.9	88.1	96.8	-	90.1
		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	0.84	0.71	0.50	-	0.86
		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	18	17	13	-	15
75	4050	KW	8.78	8.96	9.22	9.49	9.41	9.59	9.88	10.18	9.95	10.16	10.46	10.79	10.44	10.65	10.98	11.33	10.85	11.08	11.42	11.78	11.21	11.44	11.80	12.18	10.90	11.10	11.50	-	11.30
		AMPS	21.8	22.2	22.9	23.7	23.4	23.9	24.6	25.4	25.2	25.8	26.6	27.5	26.8	27.4	28.3	29.3	28.4	29.0	30.0	31.0	30.0	30.7	31.6	32.8	29.9	30.6	31.5	-	30.4
		HI PR	135	146	154	161	152	164	173	180	173	186	196	205	197	212	224	233	222	238	252	263	245	263	278	290	242	259	275	-	267
		LO PR	58	62	68	72	62	66	72	76	64	68	74	79	67	72	78	83	71	75	82	87	73	78	85	90	69	74	80	-	77
		MBh	101.8	104.8	113.5	121.8	99.4	102.4	110.8	118.9	97.1	99.9	108.2	116.1	94.7	97.5	105.5	113.3	90.0	92.6	100.3	107.6	83.3	85.8	92.9	99.7	84.9	88.1	96.8	-	90.1
	3150	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	0.84	0.71	0.50	-	0.86
		Delta T	22	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	19	16	11	18	17	13	-	15
		KW	8.59	8.76	9.01	9.28	9.19	9.38	9.65	9.94	9.73	9.92	10.22	10.54	10.20	10.41	10.72	11.06	10.60	10.82	11.15	11.50	10.94	11.17	11.52	11.88	10.90	11.10	11.50	-	11.30
		AMPS	21.2	21.7	22.3	23.1	22.8	23.3	24.0	24.8	24.6	25.1	25.9	26.8	26.1	26.7	27.5	28.5	27.7	28.3	29.2	30.2	29.2	29.9	30.8	31.9	29.9	30.6	31.5	-	30.4
		HI PR	131	141	149	156	147	159	168	175	168	180	191	199	191	206	217	226	215	231	244	255	237	255	270	281	242	259	275	-	267
		LO PR	57	60	66	70	60	64	69	74	62	66	72	77	65	69	76	81	68	73	80	85	71	75	82	88	69	74	80	-	77

NOTE: Shaded area is ACCA (TVA) conditions

* Entering Indoor Dry Bulb Temperature

COOLING PERFORMANCE DATA

GSC101203A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSC101203AA / AR120

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		
80	4050	MBh	115.6	118.1	126.2	134.9	112.9	115.4	123.3	131.8	110.2	112.7	120.4	128.7	107.6	109.9	117.4	125.5	102.2	104.4	111.5	119.2	94.6	96.7	103.3	110.5	90.0	0.85	0.69	0.51	
		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	24	23	20	16
		KW	8.91	9.09	9.35	9.63	9.55	9.74	10.03	10.34	10.11	10.31	10.63	10.96	10.60	10.82	11.16	11.51	11.02	11.25	11.60	11.97	11.38	11.62	11.99	12.37	AMPS	22.1	22.6	23.3	24.1
		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	LO PR	60	63	69	74
		MBh	112.3	114.7	122.6	131.0	109.6	112.0	119.7	128.0	107.0	109.4	116.9	124.9	104.4	106.7	114.0	121.9	99.2	101.4	108.3	115.8	91.9	93.9	100.3	107.2	S/T	0.86	0.81	0.66	0.49
		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	KW	8.85	9.02	9.28	9.56
		AMPS	21.9	22.4	23.1	23.9	23.5	24.1	24.8	25.6	25.4	26.0	26.8	27.7	27.0	27.6	28.5	29.5	28.6	29.3	30.2	31.3	30.2	30.9	31.9	33.1	HI PR	137	147	155	162
		LO PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	78	86	91	MBh	103.6	105.9	113.1	120.9
3150	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	25	24	21	17	
	KW	8.65	8.82	9.08	9.35	9.26	9.45	9.73	10.02	9.80	10.00	10.30	10.62	10.28	10.49	10.81	11.14	10.68	10.90	11.24	11.59	11.03	11.26	11.61	11.98	AMPS	21.4	21.9	22.5	23.3	
	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	LO PR	57	61	66	71	
	LO PR	57	61	66	71	60	64	70	75	63	67	73	78	66	70	77	82	69	74	80	86	72	76	83	88	MBh	103.6	105.9	113.1	120.9	
	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	25	24	21	17	
	KW	8.65	8.82	9.08	9.35	9.26	9.45	9.73	10.02	9.80	10.00	10.30	10.62	10.28	10.49	10.81	11.14	10.68	10.90	11.24	11.59	11.03	11.26	11.61	11.98	AMPS	21.4	21.9	22.5	23.3	
	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	LO PR	57	61	66	71	
	LO PR	57	61	66	71	60	64	70	75	63	67	73	78	66	70	77	82	69	74	80	86	72	76	83	88	MBh	103.6	105.9	113.1	120.9	

