

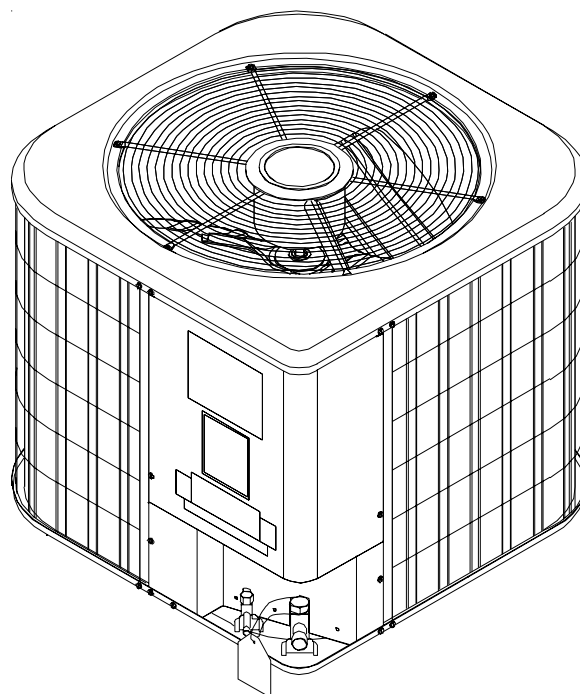
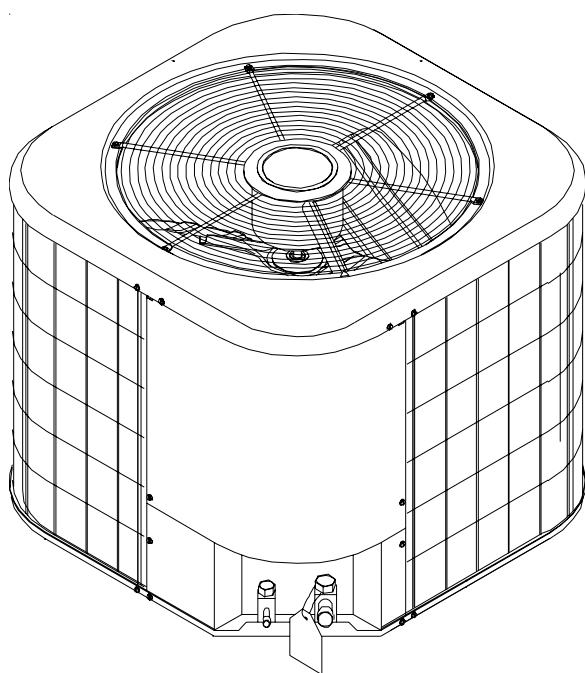
TECHNICAL INFORMATION MANUAL

Model and Manufacturing numbers listed in this manual.

VHA__C2 [A/B/C] Remote Heat Pumps

- Refer to Service Manual RS6200003 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.

MODEL	M/N
VHA18C2A	P1246301C
VHA24C2A	P1246302C
VHA30C2A	P1246303C
VHA36C2A	P1246401C
VHA42C2A	P1246402C
VHA48C2A	P1246403C
VHA60C2A	P1246404C
VHA18C2B	P1246304C
VHA24C2B	P1246305C
VHA30C2B	P1246306C
VHA36C2B	P1246405C
VHA42C2B	P1246406C
VHA48C2B	P1246407C
VHA18C2C	P1246308C
VHA24C2C	P1246309C
VHA30C2C	P1246310C
VHA36C2C	P1246408C
VHA42C2C	P1246409C
VHA48C2C	P1246410C
VHA60C2C	P1246411C



Heating & Air Conditioning
Amana
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This manual is to be used by qualified HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures performed by an unqualified person.

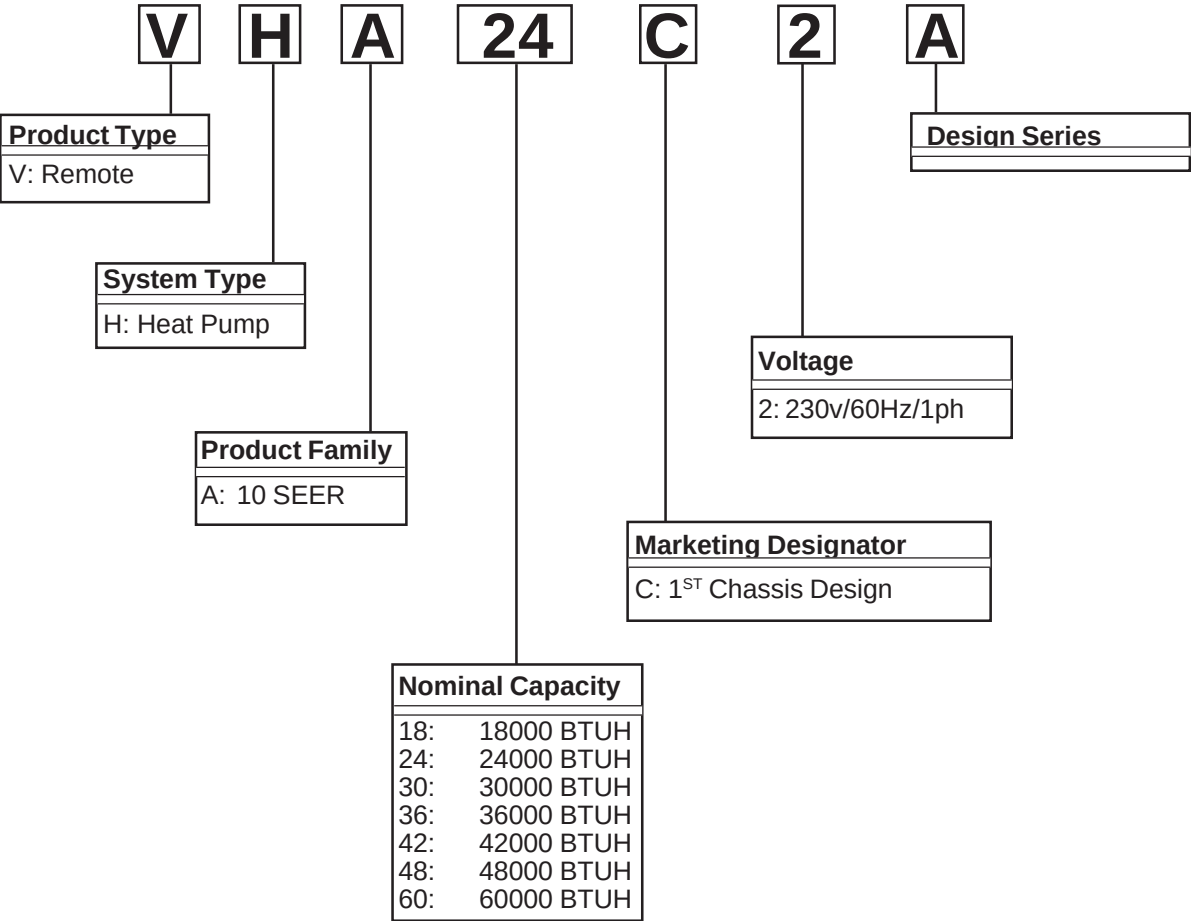
RT6211005 Rev. 1
June 2005

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PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. At which time engineering and manufacturing changes take place where interchangeability of components are affected, the manufacturing number will change.

It is very important to use the model and manufacturing numbers at all times when requesting service or parts information.



**WARNING**

IF REPAIRS ARE ATTEMPTED BY UNQUALIFIED PERSONS, DANGEROUS CONDITIONS (SUCH AS EXPOSURE TO ELECTRICAL SHOCK) MAY RESULT. THIS MAY CAUSE SERIOUS INJURY OR DEATH.

**CAUTION**

AMANA WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. IF YOU PERFORM SERVICE ON YOUR OWN PRODUCT, YOU ASSUME RESPONSIBILITY FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE WHICH MAY RESULT.

PRODUCT DESIGN

CONDENSING UNIT

The VHA Remote Heat Pumps are made in 1.5 through 5 ton sizes. They are designed for dual voltage (208-230VAC) single phase applications.

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 are of the sweat type for field piping with 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.

Refrigerant line sizes listed in the Specification section are for 50 feet or less. The maximum length of refrigerant lines is 50 feet with no more than a 20 foot vertical rise. In this case additional refrigerant must be added for the extra 35 feet of lines.

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.

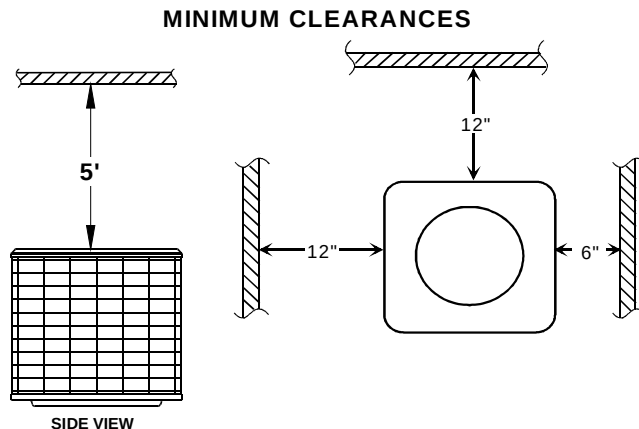
OUTDOOR UNIT

ORIFICE SIZING CHART

OUTDOOR UNIT	ORIFICE SIZE Chatleff ROK_A Kits
VHA18C2[A/B/C]	0.055
VHA24C2A	0.062
VHA30C2[A/B/C]	0.065
VHA36C2[A/B/C]	0.071
VHA42C2[A/B/C]	0.076
VHA48C2A	0.084
VHA60C2[A/C]	0.092

VHA24C2[B/C]	0.057
VHA48C2[B/C]	0.082

Note: Whenever mix-matching systems, the indoor orifice must be matched to the condensing unit for proper operation.



This unit is for outdoor installation only. Refer to minimum clearance 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.

Outdoor Unit	Footprint Square (in ²)	Unit Height (in ²)
VHA18C2[A/B/C]	22 1/2	25
VHA24C2[A/B/C]	22 1/2	25
VHA30C2[A/B/C]	22 1/2	31
VHA36C2[A/B/C]	29 1/2	29
VHA42C2[A/B/C]	29 1/2	33
VHA48C2[A/B/C]	29 1/2	33
VHA60C2[A/C]	29 1/2	33

CONDENSING UNIT SPECIFICATIONS

	VHA18C2A	VHA24C2A	VHA30C2A	VHA36C2A	VHA42C2A	VHA48C2A	VHA60C2A
Cooling Capacity, BTUH	18,000	24,000	30,000	36,000	42,000	48,000	60,000
Compressor							
R.L. Amps	9.0	11.5	14.1	16.7	17.9	19.2	26.0
L.R. Amps	48	60	73	86	118	118	150
Condenser Fan Motor							
Horsepower	1/6	1/6	1/6	1/4	1/4	1/4	1/4
R.L. Amps	1.0	1.0	1.0	1.5	1.5	1.5	1.5
L.R. Amps	1.8	1.8	1.8	3.3	3.3	3.3	3.3
Liquid Line, Inches O.D.	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Suction Line, Inches O.D.	5/8	3/4	3/4	3/4	7/8	7/8	1 1/8
Refrigerant Charge	77	83	101	127	138	160	167
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	208/230-60-1
Minimum Circuit Ampacity	12.2	15.4	18.6	21.8	23.9	25.5	34.0
Maximum Overcurrent Device	20	25	30	35	40	40	60
Electrical Conduit Size							
Power Supply	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	1/2 or 3/4
Low Voltage	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Approximate Shipping Weight	140	150	160	170	170	175	180

	VHA18C2B	VHA24C2B	VHA30C2B	VHA36C2B	VHA42C2B	VHA48C2B
Cooling Capacity, BTUH	19,000	23,200	28,200	35,000	39,500	40,000
Compressor						
R.L. Amps	9.4	9.8	13.72	14.87	17.95	21.79
L.R. Amps	49	56	75	96	103	131
Condenser Fan Motor						
Horsepower	1/6	1/6	1/6	1/4	1/4	1/4
R.L. Amps	1.0	1.0	1.0	1.5	1.5	1.5
L.R. Amps	1.8	1.8	1.8	3.3	3.3	3.3
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	7/8	7/8
Refrigerant Charge	85	85	95	145	145	145
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	12.7	13.3	18.15	20.09	23.9	28.74
Maximum Overcurrent Device	20	20	30	35	40	50
Electrical Conduit Size						
Power Supply	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
Low Voltage	1/2	1/2	1/2	1/2	1/2	1/2
Approximate Shipping Weight	140	142	150	170	175	175

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

CONDENSING UNIT SPECIFICATIONS

	VHA18C2C	VHA24C2C	VHA30C2C	VHA36C2C	VHA42C2C	VHA48C2C	VHA60C2C
Cooling Capacity, BTUH	19,000	23,200	28,200	35,000	39,500	40,000	60,000
Compressor							
R.L. Amps	9.4	9.8	13.72	14.87	17.95	18.3	26.0
L.R. Amps	49	56	75	96	103	102	150
Condenser Fan Motor							
Horsepower	1/6	1/6	1/6	1/4	1/4	1/4	1/4
R.L. Amps	1.0	1.0	1.0	1.5	1.5	1.5	1.5
L.R. Amps	1.8	1.8	1.8	3.3	3.3	3.3	3.3
Liquid Line, Inches O.D.	3/8	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	7/8	7/8	1 1/8
Refrigerant Charge	85	85	95	145	145	160	167
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	208/230-60-1
Minimum Circuit Ampacity	12.7	13.3	18.15	20.9	23.9	24.34	34.0
Maximum Overcurrent Device	20	20	30	35	40	40	60
Electrical Conduit Size							
Power Supply	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	1/2 or 3/4
Low Voltage	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Approximate Shipping Weight	140	142	150	170	175	175	180

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

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA18C2A /CCA24FCC/ BBA24A2A

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
70	675	MBh	18.3	19.0	20.8	-	17.9	18.6	20.3	-	17.5	18.1	19.8	-	17.0	17.7	19.4	-	16.2	16.8	18.4	-	15.0	15.5	17.0	-			
		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	0.47	-	0.81	0.68	0.47	-			
		Delta T	18	15	12	-	18	15	12	-	18	15	12	-	18	16	12	-	18	15	12	-	17	14	11	-			
		KW	1.49	1.52	1.56	-	1.60	1.63	1.68	-	1.70	1.73	1.79	-	1.78	1.82	1.88	-	1.86	1.90	1.96	-	1.92	1.96	2.03	-			
		AMPS	5.6	5.7	5.9	-	6.0	6.2	6.4	-	6.5	6.7	6.9	-	7.0	7.1	7.4	-	7.4	7.6	7.8	-	7.8	8.0	8.3	-			
		HI PR	143	154	162	-	160	173	182	-	182	196	207	-	208	223	236	-	234	251	265	-	258	278	293	-			
		LO PR	61	65	70	-	64	68	74	-	67	71	77	-	70	74	81	-	73	78	85	-	76	81	88	-			
	600	MBh	17.8	18.4	20.2	-	17.4	18.0	19.7	-	17.0	17.6	19.3	-	16.5	17.2	18.8	-	15.7	16.3	17.9	-	14.6	15.1	16.5	-			
		S/T	0.67	0.56	0.39	-	0.70	0.58	0.40	-	0.72	0.60	0.41	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.77	0.65	0.45	-			
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-			
		KW	1.48	1.51	1.55	-	1.59	1.62	1.67	-	1.68	1.72	1.77	-	1.77	1.81	1.87	-	1.84	1.88	1.94	-	1.91	1.95	2.01	-			
		AMPS	5.6	5.7	5.9	-	6.0	6.1	6.3	-	6.5	6.6	6.8	-	6.9	7.1	7.3	-	7.3	7.5	7.7	-	7.7	7.9	8.2	-			
		HI PR	141	152	161	-	159	171	180	-	181	194	205	-	206	221	234	-	231	249	263	-	256	275	290	-			
		LO PR	60	64	70	-	63	68	74	-	66	70	77	-	69	74	80	-	73	77	84	-	75	80	87	-			
	525	MBh	16.4	17.0	18.6	-	16.0	16.6	18.2	-	15.7	16.2	17.8	-	15.3	15.8	17.3	-	14.5	15.0	16.5	-	13.4	13.9	15.3	-			
		S/T	0.65	0.54	0.38	-	0.67	0.56	0.39	-	0.69	0.58	0.40	-	0.71	0.60	0.41	-	0.74	0.62	0.43	-	0.75	0.62	0.43	-			
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	13	-	19	16	12	-	18	15	12	-			
		KW	1.44	1.47	1.52	-	1.55	1.58	1.63	-	1.64	1.68	1.73	-	1.73	1.76	1.82	-	1.80	1.84	1.90	-	1.86	1.90	1.96	-			
		AMPS	5.4	5.5	5.7	-	5.8	6.0	6.1	-	6.3	6.4	6.7	-	6.7	6.9	7.1	-	7.1	7.3	7.5	-	7.5	7.7	8.0	-			
		HI PR	137	148	156	-	154	166	175	-	175	188	199	-	199	215	227	-	224	241	255	-	248	267	282	-			
		LO PR	58	62	68	-	62	65	71	-	64	68	74	-	67	71	78	-	70	75	82	-	73	77	85	-			