4050	MBh	117.6	119.9	125.6	134.0	114.9	117.1	122.7	130.9	112.2	114.3	119.8	127.8	109.4	111.6	116.8	124.6	104.0	106.0	111.0	118.4	96.3	98.2	102.8	109.7
	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	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.94	0.77
	Delta T	25	25	23	20	26	25	24	21	25	25	24	21	25	25	24	21	24	24	24	20	22	22	22	19
	KW	8.98	9.16	9.42	9.71	9.62	9.81	10.11	10.42	10.18	10.39	10.71	11.04	10.68	10.91	11.24	11.60	11.11	11.34	11.70	12.07	11.47	11.72	12.09	12.47
	AMPS	22.3	22.8	23.5	24.3	23.9	24.5	25.2	26.1	25.8	26.4	27.2	28.2	27.5	28.1	29.0	30.0	29.1	29.8	30.7	31.8	30.8	31.5	32.5	33.6
	HI PR	140	150	159	165	157	169	178	186	178	192	202	211	203	218	231	240	228	246	259	271	252	271	287	299
	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
	MBh	114.2	116.4	121.9	130.1	111.6	113.7	119.1	127.1	108.9	111.0	116.3	124.0	106.2	108.3	113.4	121.0	100.9	102.9	107.8	115.0	93.5	95.3	99.8	106.5
	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	0.99	0.95	0.86	0.70	1.00	0.99	0.89	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
	3600	KW	8.91	9.09	9.35	9.63	9.55	9.74	10.03	10.34	10.11	10.31	10.63	10.96	10.60	10.82	11.16	11.51	11.02	11.25	11.60	11.97	11.38	11.62	11.99
AMPS		22.1	22.6	23.3	24.1	23.7	24.3	25.0	25.9	25.6	26.2	27.0	28.0	27.3	27.9	28.7	29.8	28.9	29.6	30.5	31.6	30.5	31.2	32.2	33.3
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
LO PR		60	63	69	74	63	67	73	78	65	70	76	81	69	73	80	85	72	77	84	89	74	79	86	92
MBh		105.4	107.5	112.5	120.1	103.0	105.0	109.9	117.3	100.5	102.5	107.3	114.5	98.1	100.0	104.7	111.7	93.2	95.0	99.5	106.1	86.3	88.0	92.1	98.3
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	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.96	0.87	0.71
Delta T		27	26	25	22	27	27	25	22	27	27	25	22	27	27	25	22	27	26	25	22	25	25	23	20
KW		8.72	8.89	9.14	9.42	9.33	9.52	9.80	10.10	9.88	10.08	10.38	10.70	10.35	10.57	10.89	11.23	10.76	10.99	11.33	11.68	11.11	11.35	11.70	12.07
AMPS		21.6	22.0	22.7	23.5	23.1	23.7	24.4	25.2	25.0	25.5	26.3	27.2	26.6	27.2	28.0	29.0	28.1	28.8	29.7	30.7	29.7	30.4	31.3	32.5
HI PR		134	144	152	159	150	162	171	178	171	184	194	203	195	210	221	231	219	236	249	260	242	261	275	287
LO PR		58	61	67	71	61	65	71	76	63	67	74	78	67	71	77	82	70	74	81	86	72	77	84	89
3150	MBh	105.4	107.5	112.5	120.1	103.0	105.0	109.9	117.3	100.5	102.5	107.3	114.5	98.1	100.0	104.7	111.7	93.2	95.0	99.5	106.1	86.3	88.0	92.1	98.3
	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	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.96	0.87	0.71
	Delta T	27	26	25	22	27	27	25	22	27	27	25	22	27	27	25	22	27	26	25	22	25	25	23	20
	KW	8.72	8.89	9.14	9.42	9.33	9.52	9.80	10.10	9.88	10.08	10.38	10.70	10.35	10.57	10.89	11.23	10.76	10.99	11.33	11.68	11.11	11.35	11.70	12.07
	AMPS	21.6	22.0	22.7	23.5	23.1	23.7	24.4	25.2	25.0	25.5	26.3	27.2	26.6	27.2	28.0	29.0	28.1	28.8	29.7	30.7	29.7	30.4	31.3	32.5
	HI PR	134	144	152	159	150	162	171	178	171	184	194	203	195	210	221	231	219	236	249	260	242	261	275	287
	LO PR	58	61	67	71	61	65	71	76	63	67	74	78	67	71	77	82	70	74	81	86	72	77	84	89