75	675	MBh	18.6	19.2	20.8	22.3	18.2	18.7	20.3	21.8	17.8	18.3	19.8	21.3	17.3	17.8	19.3	20.7	16.5	17.0	18.4	19.7	15.3	15.7	17.0	18.2
		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	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	15	11	19	18	14	10
		KW	1.50	1.53	1.58	1.63	1.61	1.65	1.70	1.75	1.71	1.75	1.80	1.86	1.80	1.84	1.90	1.96	1.87	1.91	1.98	2.04	1.94	1.98	2.05	2.11
		AMPS	5.6	5.8	6.0	6.2	6.1	6.2	6.4	6.7	6.6	6.7	7.0	7.2	7.0	7.2	7.4	7.7	7.5	7.6	7.9	8.2	7.9	8.1	8.3	8.6
		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
		LO PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	87	74	79	86	92	77	82	89	95
	600	MBh	18.1	18.6	20.2	21.6	17.7	18.2	19.7	21.1	17.3	17.8	19.2	20.6	16.8	17.3	18.8	20.1	16.0	16.5	17.8	19.1	14.8	15.2	16.5	17.7
		S/T	0.77	0.68	0.52	0.33	0.79	0.71	0.54	0.35	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.88	0.79	0.60	0.38
		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	1.49	1.52	1.56	1.61	1.60	1.63	1.68	1.74	1.70	1.73	1.79	1.85	1.78	1.82	1.88	1.94	1.86	1.90	1.96	2.03	1.92	1.96	2.03	2.10
		AMPS	5.6	5.7	5.9	6.1	6.0	6.2	6.4	6.6	6.5	6.7	6.9	7.1	7.0	7.1	7.4	7.6	7.4	7.6	7.8	8.1	7.8	8.0	8.3	8.6
		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	61	65	70	75	64	68	74	79	67	71	77	82	70	74	81	87	73	78	85	91	76	81	88	94
	525	MBh	16.7	17.2	18.6	20.0	16.3	16.8	18.2	19.5	15.9	16.4	17.7	19.0	15.5	16.0	17.3	18.6	14.8	15.2	16.4	17.7	13.7	14.1	15.2	16.4
		S/T	0.74	0.66	0.50	0.32	0.77	0.68	0.52	0.33	0.78	0.70	0.53	0.34	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.37	0.85	0.76	0.57	0.37
		Delta T	22	20	16	11	22	20	16	11	22	20	17	11	22	20	17	11	22	20	16	11	20	19	15	11
		KW	1.45	1.48	1.53	1.58	1.56	1.59	1.64	1.70	1.66	1.69	1.75	1.80	1.74	1.78	1.84	1.89	1.81	1.85	1.91	1.97	1.87	1.92	1.98	2.04
		AMPS	5.5	5.6	5.8	6.0	5.9	6.0	6.2	6.4	6.4	6.5	6.7	7.0	6.8	6.9	7.2	7.4	7.2	7.4	7.6	7.9	7.6	7.8	8.0	8.3
		HI PR	139	149	158	164	156	167	177	184	177	190	201	210	201	217	229	239	227	244	258	269	250	269	285	297
		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

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

VHA18C2A

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA18C2A /CCA24FCC/ BBA24A2A

			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
80	675	MBh	19.0	19.4	20.7	22.1	18.5	18.9	20.2	21.6	18.1	18.5	19.7	21.1	17.6	18.0	19.3	20.6	16.8	17.1	18.3	19.6	15.5	15.9	16.9	18.1
		S/T	0.88	0.83	0.67	0.50	0.91	0.86	0.70	0.52	0.94	0.88	0.71	0.53	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	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	20	18	14
		KW	1.51	1.54	1.59	1.64	1.62	1.66	1.71	1.77	1.72	1.76	1.82	1.88	1.81	1.85	1.91	1.98	1.89	1.93	1.99	2.06	1.95	2.00	2.06	2.13
		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	7.5	7.7	8.0	8.2	8.0	8.1	8.4	8.7
		HI PR	146	157	166	173	164	176	186	194	186	200	211	220	212	228	241	251	238	257	271	283	263	283	299	312
		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
	600	MBh	18.4	18.8	20.1	21.5	18.0	18.4	19.6	21.0	17.6	17.9	19.2	20.5	17.1	17.5	18.7	20.0	16.3	16.6	17.8	19.0	15.1	15.4	16.5	17.6
		S/T	0.84	0.79	0.64	0.48	0.87	0.82	0.66	0.50	0.89	0.84	0.68	0.51	0.92	0.86	0.70	0.53	0.96	0.90	0.73	0.55	0.96	0.90	0.74	0.55
		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	1.50	1.53	1.58	1.63	1.61	1.65	1.70	1.75	1.71	1.75	1.80	1.86	1.80	1.84	1.90	1.96	1.87	1.91	1.98	2.04	1.94	1.98	2.05	2.11
		AMPS	5.7	5.8	6.0	6.2	6.1	6.2	6.4	6.7	6.6	6.7	7.0	7.2	7.0	7.2	7.4	7.7	7.5	7.6	7.9	8.2	7.9	8.1	8.3	8.6
		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
		LO PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	87	74	79	86	92	77	82	89	95
	525	MBh	17.0	17.4	18.6	19.8	16.6	17.0	18.1	19.4	16.2	16.6	17.7	18.9	15.8	16.2	17.3	18.5	15.0	15.3	16.4	17.5	13.9	14.2	15.2	16.2
		S/T	0.81	0.76	0.62	0.46	0.84	0.79	0.64	0.48	0.86	0.81	0.66	0.49	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.93	0.87	0.71	0.53
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	25	24	20	16	24	23	20	16	23	22	19	15
		KW	1.46	1.49	1.54	1.59	1.57	1.61	1.66	1.71	1.67	1.71	1.76	1.82	1.75	1.79	1.85	1.91	1.83	1.87	1.93	1.99	1.89	1.93	1.99	2.06
		AMPS	5.5	5.6	5.8	6.0	5.9	6.1	6.3	6.5	6.4	6.6	6.8	7.0	6.8	7.0	7.2	7.5	7.3	7.4	7.7	8.0	7.7	7.9	8.1	8.4
		HI PR	140	151	159	166	157	169	179	186	179	192	203	212	203	219	231	241	229	246	260	271	253	272	287	300
		LO PR	59	63	69	74	63	67	73	78	65	69	76	81	69	73	80	85	72	76	83	89	74	79	86	92

85	675	MBh	19.3	19.7	20.6	22.0	18.8	19.2	20.1	21.5	18.4	18.8	19.6	21.0	18.0	18.3	19.2	20.4	17.1	17.4	18.2	19.4	15.8	16.1	16.9	18.0
		S/T	0.92	0.89	0.80	0.65	0.96	0.92	0.83	0.68	0.98	0.95	0.85	0.69	1.00	0.98	0.88	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.92	0.75
		Delta T	24	24	23	20	25	24	23	20	25	24	23	20	24	24	23	20	23	24	23	20	22	22	21	18
		KW	1.52	1.55	1.60	1.65	1.64	1.67	1.72	1.78	1.74	1.78	1.83	1.89	1.83	1.87	1.93	1.99	1.90	1.95	2.01	2.08	1.97	2.01	2.08	2.15
		AMPS	5.7	5.9	6.1	6.3	6.2	6.3	6.5	6.8	6.7	6.9	7.1	7.3	7.1	7.3	7.6	7.8	7.6	7.8	8.0	8.3	8.0	8.2	8.5	8.8
		HI PR	147	158	167	175	165	178	188	196	188	202	214	223	214	230	243	254	241	259	274	285	266	286	302	315
		LO PR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	80	88	93	78	83	91	97
	600	MBh	18.7	19.1	20.0	21.3	18.3	18.7	19.5	20.8	17.9	18.2	19.1	20.3	17.4	17.8	18.6	19.9	16.6	16.9	17.7	18.9	15.3	15.6	16.4	17.5
		S/T	0.88	0.85	0.77	0.62	0.91	0.88	0.79	0.64	0.94	0.90	0.81	0.66	0.97	0.93	0.84	0.68	1.00	0.97	0.87	0.71	1.00	0.98	0.88	0.71
		Delta T	25	25	23	20	26	25	24	21	26	25	24	21	26	25	24	21	25	25	24	20	24	23	22	19
		KW	1.51	1.54	1.59	1.64	1.62	1.66	1.71	1.77	1.72	1.76	1.82	1.88	1.81	1.85	1.91	1.98	1.89	1.93	1.99	2.06	1.95	2.00	2.06	2.13
		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	7.5	7.7	8.0	8.2	8.0	8.1	8.4	8.7
		HI PR	146	157	166	173	164	176	186	194	186	200	211	220	212	228	241	251	238	257	271	283	263	283	299	312
		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
	525	MBh	17.3	17.6	18.5	19.7	16.9	17.2	18.0	19.2	16.5	16.8	17.6	18.8	16.1	16.4	17.2	18.3	15.3	15.6	16.3	17.4	14.2	14.4	15.1	16.1
		S/T	0.85	0.82	0.74	0.60	0.88	0.85	0.77	0.62	0.90	0.87	0.79	0.64	0.93	0.90	0.81	0.66	0.97	0.93	0.84	0.68	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	26	25	24	21	24	24	22	19
		KW	1.48	1.51	1.55	1.60	1.59	1.62	1.67	1.72	1.68	1.72	1.77	1.83	1.77	1.81	1.87	1.93	1.84	1.88	1.94	2.01	1.91	1.95	2.01	2.08
		AMPS	5.6	5.7	5.9	6.1	6.0	6.1	6.3	6.5	6.5	6.6	6.8	7.1	6.9	7.1	7.3	7.6	7.3	7.5	7.7	8.0	7.7	7.9	8.2	8.5
		HI PR	141	152	161	168	159	171	180	188	180	194	205	214	206	221	234	244	231	249	263	274	255	275	290	303
		LO PR	60	64	70	74	63	67	74	78	66	70	77	82	69	74	80	86	73	77	84	90	75	80	87	93

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

VHA18C2A

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA18C2[B/C]/ CA*F025*2* /MBR800

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
70	675	MBh	17.4	18.0	19.7	-	17.0	17.6	19.3	-	16.6	17.2	18.8	-	16.2	16.8	18.4	-	15.4	15.9	17.4	-	14.2	14.7	16.2	-
		S/T	0.71	0.59	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	-
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-
		KW	1.53	1.56	1.61	-	1.64	1.67	1.73	-	1.74	1.78	1.83	-	1.83	1.87	1.93	-	1.90	1.95	2.01	-	1.97	2.01	2.08	-
		AMPS	5.9	6.0	6.2	-	6.3	6.5	6.7	-	6.9	7.0	7.3	-	7.3	7.5	7.7	-	7.8	8.0	8.2	-	8.2	8.4	8.7	-
		HI PR	143	153	162	-	160	172	182	-	182	196	207	-	207	223	236	-	233	251	265	-	258	277	293	-
		LO PR	58	61	67	-	61	65	71	-	63	67	73	-	66	71	77	-	70	74	81	-	72	77	84	-
	603	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	-
		S/T	0.68	0.57	0.39	-	0.71	0.59	0.41	-	0.72	0.61	0.42	-	0.75	0.62	0.43	-	0.78	0.65	0.45	-	0.78	0.65	0.45	-
		Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	14	11	-
		KW	1.52	1.55	1.60	-	1.63	1.67	1.72	-	1.73	1.77	1.82	-	1.82	1.86	1.92	-	1.89	1.94	2.00	-	1.96	2.00	2.07	-
		AMPS	5.9	6.0	6.2	-	6.3	6.5	6.7	-	6.8	7.0	7.2	-	7.3	7.4	7.7	-	7.7	7.9	8.2	-	8.2	8.4	8.6	-
		HI PR	142	152	161	-	159	171	181	-	181	195	205	-	206	222	234	-	232	249	263	-	256	275	291	-
		LO PR	57	61	66	-	60	64	70	-	63	67	73	-	66	70	77	-	69	74	80	-	72	76	83	-
	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	-
		S/T	0.66	0.55	0.38	-	0.68	0.57	0.39	-	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.76	0.63	0.44	-
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
		KW	1.48	1.51	1.56	-	1.59	1.63	1.68	-	1.69	1.73	1.78	-	1.78	1.81	1.87	-	1.85	1.89	1.95	-	1.91	1.95	2.02	-
		AMPS	5.7	5.8	6.0	-	6.1	6.3	6.5	-	6.6	6.8	7.0	-	7.1	7.2	7.5	-	7.5	7.7	7.9	-	7.9	8.1	8.4	-
		HI PR	137	148	156	-	154	166	175	-	175	189	199	-	200	215	227	-	225	242	255	-	248	267	282	-
		LO PR	55	59	64	-	59	62	68	-	61	65	71	-	64	68	74	-	67	71	78	-	69	74	81	-

75	675	MBh	17.7	18.2	19.7	21.1	17.3	17.8	19.2	20.7	16.9	17.4	18.8	20.2	16.4	16.9	18.3	19.7	15.6	16.1	17.4	18.7	14.5	14.9	16.1	17.3
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40
		Delta T	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	18	17	14	10
		KW	1.54	1.57	1.62	1.67	1.65	1.69	1.74	1.80	1.75	1.79	1.85	1.91	1.84	1.88	1.95	2.01	1.92	1.96	2.03	2.09	1.99	2.03	2.10	2.17
		AMPS	5.9	6.1	6.3	6.5	6.4	6.6	6.8	7.0	6.9	7.1	7.3	7.6	7.4	7.6	7.8	8.1	7.8	8.0	8.3	8.6	8.3	8.5	8.8	9.1
		HI PR	144	155	164	171	162	174	184	192	184	198	209	218	209	225	238	248	236	254	268	279	260	280	296	309
		LO PR	58	62	68	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	85	90
	603	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	0.78	0.69	0.52	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	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	1.53	1.56	1.61	1.66	1.64	1.68	1.73	1.79	1.75	1.78	1.84	1.90	1.83	1.87	1.93	2.00	1.91	1.95	2.01	2.08	1.98	2.02	2.08	2.15
		AMPS	5.9	6.0	6.2	6.5	6.4	6.5	6.7	7.0	6.9	7.0	7.3	7.5	7.3	7.5	7.8	8.0	7.8	8.0	8.2	8.5	8.2	8.4	8.7	9.0
		HI PR	143	154	163	170	161	173	182	190	183	196	207	216	208	224	236	246	234	252	266	277	258	278	294	306
		LO PR	58	61	67	71	61	65	71	76	63	68	74	78	67	71	77	82	70	74	81	86	72	77	84	89
	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	15.4	16.7	17.9	14.2	14.6	15.8	17.0	13.2	13.5	14.7	15.7
		S/T	0.75	0.67	0.51	0.33	0.77	0.69	0.52	0.34	0.79	0.71	0.54	0.35	0.82	0.73	0.56	0.36	0.85	0.76	0.58	0.37	0.86	0.77	0.58	0.37
		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	1.49	1.53	1.57	1.62	1.61	1.64	1.69	1.74	1.70	1.74	1.79	1.85	1.79	1.83	1.89	1.95	1.86	1.90	1.96	2.03	1.93	1.97	2.03	2.10
		AMPS	5.8	5.9	6.1	6.3	6.2	6.3	6.5	6.8	6.7	6.9	7.1	7.3	7.1	7.3	7.5	7.8	7.6	7.8	8.0	8.3	8.0	8.2	8.5	8.8
		HI PR	139	149	158	164	156	168	177	185	177	191	201	210	202	217	229	239	227	244	258	269	251	270	285	297
		LO PR	56	60	65	69	59	63	69	73	62	65	71	76	65	69	75	80	68	72	79	84	70	75	81	87

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

VHA18C2[B/C]