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* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

GSC100904A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSC100904AA / AR090

IDB* Airflow		Outdoor Ambient Temperature															Indoor Wet Bulb 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				
70	3038	MBh	86.2	89.4	97.9	-	84.2	87.3	95.6	-	82.2	85.2	93.4	-	80.2	83.1	91.1	-	76.2	79.0	86.5	-	70.6	73.2	80.2	-	70.6	73.2	80.2	-	70.6	73.2	80.2	-
		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	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	12	-	18	15	12	-	18	15	12	-	18	15	12	-
		KW	6.84	6.96	7.16	-	7.30	7.44	7.65	-	7.71	7.86	8.09	-	8.07	8.23	8.48	-	8.38	8.55	8.80	-	8.64	8.82	9.09	-	8.64	8.82	9.09	-	8.64	8.82	9.09	-
		AMPS	9.1	9.3	9.5	-	9.7	9.9	10.2	-	10.5	10.7	11.0	-	11.1	11.4	11.7	-	11.7	12.0	12.4	-	12.4	12.7	13.0	-	12.4	12.7	13.0	-	12.4	12.7	13.0	-
	HI PR	149	160	169	-	167	179	190	-	190	204	216	-	216	232	245	-	243	262	276	-	269	289	305	-	269	289	305	-	269	289	305	-	
	LO PR	59	63	69	-	62	66	73	-	65	69	75	-	68	73	79	-	71	76	83	-	74	79	86	-	74	79	86	-	74	79	86	-	
	2700	MBh	83.7	86.8	95.1	-	81.8	84.8	92.9	-	79.8	82.7	90.7	-	77.9	80.7	88.4	-	74.0	76.7	84.0	-	68.5	71.0	77.8	-	68.5	71.0	77.8	-	68.5	71.0	77.8	-
		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	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-	18	16	12	-	18	16	12	-
KW		6.79	6.91	7.11	-	7.25	7.39	7.60	-	7.65	7.80	8.03	-	8.01	8.17	8.41	-	8.32	8.48	8.74	-	8.58	8.75	9.02	-	8.58	8.75	9.02	-	8.58	8.75	9.02	-	
AMPS		9.0	9.2	9.5	-	9.7	9.9	10.1	-	10.4	10.6	10.9	-	11.0	11.3	11.6	-	11.6	11.9	12.3	-	12.3	12.5	12.9	-	12.3	12.5	12.9	-	12.3	12.5	12.9	-	
2363	HI PR	147	158	167	-	165	178	188	-	188	202	213	-	214	230	243	-	241	259	273	-	266	286	302	-	266	286	302	-	266	286	302	-	
	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	77.3	80.1	87.8	-	75.5	78.2	85.7	-	73.7	76.4	83.7	-	71.9	74.5	81.6	-	68.3	70.8	77.5	-	63.3	65.6	71.8	-	63.3	65.6	71.8	-	63.3	65.6	71.8	-	
	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	0.64	0.44	-	0.76	0.64	0.44	-	0.76	0.64	0.44	-	
	Delta T	20	17	13	-	20	18	13	-	20	18	13	-	20	18	13	-	20	17	13	-	19	16	12	-	19	16	12	-	19	16	12	-	
2363	KW	6.65	6.77	6.96	-	7.09	7.23	7.43	-	7.49	7.63	7.85	-	7.83	7.99	8.22	-	8.13	8.29	8.54	-	8.38	8.55	8.81	-	8.38	8.55	8.81	-	8.38	8.55	8.81	-	
	AMPS	8.8	9.0	9.2	-	9.4	9.6	9.9	-	10.1	10.4	10.7	-	10.7	11.0	11.3	-	11.4	11.6	12.0	-	12.0	12.2	12.6	-	12.0	12.2	12.6	-	12.0	12.2	12.6	-	
	HI PR	143	154	162	-	160	172	182	-	182	196	207	-	207	223	236	-	233	251	265	-	258	278	293	-	258	278	293	-	258	278	293	-	
	LO PR	57	60	66	-	60	64	70	-	62	66	72	-	65	70	76	-	69	73	80	-	71	76	82	-	71	76	82	-	71	76	82	-	

75	3038	MBh	87.7	90.3	97.7	104.9	85.7	88.2	95.5	102.5	83.6	86.1	93.2	100.0	81.6	84.0	90.9	97.6	77.5	79.8	86.4	92.7	71.8	73.9	80.0	85.9
		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	22	20	16	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	11	21	19	15	11
		KW	6.88	7.01	7.21	7.42	7.35	7.50	7.71	7.94	7.77	7.92	8.15	8.40	8.13	8.30	8.54	8.80	8.44	8.61	8.87	9.15	8.71	8.89	9.16	9.44
		AMPS	9.2	9.4	9.6	9.9	9.8	10.0	10.3	10.7	10.6	10.8	11.1	11.5	11.2	11.4	11.8	12.2	11.8	12.1	12.5	12.9	12.5	12.8	13.2	13.6
	2700	HI PR	150	162	171	178	168	181	191	200	192	206	218	227	218	235	248	259	245	264	279	291	271	292	308	321
		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
		MBh	85.1	87.7	94.9	101.8	83.2	85.6	92.7	99.5	81.2	83.6	90.5	97.1	79.2	81.5	88.3	94.7	75.2	77.5	83.9	90.0	69.7	71.8	77.7	83.4
		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	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	20	16	11
	2363	KW	6.84	6.96	7.16	7.36	7.30	7.44	7.65	7.88	7.71	7.86	8.09	8.33	8.07	8.23	8.48	8.74	8.38	8.55	8.81	9.08	8.65	8.82	9.09	9.37
		AMPS	9.1	9.3	9.5	9.9	9.7	9.9	10.2	10.6	10.5	10.7	11.0	11.4	11.1	11.4	11.7	12.1	11.7	12.0	12.4	12.8	12.4	12.7	13.0	13.5
		HI PR	149	160	169	176	167	179	190	198	190	204	216	225	216	233	246	256	243	262	276	288	269	289	305	318
		LO PR	59	63	69	73	62	66	73	77	65	69	75	80	68	73	79	84	71	76	83	88	74	79	86	91
		MBh	78.6	80.9	87.6	94.0	76.8	79.0	85.5	91.8	74.9	77.1	83.5	89.6	73.1	75.3	81.5	87.4	69.4	71.5	77.4	83.1	64.3	66.2	71.7	76.9