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA24C2A / CCA24FCC/ BBA24A2A

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
80	900	MBh	23.9	24.5	26.1	27.9	23.4	23.9	25.5	27.3	22.8	23.3	24.9	26.6	22.3	22.8	24.3	26.0	21.2	21.6	23.1	24.7	19.6	20.0	21.4	22.9
		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	1.00	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	15	22	21	18	15	22	21	18	15	23	21	19	15	22	21	18	15	20	20	17	14
		KW	1.98	2.02	2.09	2.15	2.13	2.18	2.25	2.32	2.27	2.32	2.39	2.47	2.39	2.44	2.52	2.60	2.49	2.54	2.62	2.71	2.57	2.63	2.72	2.81
		AMPS	7.5	7.7	8.0	8.3	8.1	8.3	8.6	8.9	8.8	9.0	9.3	9.7	9.4	9.7	10.0	10.3	10.0	10.3	10.6	11.0	10.6	10.9	11.2	11.7
		HI PR	157	169	178	186	176	189	200	209	200	215	228	237	228	245	259	270	257	276	292	304	283	305	322	336
		LO PR	63	66	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	80	88	93	78	83	91	97
	800	MBh	23.2	23.7	25.4	27.1	22.7	23.2	24.8	26.5	22.2	22.6	24.2	25.9	21.6	22.1	23.6	25.2	20.5	21.0	22.4	24.0	19.0	19.4	20.8	22.2
		S/T	0.85	0.80	0.65	0.49	0.88	0.83	0.68	0.50	0.91	0.85	0.69	0.52	0.94	0.88	0.72	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	1.97	2.01	2.07	2.14	2.12	2.16	2.23	2.30	2.25	2.30	2.37	2.45	2.37	2.42	2.50	2.58	2.47	2.52	2.60	2.69	2.55	2.61	2.69	2.79
		AMPS	7.5	7.6	7.9	8.2	8.1	8.3	8.5	8.8	8.7	9.0	9.3	9.6	9.3	9.6	9.9	10.2	9.9	10.2	10.5	10.9	10.5	10.8	11.1	11.6
		HI PR	155	167	177	184	174	188	198	207	198	213	225	235	226	243	257	268	254	273	289	301	281	302	319	333
		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
	700	MBh	21.4	21.9	23.4	25.0	21.0	21.4	22.9	24.5	20.5	20.9	22.3	23.9	20.0	20.4	21.8	23.3	19.0	19.4	20.7	22.1	17.6	17.9	19.2	20.5
		S/T	0.82	0.77	0.63	0.47	0.85	0.80	0.65	0.49	0.87	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.94	0.88	0.72	0.53	0.95	0.89	0.72	0.54
		Delta T	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	1.92	1.96	2.02	2.09	2.07	2.11	2.18	2.25	2.19	2.24	2.31	2.39	2.31	2.36	2.43	2.52	2.40	2.46	2.54	2.62	2.49	2.54	2.63	2.71
		AMPS	7.3	7.4	7.7	8.0	7.8	8.0	8.3	8.6	8.5	8.7	9.0	9.3	9.1	9.3	9.6	10.0	9.7	9.9	10.2	10.6	10.2	10.5	10.8	11.2
		HI PR	151	162	171	179	169	182	192	200	192	207	219	228	219	236	249	260	246	265	280	292	272	293	309	323
		LO PR	60	64	70	74	63	67	74	78	66	70	77	82	69	74	80	86	73	77	84	90	75	80	87	93

85	900	MBh	24.4	24.8	26.0	27.7	23.8	24.2	25.4	27.1	23.2	23.7	24.8	26.4	22.7	23.1	24.2	25.8	21.5	21.9	23.0	24.5	19.9	20.3	21.3	22.7
		S/T	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.96	0.87	0.70	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	22	19	24	23	22	19	24	23	22	19	23	23	22	19	22	22	22	19	20	21	20	18
		KW	2.00	2.04	2.10	2.17	2.15	2.20	2.27	2.34	2.29	2.34	2.41	2.49	2.41	2.46	2.54	2.62	2.51	2.56	2.65	2.74	2.59	2.65	2.74	2.83
		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	9.7	10.1	10.4	10.1	10.4	10.7	11.1	10.7	11.0	11.3	11.8
		HI PR	158	171	180	188	178	191	202	211	202	218	230	240	230	248	262	273	259	279	294	307	286	308	325	339
		LO PR	63	67	73	78	67	71	77	82	69	74	81	86	73	77	85	90	76	81	89	94	79	84	92	98
	800	MBh	23.6	24.1	25.2	26.9	23.1	23.5	24.7	26.3	22.5	23.0	24.1	25.7	22.0	22.4	23.5	25.1	20.9	21.3	22.3	23.8	19.4	19.7	20.7	22.0
		S/T	0.90	0.86	0.78	0.63	0.93	0.90	0.81	0.66	0.95	0.92	0.83	0.67	0.98	0.95	0.86	0.69	1.00	0.98	0.89	0.72	1.00	0.99	0.89	0.73
		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
		KW	1.98	2.02	2.09	2.15	2.13	2.18	2.25	2.32	2.27	2.32	2.39	2.47	2.39	2.44	2.52	2.60	2.49	2.54	2.62	2.71	2.57	2.63	2.72	2.81
		AMPS	7.5	7.7	8.0	8.3	8.1	8.3	8.6	8.9	8.8	9.0	9.3	9.7	9.4	9.7	10.0	10.3	10.0	10.3	10.6	11.0	10.6	10.9	11.2	11.7
		HI PR	157	169	178	186	176	189	200	209	200	215	228	237	228	245	259	270	257	276	292	304	283	305	322	336
		LO PR	63	66	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	80	88	93	78	83	91	97
	700	MBh	21.8	22.2	23.3	24.9	21.3	21.7	22.8	24.3	20.8	21.2	22.2	23.7	20.3	20.7	21.7	23.1	19.3	19.7	20.6	22.0	17.9	18.2	19.1	20.3
		S/T	0.86	0.83	0.75	0.61	0.89	0.86	0.78	0.63	0.92	0.89	0.80	0.65	0.95	0.91	0.82	0.67	0.98	0.95	0.86	0.69	0.99	0.96	0.86	0.70
		Delta T	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	25	24	23	20	23	23	22	19
		KW	1.94	1.98	2.04	2.10	2.08	2.13	2.19	2.27	2.21	2.26	2.33	2.41	2.33	2.38	2.45	2.54	2.42	2.48	2.56	2.64	2.51	2.56	2.65	2.74
		AMPS	7.3	7.5	7.7	8.0	7.9	8.1	8.4	8.7	8.6	8.8	9.1	9.4	9.2	9.4	9.7	10.1	9.7	10.0	10.3	10.7	10.3	10.6	10.9	11.3
		HI PR	152	164	173	180	171	184	194	202	194	209	221	230	221	238	251	262	249	268	283	295	275	296	312	326
		LO PR	61	65	70	75	64	68	74	79	67	71	77	82	70	74	81	86	73	78	85	91	76	81	88	94

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

VHA18C2[B/C]

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA24C2A / CCA24FCC/ BBA24A2A

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
70	900	MBh	23.1	24.0	26.3	-	22.6	23.4	25.7	-	22.1	22.9	25.0	-	21.5	22.3	24.4	-	20.4	21.2	23.2	-	18.9	19.6	21.5	-
		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	1.95	1.99	2.05	-	2.10	2.14	2.21	-	2.23	2.28	2.35	-	2.35	2.40	2.48	-	2.44	2.50	2.58	-	2.53	2.59	2.67	-
		AMPS	7.4	7.6	7.8	-	8.0	8.2	8.4	-	8.7	8.9	9.2	-	9.3	9.5	9.8	-	9.8	10.1	10.4	-	10.4	10.7	11.0	-
		HI PR	154	165	175	-	173	186	196	-	196	211	223	-	224	241	254	-	251	271	286	-	278	299	316	-
		LO PR	61	65	71	-	65	69	75	-	67	72	78	-	71	75	82	-	74	79	86	-	77	81	89	-
	800	MBh	22.5	23.3	25.5	-	21.9	22.7	24.9	-	21.4	22.2	24.3	-	20.9	21.6	23.7	-	19.8	20.6	22.5	-	18.4	19.1	20.9	-
		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	-	0.79	0.66	0.45	-
		Delta T	18	15	12	-	18	15	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		KW	1.94	1.98	2.04	-	2.08	2.13	2.19	-	2.21	2.26	2.33	-	2.33	2.38	2.46	-	2.42	2.48	2.56	-	2.51	2.56	2.65	-
		AMPS	7.3	7.5	7.8	-	7.9	8.1	8.4	-	8.6	8.8	9.1	-	9.2	9.4	9.7	-	9.8	10.0	10.3	-	10.3	10.6	10.9	-
		HI PR	152	164	173	-	171	184	194	-	194	209	221	-	221	238	251	-	249	268	283	-	275	296	313	-
		LO PR	61	65	70	-	64	68	74	-	67	71	77	-	70	74	81	-	73	78	85	-	76	81	88	-
	700	MBh	20.7	21.5	23.5	-	20.2	21.0	23.0	-	19.8	20.5	22.4	-	19.3	20.0	21.9	-	18.3	19.0	20.8	-	17.0	17.6	19.3	-
		S/T	0.66	0.55	0.38	-	0.68	0.57	0.40	-	0.70	0.59	0.41	-	0.72	0.61	0.42	-	0.75	0.63	0.44	-	0.76	0.63	0.44	-
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	1.89	1.93	1.99	-	2.03	2.08	2.14	-	2.16	2.21	2.28	-	2.27	2.32	2.39	-	2.36	2.42	2.50	-	2.45	2.50	2.58	-
		AMPS	7.1	7.3	7.5	-	7.7	7.9	8.1	-	8.4	8.6	8.8	-	8.9	9.1	9.4	-	9.5	9.7	10.0	-	10.0	10.3	10.6	-
		HI PR	148	159	168	-	166	178	188	-	188	203	214	-	215	231	244	-	241	260	274	-	267	287	303	-
		LO PR	59	63	68	-	62	66	72	-	65	69	75	-	68	72	79	-	71	76	83	-	74	78	85	-

75	900	MBh	23.5	24.2	26.2	28.1	23.0	23.7	25.6	27.5	22.4	23.1	25.0	26.8	21.9	22.5	24.4	26.2	20.8	21.4	23.2	24.9	19.3	19.8	21.5	23.0
		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	0.94	0.84	0.63	0.41
		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	1.97	2.01	2.07	2.14	2.12	2.16	2.23	2.30	2.25	2.30	2.37	2.45	2.37	2.42	2.50	2.58	2.47	2.52	2.60	2.69	2.55	2.61	2.69	2.79
		AMPS	7.5	7.6	7.9	8.2	8.1	8.3	8.5	8.8	8.7	9.0	9.2	9.6	9.3	9.6	9.9	10.2	9.9	10.2	10.5	10.9	10.5	10.8	11.1	11.6
		HI PR	155	167	177	184	174	188	198	207	198	213	225	235	226	243	257	268	254	273	289	301	281	302	319	333
		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
	800	MBh	22.8	23.5	25.4	27.3	22.3	23.0	24.9	26.7	21.8	22.4	24.3	26.0	21.2	21.9	23.7	25.4	20.2	20.8	22.5	24.1	18.7	19.2	20.8	22.4
		S/T	0.78	0.70	0.53	0.34	0.81	0.72	0.55	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.89	0.79	0.60	0.39	0.89	0.80	0.61	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	1.95	1.99	2.05	2.12	2.10	2.14	2.21	2.28	2.23	2.28	2.35	2.43	2.35	2.40	2.48	2.56	2.44	2.50	2.58	2.67	2.53	2.59	2.67	2.76
		AMPS	7.4	7.6	7.8	8.1	8.0	8.2	8.4	8.8	8.7	8.9	9.2	9.5	9.3	9.5	9.8	10.2	9.8	10.1	10.4	10.8	10.4	10.7	11.0	11.4
		HI PR	154	166	175	182	173	186	196	205	196	211	223	233	224	241	254	265	251	271	286	298	278	299	316	329
		LO PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	87	74	79	86	92	77	81	89	95
	700	MBh	21.1	21.7	23.5	25.2	20.6	21.2	22.9	24.6	20.1	20.7	22.4	24.0	19.6	20.2	21.8	23.4	18.6	19.2	20.8	22.3	17.3	17.8	19.2	20.6
		S/T	0.75	0.67	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.86	0.77	0.58	0.38
		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	1.91	1.95	2.01	2.07	2.05	2.09	2.16	2.23	2.18	2.22	2.29	2.37	2.29	2.34	2.41	2.49	2.38	2.44	2.52	2.60	2.47	2.52	2.60	2.69
		AMPS	7.2	7.4	7.6	7.9	7.8	8.0	8.2	8.5	8.4	8.6	8.9	9.2	9.0	9.2	9.5	9.9	9.6	9.8	10.1	10.5	10.1	10.4	10.7	11.1
		HI PR	149	161	170	177	167	180	190	198	190	205	216	226	217	233	246	257	244	263	277	289	270	290	306	319
		LO PR	59	63	69	74	63	67	73	78	65	69	76	81	69	73	80	85	72	76	83	89	74	79	86	92

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA24C2[B/C] /CA*F025*2*/ MBR800

			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
80	900	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	0.93	0.87	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	0.58	1.00	1.00	0.81	0.61	1.00	1.00	0.82	0.61
		Delta T	23	22	19	15	23	22	20	16	24	23	20	16	23	23	20	16	22	22	19	16	20	21	18	15
		KW	2.08	2.12	2.18	2.25	2.23	2.27	2.34	2.42	2.36	2.41	2.49	2.56	2.48	2.53	2.61	2.69	2.58	2.63	2.72	2.81	2.67	2.72	2.81	2.90
		AMPS	7.5	7.7	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	10.5	10.9	10.5	10.8	11.2	11.6
		HI PR	165	178	188	196	185	199	211	220	211	227	239	250	240	258	273	284	270	291	307	320	298	321	339	354
		LO PR	61	65	71	76	65	69	75	80	67	71	78	83	70	75	82	87	74	79	86	91	76	81	89	94
	800	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	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.95	0.89	0.72	0.54	0.98	0.92	0.74	0.56	1.00	0.95	0.77	0.58	1.00	0.96	0.78	0.58
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	25	24	21	16	24	23	20	16	22	22	19	15
		KW	2.06	2.10	2.17	2.23	2.21	2.26	2.33	2.40	2.34	2.39	2.47	2.54	2.46	2.51	2.59	2.67	2.56	2.61	2.70	2.78	2.64	2.70	2.79	2.88
		AMPS	7.4	7.6	7.8	8.1	8.0	8.2	8.5	8.8	8.7	8.9	9.2	9.5	9.3	9.5	9.8	10.2	9.9	10.1	10.4	10.8	10.4	10.7	11.1	11.5
		HI PR	163	176	186	194	183	197	208	217	209	224	237	247	238	256	270	282	267	288	304	317	295	318	336	350
		LO PR	60	64	70	75	64	68	74	79	66	71	77	82	70	74	81	86	73	78	85	90	76	80	88	94
	700	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	0.86	0.80	0.65	0.49	0.89	0.83	0.68	0.51	0.91	0.85	0.70	0.52	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	0.98	0.92	0.75	0.56
		Delta T	25	24	20	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	16	23	22	19	15
		KW	2.02	2.06	2.12	2.18	2.16	2.20	2.27	2.34	2.29	2.34	2.41	2.48	2.40	2.45	2.53	2.61	2.50	2.55	2.63	2.71	2.58	2.64	2.72	2.81
		AMPS	7.2	7.4	7.6	7.9	7.8	8.0	8.2	8.5	8.5	8.7	8.9	9.3	9.0	9.2	9.5	9.9	9.6	9.8	10.1	10.5	10.2	10.4	10.7	11.2
		HI PR	159	171	180	188	178	191	202	211	202	218	230	240	230	248	262	273	259	279	295	307	286	308	326	340
		LO PR	59	62	68	73	62	66	72	77	64	69	75	80	68	72	79	84	71	75	82	88	73	78	85	91

85	900	MBh	24.8	25.2	26.4	28.2	24.2	24.7	25.8	27.6	23.6	24.1	25.2	26.9	23.0	23.5	24.6	26.2	21.9	22.3	23.4	24.9	20.3	20.7	21.6	23.1
		S/T	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.79
		Delta T	25	24	23	20	25	25	23	20	24	25	23	20	24	24	23	20	22	23	23	20	21	21	22	19
		KW	2.09	2.13	2.20	2.27	2.25	2.29	2.36	2.43	2.38	2.43	2.50	2.58	2.50	2.55	2.63	2.72	2.60	2.65	2.74	2.83	2.69	2.74	2.83	2.92
		AMPS	7.5	7.7	8.0	8.3	8.1	8.3	8.6	8.9	8.8	9.1	9.4	9.7	9.4	9.7	10.0	10.4	10.0	10.3	10.6	11.0	10.6	10.9	11.3	11.7
		HI PR	167	179	189	198	187	201	213	222	213	229	242	252	242	261	275	287	273	293	310	323	301	324	342	357
		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
	800	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	0.93	0.90	0.81	0.66	0.97	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.76
		Delta T	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21	24	25	24	21	23	23	23	19
		KW	2.08	2.12	2.18	2.25	2.23	2.27	2.34	2.42	2.36	2.41	2.49	2.56	2.48	2.53	2.61	2.69	2.58	2.63	2.72	2.81	2.67	2.72	2.81	2.90
		AMPS	7.5	7.7	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	10.5	10.9	10.5	10.8	11.2	11.6
		HI PR	165	178	188	196	185	199	211	220	211	227	239	250	240	258	273	284	270	291	307	320	298	321	339	354
		LO PR	61	65	71	76	65	69	75	80	67	71	78	83	70	75	82	87	74	79	86	91	76	81	89	94
	700	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	0.90	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	26	26	24	21	27	26	25	21	27	26	25	21	27	26	25	22	26	26	25	21	24	24	23	20
		KW	2.03	2.07	2.13	2.20	2.18	2.22	2.29	2.36	2.31	2.35	2.43	2.50	2.42	2.47	2.55	2.63	2.52	2.57	2.65	2.74	2.60	2.66	2.74	2.83
		AMPS	7.3	7.5	7.7	8.0	7.9	8.0	8.3	8.6	8.5	8.7	9.0	9.3	9.1	9.3	9.6	10.0	9.7	9.9	10.2	10.6	10.2	10.5	10.8	11.3
		HI PR	160	172	182	190	180	193	204	213	204	220	232	242	233	250	265	276	262	282	298	310	289	311	329	343
		LO PR	59	63	69	73	63	67	73	77	65	69	76	80	68	73	79	85	72	76	83	89	74	79	86	92

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

VHA24C2A

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA24C2[B/C] /CA*F025*2*/ MBR800

			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
IDB*	Airflow																									
70	900	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	-
		S/T	0.75	0.62	0.43	-	0.78	0.65	0.45	-	0.80	0.66	0.46	-	0.82	0.69	0.47	-	0.85	0.71	0.49	-	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	-
		KW	2.05	2.09	2.15	-	2.19	2.24	2.31	-	2.32	2.37	2.45	-	2.44	2.49	2.57	-	2.54	2.59	2.67	-	2.62	2.68	2.76	-
		AMPS	7.3	7.5	7.8	-	7.9	8.1	8.4	-	8.6	8.8	9.1	-	9.2	9.4	9.7	-	9.8	10.0	10.3	-	10.3	10.6	10.9	-
		HI PR	162	174	184	-	182	195	206	-	206	222	235	-	235	253	267	-	265	285	301	-	292	315	332	-
	LO PR	60	64	70	-	63	67	73	-	66	70	76	-	69	73	80	-	72	77	84	-	75	80	87	-	
	800	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	-
		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	-
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	17	13	-	19	16	12	-	18	15	12	-
		KW	2.03	2.07	2.13	-	2.18	2.22	2.29	-	2.31	2.35	2.43	-	2.42	2.47	2.55	-	2.52	2.57	2.65	-	2.60	2.66	2.74	-
		AMPS	7.3	7.5	7.7	-	7.9	8.0	8.3	-	8.5	8.7	9.0	-	9.1	9.3	9.6	-	9.7	9.9	10.2	-	10.3	10.5	10.8	-
		HI PR	160	172	182	-	180	193	204	-	204	220	232	-	233	251	265	-	262	282	298	-	289	311	329	-
	LO PR	59	63	69	-	63	67	73	-	65	69	76	-	68	73	79	-	72	76	83	-	74	79	86	-	
	700	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	-
		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	19	16	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	15	12	-
		KW	1.99	2.02	2.08	-	2.13	2.17	2.24	-	2.25	2.30	2.37	-	2.36	2.41	2.49	-	2.46	2.51	2.59	-	2.54	2.59	2.67	-
		AMPS	7.1	7.3	7.5	-	7.7	7.8	8.1	-	8.3	8.5	8.8	-	8.9	9.1	9.4	-	9.4	9.6	10.0	-	10.0	10.2	10.5	-
		HI PR	155	167	177	-	174	188	198	-	198	213	225	-	226	243	257	-	254	273	289	-	281	302	319	-
	LO PR	57	61	67	-	61	65	71	-	63	67	73	-	66	71	77	-	69	74	81	-	72	76	83	-	

75	900	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	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.90	0.81	0.61	0.39	0.93	0.83	0.63	0.41	0.97	0.87	0.66	0.42	0.98	0.87	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	2.06	2.10	2.17	2.23	2.21	2.26	2.32	2.40	2.34	2.39	2.47	2.54	2.46	2.51	2.59	2.67	2.56	2.61	2.70	2.78	2.64	2.70	2.79	2.88
		AMPS	7.4	7.6	7.8	8.1	8.0	8.2	8.5	8.8	8.7	8.9	9.2	9.5	9.3	9.5	9.8	10.2	9.9	10.1	10.4	10.8	10.4	10.7	11.1	11.5
		HI PR	163	176	186	194	183	197	208	217	209	224	237	247	238	256	270	282	267	288	304	317	295	318	336	350
		LO PR	60	64	70	75	64	68	74	79	66	71	77	82	70	74	81	86	73	78	85	90	76	80	88	94
	800	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	0.81	0.73	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	0.63	0.40	0.93	0.83	0.63	0.41
		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	2.05	2.09	2.15	2.21	2.19	2.24	2.31	2.38	2.32	2.37	2.45	2.52	2.44	2.49	2.57	2.65	2.54	2.59	2.67	2.76	2.62	2.68	2.76	2.85
		AMPS	7.4	7.5	7.8	8.0	7.9	8.1	8.4	8.7	8.6	8.8	9.1	9.4	9.2	9.4	9.7	10.1	9.8	10.0	10.3	10.7	10.3	10.6	11.0	11.4
		HI PR	162	174	184	192	182	195	206	215	207	222	235	245	235	253	267	279	265	285	301	314	292	315	332	347
		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
	700	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	0.78	0.70	0.53	0.34	0.81	0.72	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	22	20	17	11	22	21	17	12	22	21	17	12	22	21	17	12	22	20	17	12	21	19	16	11
		KW	2.00	2.04	2.10	2.16	2.14	2.19	2.25	2.32	2.27	2.32	2.39	2.46	2.38	2.43	2.51	2.59	2.48	2.53	2.61	2.69	2.56	2.61	2.70	2.78
		AMPS	7.2	7.3	7.6	7.8	7.7	7.9	8.2	8.5	8.4	8.6	8.9	9.2	8.9	9.2	9.5	9.8	9.5	9.7	10.1	10.4	10.1	10.3	10.6	11.0
		HI PR	157	169	178	186	176	190	200	209	200	216	228	237	228	246	259	270	257	276	292	304	284	305	322	336
		LO PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA24C2[B/C] /CA*F025*2*/ MBR800

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
80	900	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	0.93	0.87	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	0.58	1.00	1.00	0.81	0.61	1.00	1.00	0.82	0.61
		Delta T	23	22	19	15	23	22	20	16	24	23	20	16	23	23	20	16	22	22	19	16	20	21	18	15
		KW	2.08	2.12	2.18	2.25	2.23	2.27	2.34	2.42	2.36	2.41	2.49	2.56	2.48	2.53	2.61	2.69	2.58	2.63	2.72	2.81	2.67	2.72	2.81	2.90
		AMPS	7.5	7.7	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	10.5	10.9	10.5	10.8	11.2	11.6
		HI PR	165	178	188	196	185	199	211	220	211	227	239	250	240	258	273	284	270	291	307	320	298	321	339	354
		LO PR	61	65	71	76	65	69	75	80	67	71	78	83	70	75	82	87	74	79	86	91	76	81	89	94
	800	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	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.95	0.89	0.72	0.54	0.98	0.92	0.74	0.56	1.00	0.95	0.77	0.58	1.00	0.96	0.78	0.58
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	25	24	21	16	24	23	20	16	22	22	19	15
		KW	2.06	2.10	2.17	2.23	2.21	2.26	2.33	2.40	2.34	2.39	2.47	2.54	2.46	2.51	2.59	2.67	2.56	2.61	2.70	2.78	2.64	2.70	2.79	2.88
		AMPS	7.4	7.6	7.8	8.1	8.0	8.2	8.5	8.8	8.7	8.9	9.2	9.5	9.3	9.5	9.8	10.2	9.9	10.1	10.4	10.8	10.4	10.7	11.1	11.5
		HI PR	163	176	186	194	183	197	208	217	209	224	237	247	238	256	270	282	267	288	304	317	295	318	336	350
		LO PR	60	64	70	75	64	68	74	79	66	71	77	82	70	74	81	86	73	78	85	90	76	80	88	94
	700	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	0.86	0.80	0.65	0.49	0.89	0.83	0.68	0.51	0.91	0.85	0.70	0.52	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	0.98	0.92	0.75	0.56
		Delta T	25	24	20	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	16	23	22	19	15
		KW	2.02	2.06	2.12	2.18	2.16	2.20	2.27	2.34	2.29	2.34	2.41	2.48	2.40	2.45	2.53	2.61	2.50	2.55	2.63	2.71	2.58	2.64	2.72	2.81
		AMPS	7.2	7.4	7.6	7.9	7.8	8.0	8.2	8.5	8.5	8.7	8.9	9.3	9.0	9.2	9.5	9.9	9.6	9.8	10.1	10.5	10.2	10.4	10.7	11.2
		HI PR	159	171	180	188	178	191	202	211	202	218	230	240	230	248	262	273	259	279	295	307	286	308	326	340
		LO PR	59	62	68	73	62	66	72	77	64	69	75	80	68	72	79	84	71	75	82	88	73	78	85	91

85	900	MBh	24.8	25.2	26.4	28.2	24.2	24.7	25.8	27.6	23.6	24.1	25.2	26.9	23.0	23.5	24.6	26.2	21.9	22.3	23.4	24.9	20.3	20.7	21.6	23.1
		S/T	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.79
		Delta T	25	24	23	20	25	25	23	20	24	25	23	20	24	24	23	20	22	23	23	20	21	21	22	19
		KW	2.09	2.13	2.20	2.27	2.25	2.29	2.36	2.43	2.38	2.43	2.50	2.58	2.50	2.55	2.63	2.72	2.60	2.65	2.74	2.83	2.69	2.74	2.83	2.92
		AMPS	7.5	7.7	8.0	8.3	8.1	8.3	8.6	8.9	8.8	9.1	9.4	9.7	9.4	9.7	10.0	10.4	10.0	10.3	10.6	11.0	10.6	10.9	11.3	11.7
		HI PR	167	179	189	198	187	201	213	222	213	229	242	252	242	261	275	287	273	293	310	323	301	324	342	357
		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
	800	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	0.93	0.90	0.81	0.66	0.97	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.76
		Delta T	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21	24	25	24	21	23	23	23	19
		KW	2.08	2.12	2.18	2.25	2.23	2.27	2.34	2.42	2.36	2.41	2.49	2.56	2.48	2.53	2.61	2.69	2.58	2.63	2.72	2.81	2.67	2.72	2.81	2.90
		AMPS	7.5	7.7	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	10.5	10.9	10.5	10.8	11.2	11.6
		HI PR	165	178	188	196	185	199	211	220	211	227	239	250	240	258	273	284	270	291	307	320	298	321	339	354
		LO PR	61	65	71	76	65	69	75	80	67	71	78	83	70	75	82	87	74	79	86	91	76	81	89	94
	700	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	0.90	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	26	26	24	21	27	26	25	21	27	26	25	21	27	26	25	22	26	26	25	21	24	24	23	20
		KW	2.03	2.07	2.13	2.20	2.18	2.22	2.29	2.36	2.31	2.35	2.43	2.50	2.42	2.47	2.55	2.63	2.52	2.57	2.65	2.74	2.60	2.66	2.74	2.83
		AMPS	7.3	7.5	7.7	8.0	7.9	8.0	8.3	8.6	8.5	8.7	9.0	9.3	9.1	9.3	9.6	10.0	9.7	9.9	10.2	10.6	10.2	10.5	10.8	11.3
		HI PR	160	172	182	190	180	193	204	213	204	220	232	242	233	250	265	276	262	282	298	310	289	311	329	343
		LO PR	59	63	69	73	63	67	73	77	65	69	76	80	68	73	79	85	72	76	83	89	74	79	86	92

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

VHA24C2[B/C]

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA30C2A / CCA36FCC / BBA36A2A

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
70	1125	MBh	28.9	30.0	32.8	-	28.2	29.3	32.1	-	27.6	28.6	31.3	-	26.9	27.9	30.5	-	25.5	26.5	29.0	-	23.7	24.5	26.9	-
		S/T	0.75	0.62	0.43	-	0.78	0.65	0.45	-	0.80	0.66	0.46	-	0.82	0.69	0.47	-	0.85	0.71	0.49	-	0.86	0.72	0.50	-
		Delta T	18	15	12	-	18	15	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		KW	2.45	2.50	2.58	-	2.64	2.69	2.78	-	2.80	2.86	2.96	-	2.95	3.01	3.11	-	3.07	3.14	3.24	-	3.18	3.25	3.36	-
		AMPS	9.0	9.2	9.5	-	9.7	10.0	10.3	-	10.6	10.9	11.2	-	11.3	11.6	12.0	-	12.1	12.4	12.8	-	12.8	13.1	13.6	-
		HI PR	168	180	190	-	188	202	214	-	214	230	243	-	244	262	277	-	274	295	311	-	303	326	344	-
		LO PR	63	67	73	-	67	71	77	-	69	74	80	-	73	77	85	-	76	81	89	-	79	84	92	-
	1000	MBh	28.1	29.1	31.9	-	27.4	28.4	31.1	-	26.8	27.7	30.4	-	26.1	27.1	29.6	-	24.8	25.7	28.2	-	23.0	23.8	26.1	-
		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	-
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
		KW	2.43	2.48	2.56	-	2.62	2.67	2.76	-	2.78	2.84	2.93	-	2.92	2.99	3.09	-	3.05	3.11	3.22	-	3.15	3.22	3.33	-
		AMPS	8.9	9.1	9.4	-	9.7	9.9	10.2	-	10.5	10.8	11.1	-	11.2	11.5	11.9	-	12.0	12.3	12.7	-	12.7	13.0	13.4	-
		HI PR	166	179	189	-	186	200	212	-	212	228	241	-	241	259	274	-	271	292	308	-	300	323	341	-
		LO PR	62	66	73	-	66	70	77	-	69	73	80	-	72	77	84	-	76	80	88	-	78	83	91	-
	875	MBh	25.9	26.8	29.4	-	25.3	26.2	28.7	-	24.7	25.6	28.0	-	24.1	25.0	27.4	-	22.9	23.7	26.0	-	21.2	22.0	24.1	-
		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	19	16	12	-	19	16	12	-	19	16	12	-	19	17	13	-	19	16	12	-	18	15	12	-
		KW	2.37	2.42	2.50	-	2.55	2.61	2.69	-	2.71	2.77	2.86	-	2.85	2.91	3.01	-	2.97	3.04	3.14	-	3.07	3.14	3.25	-
		AMPS	8.7	8.9	9.2	-	9.4	9.6	9.9	-	10.2	10.5	10.8	-	10.9	11.2	11.6	-	11.6	11.9	12.3	-	12.3	12.6	13.1	-
		HI PR	161	173	183	-	181	194	205	-	205	221	233	-	234	252	266	-	263	283	299	-	291	313	330	-
		LO PR	61	64	70	-	64	68	74	-	67	71	77	-	70	74	81	-	73	78	85	-	76	81	88	-

75	1125	MBh	29.4	30.3	32.8	35.2	28.7	29.6	32.0	34.3	28.0	28.9	31.2	33.5	27.3	28.2	30.5	32.7	26.0	26.7	29.0	31.1	24.1	24.8	26.8	28.8
		S/T	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.90	0.81	0.61	0.39	0.93	0.83	0.63	0.41	0.97	0.87	0.66	0.42	0.98	0.87	0.66	0.43
		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	2.47	2.52	2.60	2.68	2.66	2.72	2.80	2.89	2.83	2.89	2.98	3.08	2.97	3.04	3.14	3.24	3.10	3.17	3.27	3.38	3.21	3.28	3.39	3.50
		AMPS	9.1	9.3	9.6	10.0	9.8	10.1	10.4	10.8	10.7	11.0	11.3	11.8	11.4	11.7	12.1	12.6	12.2	12.5	12.9	13.4	12.9	13.2	13.7	14.2
		HI PR	169	182	192	201	190	204	216	225	216	232	245	256	246	265	280	292	277	298	315	328	306	329	348	362
		LO PR	64	68	74	79	67	72	78	83	70	74	81	87	74	78	85	91	77	82	89	95	80	85	93	99
	1000	MBh	28.5	29.4	31.8	34.1	27.9	28.7	31.1	33.3	27.2	28.0	30.3	32.5	26.5	27.3	29.6	31.8	25.2	26.0	28.1	30.2	23.4	24.1	26.0	27.9
		S/T	0.81	0.73	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	0.63	0.40	0.93	0.83	0.63	0.41
		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
		KW	2.45	2.50	2.58	2.66	2.64	2.69	2.78	2.87	2.80	2.86	2.96	3.05	2.95	3.01	3.11	3.22	3.07	3.14	3.24	3.35	3.18	3.25	3.36	3.47
		AMPS	9.0	9.2	9.5	9.9	9.7	10.0	10.3	10.7	10.6	10.9	11.2	11.7	11.3	11.6	12.0	12.5	12.1	12.4	12.8	13.3	12.8	13.1	13.6	14.1
		HI PR	168	180	190	199	188	202	214	223	214	230	243	253	244	262	277	289	274	295	311	325	303	326	344	359
		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
	875	MBh	26.3	27.1	29.4	31.5	25.7	26.5	28.7	30.8	25.1	25.9	28.0	30.0	24.5	25.2	27.3	29.3	23.3	24.0	25.9	27.8	21.6	22.2	24.0	25.8
		S/T	0.78	0.70	0.53	0.34	0.81	0.72	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	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	2.39	2.44	2.52	2.60	2.57	2.63	2.71	2.80	2.73	2.79	2.88	2.98	2.88	2.94	3.03	3.13	3.00	3.06	3.16	3.27	3.10	3.17	3.27	3.38
		AMPS	8.8	9.0	9.3	9.6	9.5	9.7	10.0	10.4	10.3	10.6	10.9	11.3	11.0	11.3	11.7	12.1	11.7	12.0	12.4	12.9	12.4	12.7	13.2	13.7
		HI PR	163	175	185	193	182	196	207	216	207	223	236	246	236	254	268	280	266	286	302	315	294	316	334	348
		LO PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	87	74	79	86	92	77	81	89	95