COOLING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSC100904AA / AR090

		Outdoor Ambient Temperature																																														
		65					75					85					95							105																								
		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	3038	MBh	89.3	91.2	97.4	104.2	87.2	89.1	95.2	101.7	85.1	87.0	92.9	99.3	83.0	84.8	90.6	96.9	78.9	80.6	86.1	92.0	73.1	74.7	79.8	85.3	79.9	81.6	87.1	93.0	74.1	75.7	81.2	87.1														
		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	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59														
		Delta T	24	23	20	16	25	24	21	16	25	24	21	16	25	24	21	17	24	23	20	16	22	22	19	15	24	23	20	16	22	22	19	15														
		KW	6.93	7.06	7.26	7.47	7.41	7.55	7.77	8.00	7.83	7.98	8.21	8.46	8.19	8.36	8.61	8.87	8.51	8.68	8.94	9.22	8.78	8.96	9.23	9.52	8.85	9.02	9.24	9.47	9.00	9.18	9.41	9.00	9.18													
		AMPS	9.2	9.4	9.7	10.0	9.9	10.1	10.4	10.7	10.6	10.9	11.2	11.6	11.3	11.5	11.9	12.3	11.9	12.2	12.6	13.0	12.6	12.9	13.3	13.7	12.8	13.1	13.5	13.9	13.2	13.6	13.9	13.2	13.6													
		HI PR	152	163	172	180	170	183	193	202	194	208	220	229	220	237	250	261	248	267	282	294	274	295	311	325	285	302	316	329	302	316	329	302	316	329	302	316										
LO PR	60	64	70	75	64	68	74	79	66	70	77	82	70	74	81	86	73	78	85	90	75	80	88	93	78	83	90	97	84	91	98	85	92	99	86	93												
2700	MBh	86.7	88.5	94.6	101.1	84.6	86.5	92.4	98.8	82.6	84.4	90.2	96.4	80.6	82.4	88.0	94.1	76.6	78.2	83.6	89.4	70.9	72.5	77.4	82.8	77.9	79.6	85.1	91.0	72.1	73.7	79.2	85.1															
	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	0.99	0.92	0.75	0.56	0.99	0.93	0.75	0.56															
	Delta T	25	24	21	17	26	25	21	17	26	25	21	17	26	25	22	17	26	24	21	17	24	23	20	16	25	24	21	17	24	23	20	16	25	24	21	17											
	KW	6.88	7.01	7.21	7.42	7.35	7.50	7.71	7.94	7.77	7.92	8.15	8.40	8.13	8.30	8.54	8.80	8.44	8.61	8.87	9.15	8.71	8.89	9.16	9.45	8.76	8.93	9.16	9.39	9.00	9.18	9.41	9.00	9.18	9.41													
	AMPS	9.2	9.4	9.6	9.9	9.8	10.0	10.3	10.7	10.6	10.8	11.1	11.5	11.2	11.4	11.8	12.2	11.8	12.1	12.5	12.9	12.5	12.8	13.2	13.6	12.7	13.0	13.4	13.8	13.1	13.5	13.8	13.1	13.5	13.8	13.1	13.5											
	HI PR	150	162	171	178	168	181	191	200	192	206	218	227	218	235	248	259	246	264	279	291	271	292	308	322	282	299	312	285	302	315	288	305	318	291	308	321	294	311	324								
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	79	84	91	98	85	92	99	86	93	100	87	94	101	88	95									
2363	MBh	80.0	81.7	87.3	93.3	78.1	79.8	85.3	91.2	76.3	77.9	83.3	89.0	74.4	76.0	81.2	86.8	70.7	72.2	77.2	82.5	65.5	66.9	71.5	76.4	71.9	73.4	78.4	83.7	64.8	66.3	71.3	76.6															
	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	0.72	0.54	0.95	0.89	0.73	0.54															
	Delta T	26	25	22	17	26	25	22	17	26	25	22	17	26	25	22	18	26	25	22	17	24	23	20	16	25	24	21	17	24	23	20	16	25	24	21	17											
	KW	6.74	6.87	7.06	7.26	7.19	7.33	7.54	7.76	7.60	7.74	7.97	8.21	7.95	8.11	8.35	8.60	8.25	8.42	8.67	8.93	8.51	8.68	8.95	9.22	8.62	8.79	9.02	9.25	8.86	9.03	9.26	8.87	9.04	9.27	8.88	9.05	9.28	8.89	9.06	9.29							
	AMPS	9.0	9.1	9.4	9.7	9.6	9.8	10.1	10.4	10.3	10.5	10.8	11.2	10.9	11.2	11.5	11.9	11.6	11.8	12.2	12.6	12.2	12.4	12.8	13.3	12.3	12.6	13.0	13.4	12.7	13.0	13.4	12.8	13.1	13.5	12.9	13.2	13.6	13.0	13.3	13.7							
	HI PR	146	157	166	173	163	176	186	194	186	200	211	220	212	228	241	251	238	256	271	282	263	283	299	312	273	290	303	316	286	303	316	289	306	319	292	309	322	295	312	325	298	315	328	301	318	331	304
LO PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	74	81	87	72	77	84	90	75	80	87	94	81	88	95	82	89	96	83	90	97	84	91	98	85	92	99	86	93			

COOLING PERFORMANCE DATA

GSC101204A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSC101204AA / AR120