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

VHA30C2A

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA30C2A / CCA36FCC / BBA36A2A

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
80	1125	MBh	29.9	30.6	32.7	34.9	29.2	29.9	31.9	34.1	28.5	29.2	31.1	33.3	27.8	28.4	30.4	32.5	26.4	27.0	28.9	30.9	24.5	25.0	26.7	28.6
		S/T	0.93	0.87	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	0.58	1.00	1.00	0.81	0.61	1.00	1.00	0.82	0.61
		Delta T	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	20	20	18	14
		KW	2.49	2.54	2.62	2.71	2.68	2.74	2.83	2.92	2.85	2.91	3.01	3.10	3.00	3.06	3.16	3.27	3.12	3.19	3.30	3.41	3.23	3.31	3.42	3.53
		AMPS	9.2	9.4	9.7	10.1	9.9	10.2	10.5	10.9	10.8	11.1	11.4	11.9	11.5	11.8	12.2	12.7	12.3	12.6	13.0	13.5	13.0	13.4	13.8	14.4
		HI PR	171	184	194	203	192	206	218	227	218	235	248	259	249	267	282	295	280	301	318	331	309	332	351	366
		LO PR	64	69	75	80	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	81	86	93	100
	1000	MBh	29.0	29.7	31.7	33.9	28.4	29.0	31.0	33.1	27.7	28.3	30.2	32.3	27.0	27.6	29.5	31.5	25.7	26.2	28.0	30.0	23.8	24.3	26.0	27.8
		S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.95	0.89	0.72	0.54	0.98	0.92	0.74	0.56	1.00	0.95	0.77	0.58	1.00	0.96	0.78	0.58
		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	2.47	2.52	2.60	2.68	2.66	2.72	2.80	2.89	2.83	2.89	2.98	3.08	2.97	3.04	3.14	3.24	3.10	3.17	3.27	3.38	3.21	3.28	3.39	3.50
		AMPS	9.1	9.3	9.6	10.0	9.8	10.1	10.4	10.8	10.7	11.0	11.3	11.8	11.4	11.7	12.1	12.6	12.2	12.5	12.9	13.4	12.9	13.2	13.7	14.2
		HI PR	169	182	192	201	190	204	216	225	216	232	245	256	246	265	280	292	277	298	315	328	306	329	348	362
		LO PR	64	68	74	79	67	72	78	83	70	74	81	87	74	78	85	91	77	82	89	95	80	85	93	99
	875	MBh	26.8	27.4	29.3	31.3	26.2	26.8	28.6	30.6	25.6	26.1	27.9	29.8	24.9	25.5	27.2	29.1	23.7	24.2	25.9	27.7	21.9	22.4	24.0	25.6
		S/T	0.86	0.80	0.65	0.49	0.89	0.83	0.68	0.51	0.91	0.85	0.70	0.52	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	0.98	0.92	0.75	0.56
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	25	24	21	16	24	23	20	16	23	22	19	15
		KW	2.41	2.46	2.54	2.62	2.59	2.65	2.73	2.82	2.76	2.82	2.91	3.00	2.90	2.96	3.06	3.16	3.02	3.09	3.19	3.30	3.13	3.20	3.30	3.41
		AMPS	8.8	9.1	9.4	9.7	9.6	9.8	10.1	10.5	10.4	10.7	11.0	11.4	11.1	11.4	11.8	12.2	11.8	12.1	12.5	13.0	12.6	12.9	13.3	13.8
		HI PR	164	177	187	195	184	198	209	218	210	226	238	248	239	257	271	283	268	289	305	318	297	319	337	352
		LO PR	62	66	72	76	65	70	76	81	68	72	79	84	71	76	83	88	75	80	87	92	77	82	90	96

85	1125	MBh	30.4	31.0	32.5	34.7	29.7	30.3	31.7	33.9	29.0	29.6	31.0	33.1	28.3	28.9	30.2	32.3	26.9	27.4	28.7	30.6	24.9	25.4	26.6	28.4
		S/T	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.79
		Delta T	24	24	23	20	24	24	23	20	24	24	23	20	23	24	23	20	22	22	23	20	20	21	21	18
		KW	2.51	2.56	2.64	2.73	2.70	2.76	2.85	2.94	2.87	2.93	3.03	3.13	3.02	3.09	3.19	3.30	3.15	3.22	3.33	3.44	3.26	3.33	3.44	3.56
		AMPS	9.3	9.5	9.8	10.2	10.0	10.3	10.6	11.0	10.9	11.2	11.5	12.0	11.7	11.9	12.3	12.8	12.4	12.7	13.2	13.7	13.2	13.5	13.9	14.5
		HI PR	173	186	196	205	194	209	220	230	220	237	250	261	251	270	285	297	282	304	321	335	312	336	355	370
		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
	1000	MBh	29.6	30.1	31.6	33.7	28.9	29.4	30.8	32.9	28.2	28.7	30.1	32.1	27.5	28.0	29.4	31.3	26.1	26.6	27.9	29.7	24.2	24.7	25.8	27.6
		S/T	0.93	0.90	0.81	0.66	0.97	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.76
		Delta T	25	25	24	20	26	25	24	21	26	25	24	21	25	25	24	21	24	24	24	21	22	23	22	19
		KW	2.49	2.54	2.62	2.71	2.68	2.74	2.83	2.92	2.85	2.91	3.01	3.10	3.00	3.06	3.16	3.27	3.12	3.19	3.30	3.41	3.23	3.31	3.42	3.53
		AMPS	9.2	9.4	9.7	10.1	9.9	10.2	10.5	10.9	10.8	11.1	11.4	11.9	11.5	11.8	12.2	12.7	12.3	12.6	13.0	13.5	13.0	13.4	13.8	14.4
		HI PR	171	184	194	203	192	206	218	227	218	235	248	259	249	267	282	295	280	301	318	331	309	332	351	366
		LO PR	64	69	75	80	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	81	86	93	100
	875	MBh	27.3	27.8	29.1	31.1	26.6	27.2	28.4	30.3	26.0	26.5	27.8	29.6	25.4	25.9	27.1	28.9	24.1	24.6	25.7	27.5	22.3	22.8	23.8	25.4
		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	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21	25	26	24	21	23	24	23	19
		KW	2.43	2.48	2.56	2.64	2.62	2.67	2.76	2.85	2.78	2.84	2.93	3.03	2.92	2.99	3.08	3.19	3.05	3.11	3.22	3.32	3.15	3.22	3.33	3.44
		AMPS	8.9	9.1	9.4	9.8	9.7	9.9	10.2	10.6	10.5	10.8	11.1	11.5	11.2	11.5	11.9	12.3	12.0	12.3	12.7	13.2	12.7	13.0	13.4	13.9
		HI PR	166	178	188	197	186	200	211	221	212	228	241	251	241	259	274	286	271	292	308	321	300	322	340	355
		LO PR	62	66	73	77	66	70	77	82	69	73	80	85	72	77	84	89	75	80	88	93	78	83	91	97

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

VHA30C2A

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA30C2[B/C] /CA*F037*2*/ MBR1200

IDB*			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
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	
70	1125	MBh	26.5	27.4	30.0	-	25.8	26.8	29.3	-	25.2	26.1	28.6	-	24.6	25.5	27.9	-	23.4	24.2	26.6	-	21.7	22.4	24.6	-
		S/T	0.75	0.62	0.43	-	0.77	0.65	0.45	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.86	0.72	0.50	-
		Delta T	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	15	13	10	-
		KW	2.29	2.33	2.41	-	2.46	2.51	2.59	-	2.61	2.66	2.75	-	2.74	2.80	2.89	-	2.85	2.91	3.01	-	2.95	3.01	3.11	-
		AMPS	8.7	8.9	9.2	-	9.4	9.6	9.9	-	10.2	10.4	10.8	-	10.9	11.1	11.5	-	11.6	11.8	12.2	-	12.2	12.5	12.9	-
		HI PR	153	165	174	-	172	185	195	-	195	210	222	-	222	239	253	-	250	269	284	-	276	297	314	-
	LO PR	64	68	74	-	67	72	78	-	70	74	81	-	74	78	85	-	77	82	90	-	80	85	93	-	
	1000	MBh	25.7	26.6	29.2	-	25.1	26.0	28.5	-	24.5	25.4	27.8	-	23.9	24.8	27.1	-	22.7	23.5	25.8	-	21.0	21.8	23.9	-
		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	-
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-
		KW	2.27	2.32	2.39	-	2.44	2.49	2.57	-	2.59	2.64	2.72	-	2.72	2.77	2.86	-	2.83	2.89	2.98	-	2.92	2.99	3.08	-
		AMPS	8.6	8.8	9.1	-	9.3	9.5	9.8	-	10.1	10.3	10.7	-	10.8	11.0	11.4	-	11.4	11.7	12.1	-	12.1	12.4	12.8	-
		HI PR	151	163	172	-	170	183	193	-	193	208	220	-	220	237	250	-	248	267	281	-	274	295	311	-
	LO PR	63	67	73	-	67	71	77	-	69	74	81	-	73	77	85	-	76	81	89	-	79	84	92	-	
	875	MBh	23.7	24.6	26.9	-	23.2	24.0	26.3	-	22.6	23.4	25.7	-	22.1	22.9	25.0	-	21.0	21.7	23.8	-	19.4	20.1	22.0	-
		S/T	0.69	0.57	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.79	0.66	0.46	-
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-
		KW	2.22	2.26	2.33	-	2.38	2.43	2.51	-	2.52	2.58	2.66	-	2.65	2.71	2.79	-	2.76	2.82	2.91	-	2.85	2.91	3.01	-
		AMPS	8.4	8.6	8.9	-	9.1	9.3	9.6	-	9.8	10.1	10.4	-	10.5	10.7	11.1	-	11.1	11.4	11.8	-	11.8	12.1	12.5	-
		HI PR	147	158	167	-	165	177	187	-	188	202	213	-	214	230	243	-	240	259	273	-	265	286	302	-
	LO PR	61	65	71	-	65	69	75	-	67	72	78	-	71	75	82	-	74	79	86	-	77	81	89	-	

75	1125	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
		S/T	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.90	0.81	0.61	0.39	0.93	0.83	0.63	0.41	0.97	0.87	0.65	0.42	0.98	0.87	0.66	0.42
		Delta T	19	17	14	10	19	17	14	10	19	17	14	10	19	18	14	10	19	17	14	10	18	16	13	9
		KW	2.31	2.35	2.42	2.50	2.48	2.53	2.61	2.69	2.63	2.68	2.77	2.86	2.76	2.82	2.91	3.00	2.87	2.94	3.03	3.13	2.97	3.04	3.13	3.24
		AMPS	8.8	9.0	9.3	9.6	9.5	9.7	10.0	10.4	10.3	10.5	10.9	11.3	11.0	11.2	11.6	12.0	11.7	11.9	12.3	12.8	12.3	12.6	13.1	13.5
		HI PR	155	166	176	183	173	187	197	206	197	212	224	234	225	242	255	266	253	272	287	300	279	300	317	331
		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
	1000	MBh	26.1	26.9	29.1	31.2	25.5	26.3	28.4	30.5	24.9	25.6	27.8	29.8	24.3	25.0	27.1	29.1	23.1	23.8	25.7	27.6	21.4	22.0	23.8	25.6
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.41
		Delta T	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	18	17	14	10
		KW	2.29	2.34	2.41	2.48	2.46	2.51	2.59	2.67	2.61	2.66	2.75	2.83	2.74	2.80	2.89	2.98	2.85	2.91	3.01	3.10	2.95	3.01	3.11	3.21
		AMPS	8.7	8.9	9.2	9.5	9.4	9.6	9.9	10.3	10.2	10.4	10.8	11.2	10.9	11.1	11.5	11.9	11.6	11.8	12.2	12.7	12.2	12.5	12.9	13.4
		HI PR	153	165	174	181	172	185	195	204	195	210	222	231	222	239	253	264	250	269	284	297	276	298	314	328
		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
	875	MBh	24.1	24.8	26.9	28.8	23.6	24.2	26.2	28.2	23.0	23.7	25.6	27.5	22.4	23.1	25.0	26.8	21.3	21.9	23.7	25.5	19.7	20.3	22.0	23.6
		S/T	0.78	0.70	0.53	0.34	0.81	0.72	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	18	15	10	20	18	15	10	20	19	15	11	20	18	15	10	19	17	14	10
		KW	2.24	2.28	2.35	2.42	2.40	2.45	2.53	2.60	2.55	2.60	2.68	2.77	2.67	2.73	2.82	2.91	2.78	2.84	2.93	3.03	2.88	2.94	3.03	3.13
		AMPS	8.5	8.7	9.0	9.3	9.1	9.4	9.7	10.0	9.9	10.1	10.5	10.9	10.6	10.8	11.2	11.6	11.2	11.5	11.9	12.3	11.9	12.2	12.6	13.1
		HI PR	148	160	169	176	167	179	189	197	189	204	215	225	216	232	245	256	243	261	276	288	268	289	305	318
		LO PR	62	66	72	77	65	70	76	81	68	72	79	84	71	76	83	88	75	80	87	92	77	82	90	96

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

VHA30C2[B/C]

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA30C2[B/C] /CA*F037*2*/ MBR1200

			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
80	1125	MBh	27.4	28.0	29.9	32.0	26.7	27.3	29.2	31.2	26.1	26.7	28.5	30.5	25.5	26.0	27.8	29.7	24.2	24.7	26.4	28.2	22.4	22.9	24.5	26.2
		S/T	0.93	0.87	0.71	0.53	0.97	0.91	0.74	0.55	1.00	0.93	0.76	0.56	1.00	0.96	0.78	0.58	1.00	1.00	0.81	0.61	1.00	1.00	0.82	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	2.32	2.37	2.44	2.52	2.50	2.55	2.63	2.71	2.65	2.70	2.79	2.88	2.78	2.84	2.93	3.03	2.90	2.96	3.06	3.16	3.00	3.06	3.16	3.27
		AMPS	8.9	9.1	9.4	9.7	9.6	9.8	10.1	10.5	10.4	10.6	11.0	11.4	11.1	11.3	11.7	12.1	11.8	12.1	12.4	12.9	12.5	12.8	13.2	13.7
		HI PR	156	168	177	185	175	189	199	208	199	214	226	236	227	244	258	269	255	275	290	303	282	304	321	334
		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
	1000	MBh	26.6	27.2	29.0	31.0	26.0	26.5	28.4	30.3	25.4	25.9	27.7	29.6	24.7	25.3	27.0	28.9	23.5	24.0	25.7	27.4	21.8	22.2	23.8	25.4
		S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.94	0.89	0.72	0.54	0.97	0.91	0.74	0.56	1.00	0.95	0.77	0.58	1.00	0.96	0.78	0.58
		Delta T	22	21	18	14	22	21	18	15	22	21	18	15	22	21	18	15	22	21	18	15	20	20	17	14
		KW	2.31	2.35	2.42	2.50	2.48	2.53	2.61	2.69	2.63	2.68	2.77	2.86	2.76	2.82	2.91	3.00	2.87	2.94	3.03	3.13	2.97	3.04	3.13	3.24
		AMPS	8.8	9.0	9.3	9.6	9.5	9.7	10.0	10.4	10.3	10.5	10.9	11.3	11.0	11.2	11.6	12.0	11.7	11.9	12.3	12.8	12.3	12.6	13.1	13.5
		HI PR	155	166	176	183	173	187	197	206	197	212	224	234	225	242	255	266	253	272	287	300	279	301	317	331
		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
	875	MBh	24.5	25.1	26.8	28.6	24.0	24.5	26.2	28.0	23.4	23.9	25.5	27.3	22.8	23.3	24.9	26.6	21.7	22.2	23.7	25.3	20.1	20.5	21.9	23.4
		S/T	0.86	0.80	0.65	0.49	0.89	0.83	0.68	0.51	0.91	0.85	0.70	0.52	0.94	0.88	0.72	0.54	0.98	0.91	0.74	0.56	0.98	0.92	0.75	0.56
		Delta T	22	21	18	15	22	21	19	15	22	21	19	15	23	22	19	15	22	21	19	15	21	20	17	14
		KW	2.25	2.30	2.37	2.44	2.42	2.47	2.55	2.63	2.57	2.62	2.70	2.79	2.69	2.75	2.84	2.93	2.80	2.86	2.96	3.05	2.90	2.96	3.06	3.16
		AMPS	8.6	8.8	9.0	9.4	9.2	9.4	9.7	10.1	10.0	10.2	10.6	11.0	10.7	10.9	11.3	11.7	11.3	11.6	12.0	12.4	12.0	12.3	12.7	13.2
		HI PR	150	161	170	178	168	181	191	199	191	206	217	227	218	235	248	258	245	264	279	291	271	292	308	321
		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