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						
4050	MBh	111.7	115.8	126.9	-	109.1	113.1	123.9	-	106.5	110.4	121.0	-	103.9	107.7	118.0	-	98.7	102.3	112.1	-	91.4	94.8	103.8	-										
	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	-										
	Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-										
	KW	8.78	8.95	9.21	-	9.39	9.58	9.87	-	9.94	10.14	10.45	-	10.42	10.64	10.96	-	10.83	11.06	11.40	-	11.18	11.42	11.78	-										
	AMPS	10.8	11.1	11.4	-	11.6	11.9	12.2	-	12.5	12.8	13.2	-	13.3	13.6	14.1	-	14.1	14.5	14.9	-	14.9	15.3	15.7	-										
	HI PR	137	147	155	-	153	165	174	-	174	188	198	-	199	214	226	-	223	240	254	-	247	266	281	-										
	LO PR	58	62	68	-	62	66	72	-	64	68	74	-	67	72	78	-	71	75	82	-	73	78	85	-										
3600	MBh	108.5	112.4	123.2	-	105.9	109.8	120.3	-	103.4	107.2	117.4	-	100.9	104.6	114.6	-	95.8	99.3	108.8	-	88.8	92.0	100.8	-										
	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	-										
	Delta T	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	16	12	-										
	KW	8.71	8.88	9.14	-	9.33	9.51	9.79	-	9.87	10.07	10.37	-	10.34	10.55	10.88	-	10.75	10.97	11.31	-	11.10	11.33	11.68	-										
	AMPS	10.7	11.0	11.3	-	11.5	11.8	12.1	-	12.4	12.7	13.1	-	13.2	13.5	13.9	-	14.0	14.3	14.8	-	14.8	15.1	15.6	-										
	HI PR	135	146	154	-	152	163	172	-	173	186	196	-	197	212	223	-	221	238	251	-	244	263	278	-										
	LO PR	58	61	67	-	61	65	71	-	63	68	74	-	67	71	77	-	70	74	81	-	72	77	84	-										
3150	MBh	100.1	103.8	113.7	-	97.8	101.3	111.0	-	95.4	98.9	108.4	-	93.1	96.5	105.7	-	88.5	91.7	100.5	-	81.9	84.9	93.1	-										
	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	0.64	0.44	-										
	Delta T	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-										
	KW	8.52	8.69	8.94	-	9.12	9.30	9.57	-	9.64	9.83	10.13	-	10.10	10.31	10.62	-	10.50	10.71	11.04	-	10.84	11.06	11.40	-										
	AMPS	10.5	10.7	11.0	-	11.2	11.5	11.8	-	12.1	12.4	12.8	-	12.9	13.2	13.6	-	13.7	14.0	14.4	-	14.4	14.7	15.2	-										
	HI PR	131	141	149	-	147	158	167	-	167	180	190	-	191	205	217	-	215	231	244	-	237	255	269	-										
	LO PR	56	60	65	-	59	63	69	-	62	65	71	-	65	69	75	-	68	72	79	-	70	75	81	-										

4050	MBh	113.6	117.0	126.6	135.9	111.0	114.2	123.7	132.7	108.3	111.5	120.7	129.6	105.7	108.8	117.8	126.4	100.4	103.4	111.9	120.1	93.0	95.7	103.6	111.2
	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	20	16	11	21	20	16	11	21	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10
	KW	8.84	9.01	9.28	9.55	9.47	9.65	9.94	10.24	10.02	10.22	10.53	10.86	10.50	10.72	11.05	11.40	10.92	11.14	11.49	11.85	11.27	11.51	11.87	12.25
	AMPS	10.9	11.2	11.5	11.9	11.7	12.0	12.3	12.8	12.7	12.9	13.3	13.8	13.5	13.8	14.2	14.7	14.3	14.6	15.0	15.6	15.1	15.4	15.9	16.5
	HI PR	138	149	157	164	155	167	176	184	176	190	200	209	201	216	228	238	226	243	256	268	249	268	283	296
	LO PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	78	86	91
3600	MBh	110.3	113.6	122.9	131.9	107.7	110.9	120.1	128.9	105.2	108.3	117.2	125.8	102.6	105.6	114.3	122.7	97.5	100.4	108.6	116.6	90.3	93.0	100.6	108.0
	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	17	12	22	21	17	12	22	21	17	12	23	21	17	12	22	20	17	12	21	19	16	11
	KW	8.78	8.95	9.21	9.48	9.40	9.58	9.87	10.17	9.94	10.14	10.45	10.77	10.42	10.64	10.96	11.31	10.83	11.06	11.40	11.76	11.19	11.42	11.78	12.15
	AMPS	10.8	11.1	11.4	11.8	11.6	11.9	12.2	12.7	12.5	12.8	13.2	13.7	13.3	13.6	14.1	14.6	14.1	14.5	14.9	15.4	14.9	15.3	15.7	16.3
	HI PR	137	147	155	162	153	165	174	182	174	188	198	207	199	214	226	235	223	240	254	265	247	266	281	293
	LO PR	58	62	68	72	62	66	72	76	64	68	74	79	67	72	78	83	71	75	82	87	73	78	85	90
3150	MBh	101.8	104.8	113.5	121.8	99.4	102.4	110.8	118.9	97.1	99.9	108.2	116.1	94.7	97.5	105.5	113.3	90.0	92.6	100.3	107.6	83.3	85.8	92.9	99.7
	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	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	19	16	11
	KW	8.59	8.75	9.00	9.27	9.19	9.37	9.64	9.93	9.72	9.91	10.21	10.52	10.18	10.39	10.71	11.04	10.58	10.80	11.13	11.48	10.92	11.15	11.50	11.86
	AMPS	10.6	10.8	11.1	11.5	11.3	11.6	11.9	12.3	12.2	12.5	12.9	13.3	13.0	13.3	13.7	14.2	13.8	14.1	14.5	15.0	14.5	14.9	15.3	15.9
	HI PR	133	143	151	157	149	160	169	176	169	182	192	201	193	207	219	228	217	233	246	257	239	258	272	284
	LO PR	57	60	66	70	60	64	69	74	62	66	72	77	65	69	76	81	68	73	80	85	71	75	82	88