85	1125	MBh	27.9	28.4	29.7	31.7	27.2	27.7	29.1	31.0	26.6	27.1	28.4	30.3	25.9	26.4	27.7	29.5	24.6	25.1	26.3	28.0	22.8	23.3	24.4	26.0
		S/T	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.79
		Delta T	22	22	21	18	22	22	21	18	22	22	21	18	21	22	21	18	20	21	21	18	19	19	19	17
		KW	2.34	2.39	2.46	2.54	2.52	2.57	2.65	2.73	2.67	2.73	2.81	2.90	2.81	2.87	2.96	3.05	2.92	2.98	3.08	3.18	3.02	3.09	3.19	3.29
		AMPS	8.9	9.2	9.4	9.8	9.6	9.9	10.2	10.6	10.5	10.7	11.1	11.5	11.2	11.4	11.8	12.3	11.9	12.2	12.6	13.0	12.6	12.9	13.3	13.8
		HI PR	158	170	179	187	177	190	201	210	201	217	229	238	229	247	260	272	258	277	293	306	285	307	324	338
		LO PR	66	70	76	81	69	74	81	86	72	77	84	89	76	81	88	94	79	85	92	98	82	87	95	102
	1000	MBh	27.1	27.6	28.9	30.8	26.4	26.9	28.2	30.1	25.8	26.3	27.5	29.4	25.2	25.7	26.9	28.7	23.9	24.4	25.5	27.2	22.1	22.6	23.6	25.2
		S/T	0.93	0.90	0.81	0.66	0.97	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.76
		Delta T	23	23	22	19	23	23	22	19	23	23	22	19	23	23	22	19	22	22	22	19	20	21	20	18
		KW	2.32	2.37	2.44	2.52	2.50	2.55	2.63	2.71	2.65	2.70	2.79	2.88	2.78	2.84	2.93	3.03	2.90	2.96	3.06	3.16	3.00	3.06	3.16	3.27
		AMPS	8.9	9.1	9.4	9.7	9.6	9.8	10.1	10.5	10.4	10.6	11.0	11.4	11.1	11.3	11.7	12.1	11.8	12.1	12.4	12.9	12.5	12.8	13.2	13.7
		HI PR	156	168	177	185	175	189	199	208	199	214	226	236	227	244	258	269	255	275	290	303	282	304	321	334
		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
	875	MBh	25.0	25.5	26.7	28.4	24.4	24.9	26.0	27.8	23.8	24.3	25.4	27.1	23.2	23.7	24.8	26.5	22.1	22.5	23.6	25.1	20.4	20.8	21.8	23.3
		S/T	0.90	0.87	0.78	0.63	0.93	0.90	0.81	0.66	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	0.99	0.90	0.73
		Delta T	24	23	22	19	24	23	22	19	24	23	22	19	24	24	22	19	23	23	22	19	21	22	21	18
		KW	2.27	2.32	2.39	2.46	2.44	2.49	2.57	2.65	2.59	2.64	2.72	2.81	2.72	2.77	2.86	2.95	2.83	2.89	2.98	3.08	2.92	2.99	3.08	3.18
		AMPS	8.6	8.8	9.1	9.4	9.3	9.5	9.8	10.2	10.1	10.3	10.7	11.1	10.8	11.0	11.4	11.8	11.4	11.7	12.1	12.6	12.1	12.4	12.8	13.3
		HI PR	151	163	172	179	170	183	193	201	193	208	220	229	220	237	250	261	248	266	281	293	274	294	311	324
		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

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

VHA30C2[B/C]

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA36C2A / CCA42FCC/ BBA36A2A

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
70	1350	MBh	34.1	35.3	38.7	-	33.3	34.5	37.8	-	32.5	33.7	36.9	-	31.7	32.9	36.0	-	30.1	31.2	34.2	-	27.9	28.9	31.7	-
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	18	15	12	-	17	15	11	-	16	14	11	-
		KW	2.76	2.83	2.93	-	3.00	3.07	3.17	-	3.20	3.28	3.39	-	3.38	3.46	3.59	-	3.54	3.62	3.75	-	3.67	3.76	3.89	-
		AMPS	11.4	11.7	12.0	-	12.3	12.6	13.0	-	13.4	13.7	14.1	-	14.3	14.6	15.1	-	15.2	15.5	16.1	-	16.1	16.5	17.0	-
		HI PR	163	175	185	-	182	196	207	-	208	223	236	-	236	254	269	-	266	286	302	-	294	316	334	-
		LO PR	60	64	70	-	63	67	74	-	66	70	77	-	69	74	80	-	73	77	84	-	75	80	87	-
	1220	MBh	33.6	34.8	38.1	-	32.8	34.0	37.3	-	32.0	33.2	36.4	-	31.2	32.4	35.5	-	29.7	30.8	33.7	-	27.5	28.5	31.2	-
		S/T	0.71	0.59	0.41	-	0.74	0.61	0.43	-	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	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	2.75	2.81	2.91	-	2.98	3.05	3.15	-	3.18	3.26	3.37	-	3.36	3.44	3.56	-	3.52	3.60	3.73	-	3.65	3.74	3.87	-
		AMPS	11.3	11.6	12.0	-	12.2	12.5	12.9	-	13.3	13.6	14.0	-	14.2	14.5	15.0	-	15.1	15.4	16.0	-	16.0	16.4	16.9	-
		HI PR	162	174	184	-	181	195	206	-	206	222	234	-	235	253	267	-	264	284	300	-	292	314	332	-
		LO PR	60	63	69	-	63	67	73	-	65	70	76	-	69	73	80	-	72	77	84	-	75	79	87	-
	1050	MBh	31.0	32.1	35.2	-	30.3	31.4	34.4	-	29.6	30.6	33.6	-	28.8	29.9	32.7	-	27.4	28.4	31.1	-	25.4	26.3	28.8	-
		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	-	0.79	0.66	0.45	-
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
		KW	2.68	2.74	2.83	-	2.90	2.97	3.07	-	3.10	3.17	3.28	-	3.27	3.35	3.47	-	3.42	3.50	3.63	-	3.55	3.63	3.76	-
		AMPS	11.0	11.3	11.6	-	11.9	12.2	12.6	-	12.9	13.2	13.7	-	13.8	14.1	14.6	-	14.7	15.0	15.5	-	15.5	15.9	16.4	-
		HI PR	157	169	178	-	176	189	200	-	200	215	227	-	228	245	259	-	256	276	291	-	283	305	322	-
		LO PR	58	62	67	-	61	65	71	-	64	68	74	-	67	71	77	-	70	74	81	-	72	77	84	-

75	1350	MBh	34.7	35.7	38.6	41.5	33.9	34.9	37.7	40.5	33.1	34.0	36.8	39.5	32.2	33.2	35.9	38.6	30.6	31.5	34.1	36.6	28.4	29.2	31.6	33.9
		S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.89	0.80	0.61	0.39	0.92	0.83	0.63	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	10	20	19	15	10	20	19	15	11	20	18	15	10	19	17	14	10
		KW	2.79	2.85	2.95	3.06	3.02	3.10	3.20	3.32	3.23	3.31	3.42	3.55	3.41	3.50	3.62	3.75	3.57	3.66	3.79	3.92	3.70	3.79	3.93	4.07
		AMPS	11.5	11.8	12.2	12.6	12.4	12.7	13.1	13.6	13.5	13.8	14.3	14.8	14.4	14.7	15.2	15.8	15.3	15.7	16.2	16.8	16.2	16.6	17.2	17.8
		HI PR	164	177	187	195	184	198	209	219	210	226	238	249	239	257	271	283	269	289	305	318	297	319	337	352
		LO PR	61	65	70	75	64	68	74	79	67	71	77	82	70	74	81	87	73	78	85	91	76	81	88	94
	1220	MBh	34.2	35.2	38.1	40.8	33.4	34.3	37.2	39.9	32.6	33.5	36.3	38.9	31.8	32.7	35.4	38.0	30.2	31.1	33.6	36.1	28.0	28.8	31.2	33.4
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40
		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	2.77	2.84	2.93	3.04	3.01	3.08	3.18	3.30	3.21	3.29	3.40	3.52	3.39	3.47	3.60	3.73	3.55	3.63	3.76	3.90	3.68	3.77	3.90	4.05
		AMPS	11.4	11.7	12.1	12.5	12.3	12.6	13.0	13.5	13.4	13.7	14.2	14.7	14.3	14.7	15.1	15.7	15.2	15.6	16.1	16.7	16.1	16.5	17.1	17.7
		HI PR	163	176	185	193	183	197	208	217	208	224	237	247	237	255	269	281	267	287	303	316	295	317	335	349
		LO PR	60	64	70	75	64	68	74	79	66	70	77	82	69	74	81	86	73	77	85	90	75	80	87	93
	1050	MBh	31.5	32.5	35.1	37.7	30.8	31.7	34.3	36.8	30.1	30.9	33.5	36.0	29.3	30.2	32.7	35.1	27.9	28.7	31.0	33.3	25.8	26.6	28.8	30.9
		S/T	0.78	0.70	0.53	0.34	0.81	0.72	0.55	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.89	0.79	0.60	0.39	0.89	0.80	0.60	0.39
		Delta T	21	20	16	11	22	20	16	11	22	20	16	11	22	20	17	11	22	20	16	11	20	19	15	11
		KW	2.70	2.76	2.86	2.96	2.93	2.99	3.10	3.21	3.13	3.20	3.31	3.43	3.30	3.38	3.50	3.63	3.45	3.54	3.66	3.79	3.58	3.67	3.80	3.94
		AMPS	11.1	11.4	11.8	12.2	12.0	12.3	12.7	13.2	13.0	13.3	13.8	14.3	13.9	14.3	14.7	15.3	14.8	15.2	15.7	16.3	15.7	16.1	16.6	17.2
		HI PR	158	170	180	188	178	191	202	210	202	217	230	239	230	248	261	273	259	278	294	307	286	308	325	339
		LO PR	58	62	68	72	62	66	72	76	64	68	75	79	67	72	78	83	71	75	82	87	73	78	85	90

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA36C2A / CCA42FCC/ BBA36A2A

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
80	1350	MBh	35.3	36.1	38.5	41.2	34.5	35.2	37.6	40.2	33.6	34.4	36.7	39.3	32.8	33.5	35.8	38.3	31.2	31.9	34.0	36.4	28.9	29.5	31.5	33.7
		S/T	0.92	0.87	0.70	0.53	0.96	0.90	0.73	0.55	0.98	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	18	15	22	22	19	15	22	22	19	15	22	22	19	15	21	22	19	15	20	20	17	14
		KW	2.81	2.88	2.98	3.08	3.05	3.12	3.23	3.35	3.26	3.34	3.46	3.58	3.45	3.53	3.65	3.78	3.60	3.69	3.82	3.96	3.74	3.83	3.97	4.11
		AMPS	11.6	11.9	12.3	12.7	12.5	12.8	13.3	13.7	13.6	13.9	14.4	14.9	14.5	14.9	15.4	16.0	15.5	15.8	16.4	17.0	16.4	16.8	17.3	18.0
		HI PR	166	179	189	197	186	200	212	221	212	228	241	251	241	260	274	286	271	292	308	322	300	323	341	355
		LO PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	87	74	79	86	92	77	81	89	95
	1220	MBh	34.8	35.5	37.9	40.6	34.0	34.7	37.1	39.6	33.1	33.9	36.2	38.7	32.3	33.0	35.3	37.7	30.7	31.4	33.5	35.8	28.5	29.1	31.1	33.2
		S/T	0.88	0.83	0.67	0.50	0.92	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	23	22	19	15	23	22	20	16	23	22	20	16	24	23	20	16	23	22	19	16	21	21	18	14
		KW	2.80	2.86	2.96	3.06	3.03	3.10	3.21	3.33	3.24	3.32	3.43	3.56	3.42	3.51	3.63	3.76	3.58	3.67	3.80	3.93	3.71	3.80	3.94	4.08
		AMPS	11.5	11.8	12.2	12.6	12.5	12.8	13.2	13.7	13.5	13.8	14.3	14.8	14.4	14.8	15.3	15.9	15.4	15.7	16.3	16.9	16.3	16.7	17.2	17.9
		HI PR	165	177	187	195	185	199	210	219	210	226	239	249	240	258	272	284	269	290	306	319	298	320	338	353
		LO PR	61	65	71	75	64	68	75	80	67	71	78	83	70	75	82	87	74	78	85	91	76	81	88	94
	1050	MBh	32.1	32.8	35.0	37.4	31.3	32.0	34.2	36.6	30.6	31.3	33.4	35.7	29.8	30.5	32.6	34.8	28.4	29.0	31.0	33.1	26.3	26.8	28.7	30.7
		S/T	0.85	0.80	0.65	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.88	0.71	0.53	0.97	0.91	0.74	0.55	0.98	0.92	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	2.72	2.79	2.88	2.98	2.95	3.02	3.13	3.24	3.15	3.23	3.34	3.46	3.33	3.41	3.53	3.66	3.48	3.57	3.69	3.83	3.61	3.70	3.83	3.97
		AMPS	11.2	11.5	11.9	12.3	12.1	12.4	12.8	13.3	13.2	13.5	13.9	14.4	14.0	14.4	14.9	15.4	14.9	15.3	15.8	16.4	15.8	16.2	16.7	17.4
		HI PR	160	172	182	189	179	193	204	213	204	220	232	242	232	250	264	275	261	281	297	310	289	311	328	342
		LO PR	59	63	69	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	78	86	91

85	1350	MBh	35.9	36.6	38.3	40.9	35.1	35.7	37.4	39.9	34.2	34.9	36.5	39.0	33.4	34.0	35.7	38.0	31.7	32.3	33.9	36.1	29.4	30.0	31.4	33.5
		S/T	0.97	0.93	0.84	0.68	1.00	0.97	0.87	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79
		Delta T	24	23	22	19	24	24	22	19	23	24	22	19	23	23	22	19	22	22	22	19	20	20	21	18
		KW	2.84	2.90	3.00	3.11	3.08	3.15	3.26	3.38	3.29	3.37	3.49	3.61	3.48	3.56	3.69	3.82	3.64	3.72	3.86	3.99	3.77	3.86	4.00	4.15
		AMPS	11.7	12.0	12.4	12.8	12.6	12.9	13.4	13.9	13.7	14.1	14.5	15.1	14.7	15.0	15.5	16.1	15.6	16.0	16.5	17.1	16.5	16.9	17.5	18.2
		HI PR	168	180	190	199	188	202	214	223	214	230	243	254	244	262	277	289	274	295	311	325	303	326	344	359
		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
	1220	MBh	35.4	36.1	37.8	40.3	34.5	35.2	36.9	39.3	33.7	34.4	36.0	38.4	32.9	33.5	35.1	37.5	31.3	31.9	33.4	35.6	29.0	29.5	30.9	33.0
		S/T	0.93	0.89	0.81	0.65	0.96	0.93	0.84	0.68	0.99	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75
		Delta T	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	24	24	23	20	22	22	22	19
		KW	2.82	2.89	2.99	3.09	3.06	3.13	3.24	3.36	3.27	3.35	3.46	3.59	3.45	3.54	3.66	3.79	3.61	3.70	3.83	3.97	3.75	3.84	3.98	4.12
		AMPS	11.6	11.9	12.3	12.7	12.6	12.9	13.3	13.8	13.6	14.0	14.4	15.0	14.6	14.9	15.4	16.0	15.5	15.9	16.4	17.0	16.4	16.8	17.4	18.0
		HI PR	166	179	189	197	187	201	212	221	212	229	241	252	242	260	275	287	272	293	309	323	301	324	342	356
		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
	1050	MBh	32.6	33.3	34.9	37.2	31.9	32.5	34.0	36.3	31.1	31.7	33.2	35.5	30.4	31.0	32.4	34.6	28.8	29.4	30.8	32.9	26.7	27.2	28.5	30.4
		S/T	0.89	0.86	0.78	0.63	0.93	0.89	0.81	0.65	0.95	0.92	0.83	0.67	0.98	0.95	0.85	0.69	1.00	0.98	0.89	0.72	1.00	0.99	0.89	0.72
		Delta T	26	25	24	21	26	25	24	21	26	25	24	21	26	26	24	21	25	25	24	21	23	24	22	19
		KW	2.75	2.81	2.91	3.01	2.98	3.05	3.15	3.27	3.18	3.26	3.37	3.49	3.36	3.44	3.56	3.69	3.52	3.60	3.73	3.86	3.65	3.73	3.87	4.01
		AMPS	11.3	11.6	12.0	12.4	12.2	12.5	12.9	13.4	13.3	13.6	14.0	14.6	14.2	14.5	15.0	15.6	15.1	15.4	16.0	16.6	16.0	16.4	16.9	17.5
		HI PR	161	174	183	191	181	195	206	215	206	222	234	244	235	253	267	278	264	284	300	313	292	314	331	346
		LO PR	60	63	69	74	63	67	73	78	65	70	76	81	69	73	80	85	72	77	84	89	75	79	87	92