COOLING PERFORMANCE DATA

GSC101204A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSC101204AA / AR120

		Outdoor Ambient Temperature																													
		65					75					85					95					105					115				
IDB*	Airflow	Entering Indoor Wet Bulb Temperature																													
4050	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	115.6	118.1	126.2	134.9	112.9	115.4	123.3	131.8	110.2	112.7	120.4	128.7	107.6	109.9	117.4	125.5	102.2	104.4	111.5	119.2	94.6	96.7	103.3	110.5	102.2	104.4	111.5	119.2	94.6	
	Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	21	21	19	15	23	23	20	16	21	
	KW	8.91	9.08	9.34	9.62	9.54	9.73	10.02	10.32	10.09	10.30	10.61	10.94	10.59	10.80	11.14	11.49	11.00	11.23	11.58	11.95	11.36	11.60	11.97	12.35	11.00	11.23	11.58	11.95	11.36	
	AMPS	11.0	11.3	11.6	12.0	11.8	12.1	12.5	12.9	12.8	13.0	13.4	13.9	13.6	13.9	14.3	14.8	14.4	14.7	15.2	15.7	15.2	15.5	16.0	16.6	14.4	14.7	15.2	15.7	15.2	
	HI PR	139	150	158	165	156	168	178	185	178	191	202	211	203	218	230	240	228	245	259	270	252	271	286	299	228	245	259	270	252	
3600	LO PR	60	63	69	74	63	67	73	78	65	70	76	81	69	73	80	85	72	77	84	89	74	79	86	92	72	77	84	89	74	
	MBh	112.3	114.7	122.6	131.0	109.6	112.0	119.7	128.0	107.0	109.4	116.9	124.9	104.4	106.7	114.0	121.9	99.2	101.4	108.3	115.8	91.9	93.9	100.3	107.2	99.2	101.4	108.3	115.8	91.9	
	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	0.99	0.92	0.75	0.56	0.99	
	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	25	24	21	17	23	
	KW	8.84	9.01	9.28	9.55	9.47	9.66	9.94	10.24	10.02	10.22	10.53	10.86	10.50	10.72	11.05	11.40	10.92	11.15	11.49	11.86	11.28	11.51	11.87	12.25	10.92	11.15	11.49	11.86	11.28	
	AMPS	10.9	11.2	11.5	11.9	11.7	12.0	12.3	12.8	12.7	12.9	13.3	13.8	13.5	13.8	14.2	14.7	14.3	14.6	15.0	15.6	15.1	15.4	15.9	16.5	14.3	14.6	15.0	15.6	15.1	
3150	HI PR	138	149	157	164	155	167	176	184	176	190	200	209	201	216	228	238	226	243	257	268	249	268	283	296	226	243	257	268	249	
	LO PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	78	86	91	71	76	83	88	74	
	MBh	103.6	105.9	113.1	120.9	101.2	103.4	110.5	118.1	98.8	100.9	107.9	115.3	96.4	98.5	105.2	112.5	91.6	93.6	100.0	106.9	84.8	86.7	92.6	99.0	91.6	93.6	100.0	106.9	84.8	
	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	0.72	0.54	0.95	
	Delta T	25	24	21	17	25	24	21	17	25	24	21	17	26	25	21	17	25	24	21	17	24	23	20	16	26	25	21	17	24	
	KW	8.65	8.82	9.07	9.34	9.25	9.44	9.72	10.01	9.79	9.99	10.29	10.60	10.26	10.47	10.79	11.13	10.66	10.88	11.22	11.57	11.01	11.24	11.59	11.96	10.66	10.88	11.22	11.57	11.01	
80	AMPS	10.7	10.9	11.2	11.6	11.4	11.7	12.0	12.4	12.3	12.6	13.0	13.4	13.1	13.4	13.8	14.3	13.9	14.2	14.7	15.2	14.7	15.0	15.5	16.0	13.9	14.2	14.7	15.2	14.7	
	HI PR	134	144	152	159	150	162	171	178	171	184	194	203	195	209	221	231	219	236	249	260	242	260	275	287	219	236	249	260	242	
	LO PR	57	61	66	71	60	64	70	75	63	67	73	78	66	70	77	82	69	74	80	86	72	76	83	88	69	74	80	86	72	
	MBh	117.6	119.9	125.6	134.0	114.9	117.1	122.7	130.9	112.2	114.3	119.8	127.8	109.4	111.6	116.8	124.6	104.0	106.0	111.0	118.4	96.3	98.2	102.8	109.7	104.0	106.0	111.0	118.4	96.3	
	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	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.94	0.77	1.00	1.00	0.94	0.76	1.00	
	Delta T	25	25	23	20	26	25	24	21	25	25	24	21	25	25	24	21	24	24	24	20	22	22	22	19	24	24	24	20	22	

PERFORMANCE DATA

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 installation instructions.