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

VHA36C2A

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA36C2[B/C] /CA*F042*2*/ MBR1200

			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
70	1350	MBh	32.9	34.1	37.4	-	32.2	33.3	36.5	-	31.4	32.5	35.7	-	30.6	31.7	34.8	-	29.1	30.2	33.0	-	27.0	27.9	30.6	-
		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	-
		Delta T	16	14	10	-	16	14	10	-	16	14	10	-	16	14	11	-	16	14	10	-	15	13	10	-
		KW	3.00	3.06	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	3.98	4.11	-
		AMPS	11.1	11.4	11.8	-	12.0	12.3	12.8	-	13.1	13.4	13.9	-	14.0	14.4	14.9	-	15.0	15.4	15.9	-	15.9	16.3	16.9	-
		HI PR	176	189	200	-	197	212	224	-	224	241	255	-	255	275	290	-	287	309	326	-	317	341	360	-
		LO PR	57	61	66	-	60	64	70	-	62	66	73	-	66	70	76	-	69	73	80	-	71	76	83	-
	1200	MBh	32.0	33.1	36.3	-	31.2	32.4	35.5	-	30.5	31.6	34.6	-	29.7	30.8	33.8	-	28.2	29.3	32.1	-	26.2	27.1	29.7	-
		S/T	0.67	0.56	0.39	-	0.70	0.58	0.40	-	0.71	0.60	0.41	-	0.74	0.61	0.43	-	0.76	0.64	0.44	-	0.77	0.64	0.45	-
		Delta T	16	14	11	-	17	14	11	-	17	14	11	-	17	15	11	-	17	14	11	-	15	13	10	-
		KW	2.98	3.04	3.14	-	3.20	3.27	3.38	-	3.40	3.48	3.59	-	3.58	3.66	3.78	-	3.73	3.81	3.94	-	3.86	3.94	4.07	-
		AMPS	11.0	11.3	11.7	-	11.9	12.2	12.6	-	13.0	13.3	13.8	-	13.9	14.3	14.8	-	14.8	15.2	15.7	-	15.7	16.1	16.7	-
		HI PR	174	187	198	-	195	210	222	-	222	239	252	-	253	272	287	-	284	306	323	-	314	338	357	-
		LO PR	56	60	65	-	60	63	69	-	62	66	72	-	65	69	75	-	68	72	79	-	70	75	82	-
	1050	MBh	29.5	30.6	33.5	-	28.8	29.9	32.7	-	28.1	29.2	31.9	-	27.4	28.4	31.2	-	26.1	27.0	29.6	-	24.2	25.0	27.4	-
		S/T	0.65	0.54	0.37	-	0.67	0.56	0.39	-	0.69	0.57	0.40	-	0.71	0.59	0.41	-	0.74	0.62	0.43	-	0.74	0.62	0.43	-
		Delta T	17	14	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-
		KW	2.91	2.97	3.06	-	3.13	3.19	3.29	-	3.32	3.39	3.50	-	3.49	3.57	3.68	-	3.64	3.72	3.84	-	3.76	3.84	3.97	-
		AMPS	10.7	11.0	11.3	-	11.6	11.9	12.3	-	12.6	12.9	13.4	-	13.5	13.9	14.3	-	14.4	14.8	15.3	-	15.3	15.7	16.2	-
		HI PR	169	181	192	-	189	204	215	-	215	232	245	-	245	264	279	-	276	297	313	-	305	328	346	-
		LO PR	55	58	63	-	58	61	67	-	60	64	70	-	63	67	73	-	66	70	77	-	68	73	79	-

75	1350	MBh	33.5	34.5	37.3	40.0	32.7	33.7	36.4	39.1	31.9	32.9	35.6	38.2	31.1	32.1	34.7	37.3	29.6	30.5	33.0	35.4	27.4	28.2	30.5	32.8
		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	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.92	0.82	0.62	0.40
		Delta T	18	17	14	9	18	17	14	10	18	17	14	10	19	17	14	10	18	17	14	10	17	16	13	9
		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	3.97	3.79	3.87	4.00	4.14	3.92	4.01	4.14	4.28
		AMPS	11.2	11.5	11.9	12.3	12.2	12.5	12.9	13.4	13.2	13.6	14.0	14.6	14.2	14.5	15.0	15.6	15.1	15.5	16.0	16.7	16.0	16.5	17.0	17.7
		HI PR	177	191	202	210	199	214	226	236	226	244	257	268	258	277	293	306	290	312	330	344	320	345	364	380
		LO PR	57	61	67	71	61	65	71	75	63	67	73	78	66	71	77	82	69	74	81	86	72	76	83	89
	1200	MBh	32.5	33.5	36.2	38.9	31.8	32.7	35.4	38.0	31.0	31.9	34.5	37.1	30.2	31.1	33.7	36.2	28.7	29.6	32.0	34.4	26.6	27.4	29.7	31.8
		S/T	0.76	0.68	0.52	0.33	0.79	0.71	0.53	0.34	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.87	0.78	0.59	0.38	0.88	0.78	0.59	0.38
		Delta T	19	17	14	10	19	18	15	10	19	18	15	10	19	18	15	10	19	18	14	10	18	16	13	9
		KW	3.00	3.07	3.16	3.26	3.23	3.30	3.40	3.51	3.43	3.51	3.62	3.74	3.61	3.69	3.81	3.93	3.76	3.84	3.97	4.10	3.89	3.98	4.11	4.25
		AMPS	11.1	11.4	11.8	12.2	12.1	12.3	12.8	13.3	13.1	13.5	13.9	14.4	14.1	14.4	14.9	15.5	15.0	15.4	15.9	16.5	15.9	16.3	16.9	17.5
		HI PR	176	189	200	208	197	212	224	234	224	241	255	266	255	275	290	303	287	309	326	340	317	341	361	376
		LO PR	57	61	66	70	60	64	70	74	62	66	73	77	66	70	76	81	69	73	80	85	71	76	83	88
	1050	MBh	30.0	30.9	33.4	35.9	29.3	30.2	32.7	35.1	28.6	29.5	31.9	34.2	27.9	28.7	31.1	33.4	26.5	27.3	29.6	31.7	24.6	25.3	27.4	29.4
		S/T	0.74	0.66	0.50	0.32	0.76	0.68	0.52	0.33	0.78	0.70	0.53	0.34	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.84	0.76	0.57	0.37
		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	2.93	2.99	3.09	3.18	3.15	3.22	3.32	3.43	3.35	3.42	3.53	3.64	3.52	3.60	3.71	3.84	3.67	3.75	3.87	4.00	3.79	3.88	4.00	4.14
		AMPS	10.8	11.1	11.5	11.9	11.7	12.0	12.4	12.9	12.8	13.1	13.5	14.0	13.7	14.0	14.5	15.0	14.6	14.9	15.4	16.0	15.4	15.8	16.4	17.0
		HI PR	170	183	194	202	191	206	217	227	217	234	247	258	248	266	281	293	279	300	317	330	308	331	350	365
		LO PR	55	59	64	68	58	62	68	72	61	64	70	75	64	68	74	79	67	71	77	83	69	73	80	85

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA36C2[B/C] /CA*F042*2*/ MBR1200

			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
80	1350	MBh	34.1	34.8	37.2	39.8	33.3	34.0	36.3	38.8	32.5	33.2	35.5	37.9	31.7	32.4	34.6	37.0	30.1	30.8	32.9	35.1	27.9	28.5	30.5	32.6
		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	0.94	0.76	0.57	1.00	0.94	0.77	0.57
		Delta T	20	20	17	14	21	20	17	14	21	20	17	14	21	20	17	14	21	20	17	14	19	18	16	13
		KW	3.05	3.11	3.21	3.31	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	3.91	4.04	4.17	3.96	4.04	4.18	4.32
		AMPS	11.3	11.6	12.0	12.5	12.3	12.6	13.0	13.5	13.4	13.7	14.2	14.7	14.3	14.7	15.2	15.8	15.3	15.7	16.2	16.8	16.2	16.6	17.2	17.9
		HI PR	179	193	204	212	201	216	228	238	229	246	260	271	260	280	296	309	293	315	333	347	324	348	368	384
		LO PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90
	1200	MBh	33.1	33.8	36.1	38.6	32.3	33.0	35.3	37.7	31.5	32.2	34.4	36.8	30.8	31.4	33.6	35.9	29.2	29.9	31.9	34.1	27.1	27.7	29.6	31.6
		S/T	0.84	0.78	0.64	0.48	0.87	0.81	0.66	0.49	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	0.96	0.90	0.73	0.55
		Delta T	21	20	18	14	21	21	18	14	21	21	18	14	22	21	18	14	21	20	18	14	20	19	17	13
		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	3.97	3.79	3.88	4.00	4.14	3.92	4.01	4.14	4.28
		AMPS	11.2	11.5	11.9	12.3	12.2	12.5	12.9	13.4	13.2	13.6	14.0	14.6	14.2	14.5	15.0	15.6	15.1	15.5	16.0	16.7	16.0	16.5	17.0	17.7
		HI PR	177	191	202	210	199	214	226	236	226	244	257	268	258	277	293	306	290	312	330	344	320	345	364	380
		LO PR	57	61	67	71	61	65	71	75	63	67	73	78	66	71	77	82	69	74	81	86	72	76	83	89
	1050	MBh	30.5	31.2	33.3	35.6	29.8	30.5	32.6	34.8	29.1	29.8	31.8	34.0	28.4	29.0	31.0	33.2	27.0	27.6	29.5	31.5	25.0	25.5	27.3	29.2
		S/T	0.81	0.76	0.62	0.46	0.84	0.78	0.64	0.48	0.86	0.80	0.65	0.49	0.88	0.83	0.68	0.50	0.92	0.86	0.70	0.52	0.93	0.87	0.71	0.53
		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
		KW	2.95	3.02	3.11	3.21	3.18	3.25	3.35	3.46	3.38	3.45	3.56	3.67	3.55	3.63	3.74	3.87	3.70	3.78	3.90	4.03	3.82	3.91	4.04	4.17
		AMPS	10.9	11.2	11.6	12.0	11.8	12.1	12.5	13.0	12.9	13.2	13.6	14.2	13.8	14.1	14.6	15.2	14.7	15.1	15.6	16.2	15.6	16.0	16.5	17.2
		HI PR	172	185	196	204	193	208	219	229	220	236	250	260	250	269	284	296	281	303	320	333	311	335	353	368
		LO PR	56	59	65	69	59	63	68	73	61	65	71	76	64	68	75	80	67	72	78	83	70	74	81	86

85	1350	MBh	34.7	35.3	37.0	39.5	33.9	34.5	36.2	38.6	33.1	33.7	35.3	37.7	32.3	32.9	34.4	36.7	30.6	31.2	32.7	34.9	28.4	28.9	30.3	32.3
		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
		Delta T	22	21	20	17	22	22	20	18	22	22	20	18	22	22	21	18	21	21	20	18	19	20	19	16
		KW	3.07	3.14	3.24	3.34	3.31	3.38	3.49	3.60	3.52	3.59	3.71	3.83	3.70	3.78	3.90	4.03	3.85	3.94	4.07	4.21	3.99	4.08	4.21	4.36
		AMPS	11.4	11.7	12.1	12.6	12.4	12.7	13.1	13.6	13.5	13.8	14.3	14.9	14.5	14.8	15.3	15.9	15.4	15.8	16.3	17.0	16.4	16.8	17.3	18.0
		HI PR	181	195	206	214	203	219	231	241	231	249	262	274	263	283	299	312	296	318	336	351	327	352	372	387
		LO PR	59	62	68	73	62	66	72	77	64	68	75	80	68	72	79	84	71	75	82	88	73	78	85	91
	1200	MBh	33.7	34.3	35.9	38.3	32.9	33.5	35.1	37.5	32.1	32.7	34.3	36.6	31.3	31.9	33.4	35.7	29.7	30.3	31.8	33.9	27.6	28.1	29.4	31.4
		S/T	0.88	0.85	0.76	0.62	0.91	0.88	0.79	0.64	0.93	0.90	0.81	0.66	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.71	1.00	0.97	0.88	0.71
		Delta T	23	22	21	18	23	23	21	18	23	23	21	18	23	23	21	19	23	22	21	18	21	21	20	17
		KW	3.05	3.11	3.21	3.31	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	3.91	4.04	4.17	3.96	4.04	4.18	4.32
		AMPS	11.3	11.6	12.0	12.5	12.3	12.6	13.0	13.5	13.4	13.7	14.2	14.7	14.3	14.7	15.2	15.8	15.3	15.7	16.2	16.8	16.2	16.6	17.2	17.9
		HI PR	179	193	204	212	201	216	228	238	229	246	260	271	260	280	296	309	293	315	333	347	324	348	368	384
		LO PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90
	1050	MBh	31.1	31.7	33.2	35.4	30.3	30.9	32.4	34.6	29.6	30.2	31.6	33.7	28.9	29.5	30.9	32.9	27.5	28.0	29.3	31.3	25.4	25.9	27.2	29.0
		S/T	0.85	0.82	0.74	0.60	0.88	0.85	0.76	0.62	0.90	0.87	0.78	0.63	0.93	0.89	0.81	0.66	0.96	0.93	0.84	0.68	0.97	0.94	0.85	0.69
		Delta T	23	23	21	19	23	23	22	19	23	23	22	19	23	23	22	19	23	23	22	19	22	21	20	17
		KW	2.98	3.04	3.13	3.23	3.20	3.27	3.38	3.48	3.40	3.48	3.59	3.71	3.58	3.66	3.78	3.90	3.73	3.81	3.93	4.07	3.86	3.94	4.07	4.21
		AMPS	11.0	11.3	11.7	12.1	11.9	12.2	12.6	13.1	13.0	13.3	13.8	14.3	13.9	14.3	14.8	15.3	14.8	15.2	15.7	16.3	15.7	16.1	16.7	17.3
		HI PR	174	187	197	206	195	210	222	231	222	239	252	263	253	272	287	299	284	306	323	337	314	338	357	372
		LO PR	56	60	65	70	59	63	69	74	62	66	72	76	65	69	75	80	68	72	79	84	70	75	82	87

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

VHA36C2[B/C]

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA42C2A / CCA48FCC/ BBA48A2A

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
70	1575	MBh	39.4	40.8	44.7	-	38.5	39.9	43.7	-	37.6	38.9	42.6	-	36.6	38.0	41.6	-	34.8	36.1	39.5	-	32.2	33.4	36.6	-
		S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.47	-	0.83	0.70	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	10	-
		KW	3.44	3.51	3.62	-	3.69	3.77	3.89	-	3.92	4.00	4.13	-	4.12	4.20	4.34	-	4.28	4.38	4.52	-	4.43	4.53	4.67	-
		AMPS	13.5	13.8	14.2	-	14.6	14.9	15.4	-	15.8	16.2	16.7	-	16.9	17.3	17.9	-	18.0	18.4	19.1	-	19.1	19.5	20.2	-
		HI PR	162	175	184	-	182	196	207	-	207	223	235	-	236	254	268	-	265	285	301	-	293	315	333	-
	LO PR	62	66	72	-	66	70	76	-	68	72	79	-	72	76	83	-	75	80	87	-	78	82	90	-	
	1275	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	0.69	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	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	13	-	18	15	12	-
		KW	3.39	3.46	3.56	-	3.64	3.71	3.83	-	3.86	3.94	4.06	-	4.05	4.14	4.27	-	4.22	4.31	4.44	-	4.36	4.45	4.60	-
		AMPS	13.2	13.5	14.0	-	14.3	14.6	15.1	-	15.5	15.9	16.4	-	16.6	17.0	17.6	-	17.7	18.1	18.7	-	18.7	19.2	19.8	-
		HI PR	159	171	181	-	178	192	203	-	203	218	231	-	231	249	263	-	260	280	295	-	287	309	326	-
	LO PR	61	65	71	-	64	68	75	-	67	71	78	-	70	75	81	-	73	78	85	-	76	81	88	-	
	1225	MBh	37.7	39.0	42.8	-	36.8	38.1	41.8	-	35.9	37.2	40.8	-	35.0	36.3	39.8	-	33.3	34.5	37.8	-	30.8	32.0	35.0	-
		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	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-
		KW	3.36	3.42	3.53	-	3.60	3.68	3.79	-	3.82	3.90	4.02	-	4.01	4.09	4.22	-	4.17	4.26	4.40	-	4.31	4.41	4.55	-
		AMPS	13.1	13.4	13.8	-	14.1	14.5	14.9	-	15.3	15.7	16.2	-	16.4	16.8	17.4	-	17.5	17.9	18.5	-	18.5	19.0	19.6	-
		HI PR	157	169	178	-	176	190	200	-	200	216	228	-	228	245	259	-	257	276	292	-	284	305	322	-
	LO PR	60	64	70	-	63	67	74	-	66	70	77	-	69	74	80	-	73	77	84	-	75	80	87	-	