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

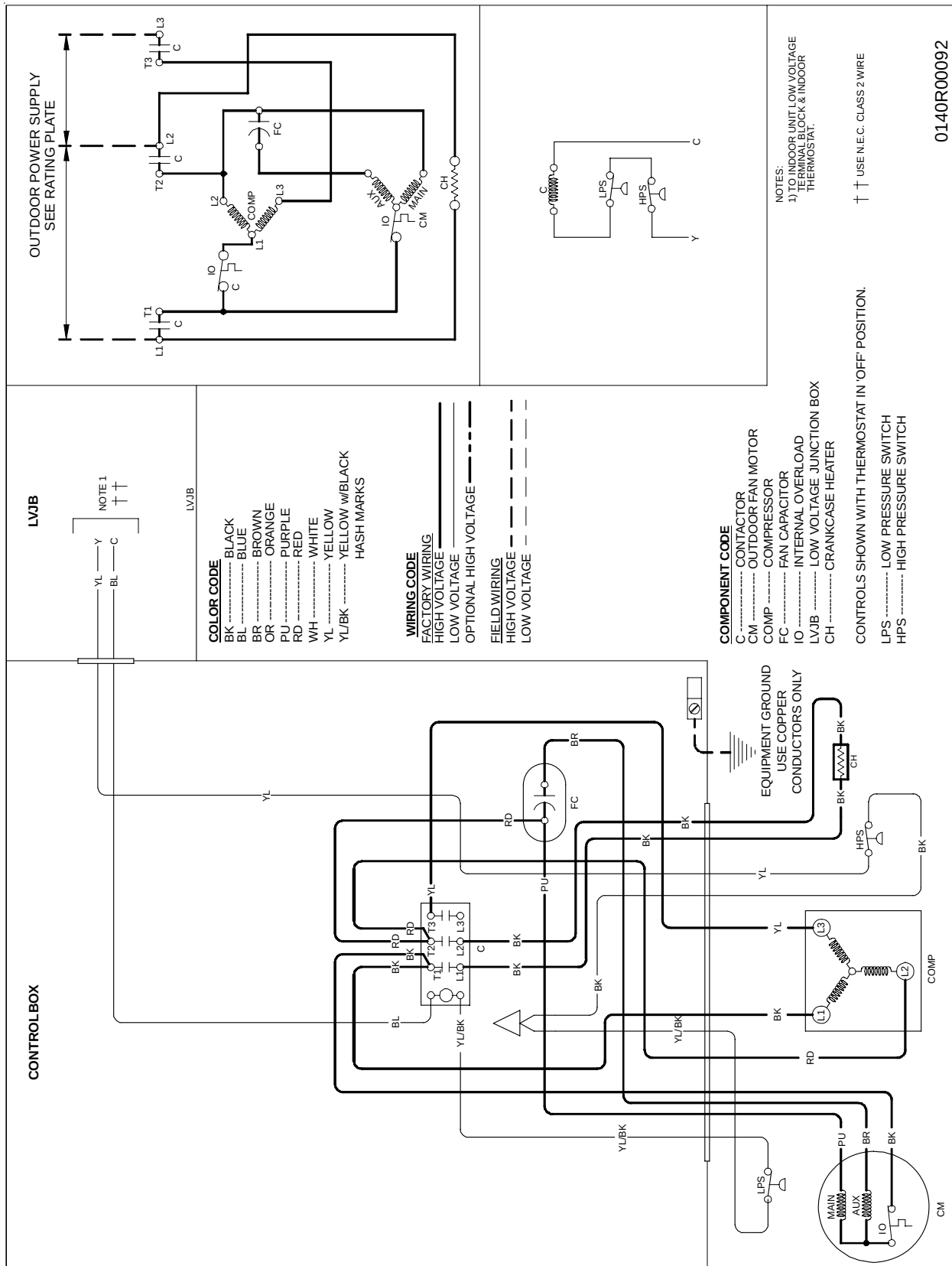
A properly operating unit should be within plus or minus **10 PSIG** of the **HI PR** shown.

A properly operating unit should be within plus or minus **5 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

GSC10090*-120*A*



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