75	1575	MBh	40.1	41.2	44.6	47.9	39.1	40.3	43.6	46.8	38.2	39.3	42.6	45.7	37.3	38.4	41.5	44.6	35.4	36.4	39.4	42.3	32.8	33.8	36.5	39.2
		S/T	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.38	0.89	0.79	0.60	0.39	0.91	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.96	0.86	0.65	0.42
		Delta T	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	18	17	14	10
		KW	3.47	3.54	3.64	3.76	3.72	3.80	3.92	4.04	3.95	4.03	4.16	4.29	4.15	4.24	4.37	4.52	4.32	4.41	4.55	4.70	4.47	4.56	4.71	4.87
		AMPS	13.6	13.9	14.4	14.9	14.7	15.0	15.5	16.1	16.0	16.4	16.9	17.5	17.1	17.5	18.1	18.8	18.2	18.6	19.2	20.0	19.3	19.7	20.4	21.2
		HI PR	164	176	186	194	184	198	209	218	209	225	238	248	238	256	271	282	268	288	304	318	296	319	336	351
		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
	1275	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	0.78	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	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	11	21	19	16	11
		KW	3.41	3.48	3.59	3.70	3.67	3.74	3.86	3.98	3.89	3.97	4.09	4.23	4.08	4.17	4.30	4.44	4.25	4.34	4.48	4.63	4.39	4.49	4.63	4.79
		AMPS	13.3	13.7	14.1	14.6	14.4	14.8	15.3	15.8	15.7	16.1	16.6	17.2	16.8	17.2	17.7	18.4	17.8	18.3	18.9	19.6	18.9	19.4	20.0	20.8
		HI PR	161	173	183	190	180	194	205	214	205	221	233	243	233	251	265	277	263	283	298	311	290	312	330	344
		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
	1225	MBh	38.3	39.4	42.7	45.8	37.4	38.5	41.7	44.8	36.5	37.6	40.7	43.7	35.6	36.7	39.7	42.6	33.9	34.9	37.7	40.5	31.4	32.3	35.0	37.5
		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	22	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	22	21	17	12	21	19	16	11
		KW	3.38	3.45	3.55	3.66	3.63	3.70	3.82	3.94	3.85	3.93	4.05	4.18	4.04	4.13	4.26	4.40	4.21	4.30	4.43	4.58	4.35	4.44	4.59	4.74
		AMPS	13.2	13.5	13.9	14.5	14.3	14.6	15.1	15.6	15.5	15.9	16.4	17.0	16.6	17.0	17.5	18.2	17.6	18.1	18.7	19.4	18.7	19.1	19.8	20.5
		HI PR	159	171	180	188	178	191	202	211	202	218	230	240	230	248	262	273	259	279	295	307	286	308	326	340
		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

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA42C2A / CCA48FCC/ BBA48A2A

			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
80	1575	MBh	40.8	41.7	44.5	47.6	39.8	40.7	43.5	46.5	38.9	39.7	42.4	45.4	37.9	38.8	41.4	44.3	36.0	36.8	39.3	42.0	33.4	34.1	36.4	38.9
		S/T	0.91	0.86	0.70	0.52	0.95	0.89	0.72	0.54	1.00	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.80	0.60
		Delta T	22	21	18	14	22	21	18	15	23	21	18	15	22	21	18	15	21	21	18	15	19	20	17	14
		KW	3.49	3.56	3.67	3.79	3.75	3.83	3.95	4.08	3.98	4.07	4.19	4.33	4.18	4.27	4.41	4.55	4.35	4.45	4.59	4.74	4.50	4.60	4.75	4.91
		AMPS	13.7	14.0	14.5	15.0	14.8	15.2	15.7	16.3	16.1	16.5	17.1	17.7	17.2	17.6	18.2	18.9	18.3	18.8	19.4	20.2	19.4	19.9	20.6	21.4
		HI PR	166	178	188	196	186	200	211	220	211	227	240	250	241	259	273	285	271	291	308	321	299	322	340	354
		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
	1275	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	0.86	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	25	24	21	16	25	24	21	16	25	24	21	17	25	24	20	16	23	22	19	15
		KW	3.44	3.51	3.62	3.73	3.70	3.77	3.89	4.01	3.92	4.00	4.13	4.26	4.12	4.21	4.34	4.48	4.29	4.38	4.52	4.67	4.43	4.53	4.67	4.83
		AMPS	13.5	13.8	14.2	14.8	14.6	14.9	15.4	16.0	15.8	16.2	16.7	17.4	16.9	17.3	17.9	18.6	18.0	18.5	19.1	19.8	19.1	19.6	20.2	21.0
		HI PR	162	175	184	192	182	196	207	216	207	223	235	245	236	254	268	280	265	286	302	314	293	315	333	347
		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
	1225	MBh	39.0	39.8	42.6	45.5	38.1	38.9	41.6	44.4	37.2	38.0	40.6	43.4	36.3	37.1	39.6	42.3	34.5	35.2	37.6	40.2	31.9	32.6	34.8	37.3
		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	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	22	20	16
		KW	3.41	3.48	3.58	3.69	3.66	3.73	3.85	3.97	3.88	3.96	4.08	4.22	4.07	4.16	4.29	4.43	4.24	4.33	4.47	4.62	4.38	4.48	4.62	4.78
		AMPS	13.3	13.6	14.1	14.6	14.4	14.7	15.2	15.8	15.6	16.0	16.5	17.2	16.7	17.1	17.7	18.4	17.8	18.2	18.8	19.6	18.9	19.3	20.0	20.7
		HI PR	160	172	182	190	180	193	204	213	204	220	232	242	233	250	265	276	262	282	298	310	289	311	329	343
		LO PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	87	74	79	86	92	77	81	89	95
85	1575	MBh	41.5	42.3	44.3	47.2	40.5	41.3	43.3	46.1	39.5	40.3	42.2	45.0	38.6	39.3	41.2	43.9	36.7	37.4	39.1	41.7	34.0	34.6	36.2	38.7
		S/T	0.96	0.92	0.83	0.68	0.99	0.96	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
		Delta T	23	23	22	19	23	23	22	19	23	23	22	19	23	23	22	19	21	22	22	19	20	20	20	18
		KW	3.52	3.59	3.70	3.82	3.78	3.86	3.98	4.11	4.01	4.10	4.23	4.36	4.22	4.31	4.45	4.59	4.39	4.49	4.63	4.78	4.54	4.64	4.79	4.95
		AMPS	13.8	14.2	14.6	15.2	15.0	15.3	15.8	16.4	16.3	16.7	17.2	17.9	17.4	17.8	18.4	19.1	18.5	19.0	19.6	20.4	19.6	20.1	20.8	21.6
		HI PR	167	180	190	198	188	202	213	222	213	230	242	253	243	261	276	288	273	294	311	324	302	325	343	358
		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
	1275	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
		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	26	26	25	21	26	26	25	21	27	26	25	21	26	26	24	21	24	24	23	20
		KW	3.47	3.54	3.65	3.76	3.72	3.80	3.92	4.04	3.95	4.03	4.16	4.29	4.15	4.24	4.37	4.52	4.32	4.41	4.56	4.70	4.47	4.56	4.71	4.87
		AMPS	13.6	13.9	14.4	14.9	14.7	15.0	15.5	16.1	16.0	16.4	16.9	17.5	17.1	17.5	18.1	18.8	18.2	18.6	19.2	20.0	19.3	19.7	20.4	21.2
		HI PR	164	176	186	194	184	198	209	218	209	225	238	248	238	256	271	282	268	288	305	318	296	319	336	351
		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
	1225	MBh	39.7	40.4	42.4	45.2	38.8	39.5	41.4	44.1	37.8	38.6	40.4	43.1	36.9	37.6	39.4	42.0	35.1	35.7	37.4	39.9	32.5	33.1	34.7	37.0
		S/T	0.89	0.86	0.78	0.63	0.92	0.89	0.81	0.65	0.95	0.92	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	27	26	25	21	27	26	25	22	27	26	25	22	27	27	25	22	26	26	25	22	24	25	23	20
		KW	3.43	3.50	3.61	3.72	3.69	3.76	3.88	4.00	3.91	3.99	4.12	4.25	4.11	4.19	4.33	4.47	4.27	4.37	4.51	4.65	4.42	4.52	4.66	4.82
		AMPS	13.4	13.8	14.2	14.7	14.5	14.9	15.4	15.9	15.8	16.2	16.7	17.3	16.9	17.3	17.9	18.5	18.0	18.4	19.0	19.7	19.0	19.5	20.2	20.9
		HI PR	162	174	184	192	181	195	206	215	206	222	235	245	235	253	267	279	264	285	301	313	292	314	332	346
		LO PR	62	66	72	76	65	70	76	81	68	72	79	84	71	76	83	88	75	80	87	92	77	82	90	96

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

VHA42C2A

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA42C2[B/C] /CA*F049*2*/ MBR1600

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
70	1425	MBh	36.5	37.8	41.5	-	35.7	37.0	40.5	-	34.8	36.1	39.5	-	34.0	35.2	38.6	-	32.3	33.4	36.6	-	29.9	31.0	33.9	-
		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	-
		Delta T	18	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-
		KW	3.25	3.32	3.42	-	3.50	3.57	3.68	-	3.71	3.79	3.91	-	3.90	3.98	4.11	-	4.06	4.15	4.28	-	4.20	4.29	4.43	-
		AMPS	12.3	12.6	13.0	-	13.3	13.6	14.0	-	14.4	14.8	15.3	-	15.4	15.8	16.3	-	16.4	16.8	17.4	-	17.4	17.8	18.4	-
		HI PR	161	173	183	-	180	194	205	-	205	221	233	-	234	251	265	-	263	283	299	-	290	312	330	-
		LO PR	57	61	66	-	60	64	70	-	63	67	73	-	66	70	77	-	69	74	80	-	72	76	83	-
	1340	MBh	36.2	37.5	41.1	-	35.3	36.6	40.1	-	34.5	35.7	39.1	-	33.6	34.9	38.2	-	31.9	33.1	36.3	-	29.6	30.7	33.6	-
		S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.48	-
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	3.25	3.31	3.41	-	3.49	3.56	3.67	-	3.70	3.78	3.90	-	3.89	3.97	4.10	-	4.05	4.14	4.27	-	4.19	4.28	4.42	-
		AMPS	12.2	12.5	12.9	-	13.2	13.5	14.0	-	14.4	14.7	15.2	-	15.4	15.7	16.3	-	16.4	16.8	17.3	-	17.3	17.8	18.4	-
		HI PR	160	172	182	-	180	193	204	-	204	220	232	-	233	251	265	-	262	282	298	-	289	311	329	-
		LO PR	57	61	66	-	60	64	70	-	63	67	73	-	66	70	76	-	69	73	80	-	71	76	83	-
	1173	MBh	33.4	34.6	37.9	-	32.6	33.8	37.0	-	31.8	33.0	36.1	-	31.0	32.2	35.2	-	29.5	30.6	33.5	-	27.3	28.3	31.0	-
		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	-
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
		KW	3.17	3.24	3.33	-	3.41	3.48	3.58	-	3.61	3.69	3.81	-	3.80	3.88	4.00	-	3.95	4.04	4.17	-	4.09	4.17	4.31	-
		AMPS	11.9	12.2	12.6	-	12.9	13.2	13.6	-	14.0	14.3	14.8	-	14.9	15.3	15.8	-	15.9	16.3	16.8	-	16.9	17.3	17.9	-
		HI PR	155	167	177	-	174	188	198	-	198	213	225	-	226	243	257	-	254	273	289	-	281	302	319	-
		LO PR	55	59	64	-	58	62	68	-	61	65	71	-	64	68	74	-	67	71	78	-	69	74	80	-

75	1425	MBh	37.1	38.2	41.4	44.4	36.3	37.3	40.4	43.4	35.4	36.5	39.5	42.3	34.5	35.6	38.5	41.3	32.8	33.8	36.6	39.2	30.4	31.3	33.9	36.4
		S/T	0.84	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
		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
		KW	3.28	3.35	3.45	3.56	3.52	3.60	3.71	3.83	3.74	3.82	3.94	4.07	3.93	4.02	4.15	4.28	4.09	4.18	4.32	4.46	4.23	4.33	4.47	4.62
		AMPS	12.4	12.7	13.1	13.6	13.4	13.7	14.2	14.7	14.5	14.9	15.4	16.0	15.6	15.9	16.5	17.1	16.6	17.0	17.5	18.2	17.6	18.0	18.6	19.3
		HI PR	162	175	184	192	182	196	207	216	207	223	235	246	236	254	268	280	265	286	302	315	293	316	333	348
		LO PR	58	62	67	72	61	65	71	76	63	68	74	79	67	71	77	82	70	74	81	86	72	77	84	89
	1340	MBh	36.8	37.9	41.0	44.0	35.9	37.0	40.0	43.0	35.1	36.1	39.1	41.9	34.2	35.2	38.1	40.9	32.5	33.5	36.2	38.9	30.1	31.0	33.5	36.0
		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	0.61	0.40	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
		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	3.27	3.34	3.44	3.55	3.52	3.59	3.70	3.82	3.73	3.81	3.93	4.06	3.92	4.01	4.14	4.27	4.08	4.17	4.31	4.45	4.22	4.32	4.46	4.61
		AMPS	12.3	12.6	13.1	13.5	13.3	13.7	14.1	14.7	14.5	14.9	15.4	15.9	15.5	15.9	16.4	17.1	16.5	16.9	17.5	18.2	17.5	17.9	18.5	19.3
		HI PR	162	174	184	192	182	195	206	215	207	222	235	245	235	253	267	279	265	285	301	314	292	315	332	347
		LO PR	58	61	67	71	61	65	71	75	63	67	74	78	66	71	77	82	70	74	81	86	72	77	84	89
	1173	MBh	33.9	34.9	37.8	40.6	33.1	34.1	36.9	39.6	32.4	33.3	36.1	38.7	31.6	32.5	35.2	37.8	30.0	30.9	33.4	35.9	27.8	28.6	31.0	33.2
		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
		KW	3.20	3.26	3.36	3.47	3.43	3.51	3.61	3.73	3.64	3.72	3.84	3.96	3.83	3.91	4.03	4.17	3.98	4.07	4.20	4.34	4.12	4.21	4.35	4.49
		AMPS	12.0	12.3	12.7	13.2	13.0	13.3	13.7	14.2	14.1	14.5	14.9	15.5	15.1	15.5	16.0	16.6	16.1	16.4	17.0	17.7	17.0	17.4	18.0	18.7
		HI PR	157	169	178	186	176	190	200	209	200	216	228	237	228	246	259	270	257	276	292	304	284	305	322	336
		LO PR	56	59	65	69	59	63	69	73	61	65	71	76	64	69	75	80	68	72	78	84	70	74	81	86

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA42C2[B/C]/ CA*F049*2*/MBR1600

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
80	1425	MBh	37.8	38.6	41.3	44.1	36.9	37.7	40.3	43.1	36.0	36.8	39.3	42.1	35.2	35.9	38.4	41.0	33.4	34.1	36.5	39.0	30.9	31.6	33.8	36.1
		S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.98	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	0.99	0.80	0.60	1.00	1.00	0.81	0.61
		Delta T	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	20	20	18	14
		KW	3.31	3.37	3.48	3.59	3.55	3.63	3.74	3.86	3.77	3.85	3.97	4.10	3.96	4.05	4.18	4.32	4.13	4.22	4.36	4.50	4.27	4.36	4.51	4.66
		AMPS	12.5	12.8	13.2	13.7	13.5	13.8	14.3	14.8	14.7	15.0	15.5	16.1	15.7	16.1	16.6	17.3	16.7	17.1	17.7	18.4	17.7	18.2	18.8	19.5
		HI PR	164	176	186	194	184	198	209	218	209	225	238	248	238	256	271	282	268	289	305	318	296	319	337	351
		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
	1340	MBh	37.4	38.2	40.9	43.7	36.5	37.3	39.9	42.7	35.7	36.5	39.0	41.6	34.8	35.6	38.0	40.6	33.1	33.8	36.1	38.6	30.6	31.3	33.4	35.7
		S/T	0.91	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.98	0.80	0.59
		Delta T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	23	22	20	16	21	21	18	15
		KW	3.30	3.37	3.47	3.58	3.54	3.62	3.73	3.85	3.76	3.84	3.96	4.09	3.95	4.04	4.17	4.31	4.12	4.21	4.34	4.49	4.26	4.35	4.49	4.64
		AMPS	12.5	12.8	13.2	13.7	13.5	13.8	14.3	14.8	14.6	15.0	15.5	16.1	15.7	16.0	16.6	17.2	16.7	17.1	17.7	18.3	17.7	18.1	18.7	19.4
		HI PR	163	176	186	194	183	197	208	217	209	224	237	247	238	256	270	282	267	288	304	317	295	318	336	350
		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
	1173	MBh	34.5	35.3	37.7	40.3	33.7	34.5	36.8	39.4	32.9	33.6	36.0	38.4	32.1	32.8	35.1	37.5	30.5	31.2	33.3	35.6	28.3	28.9	30.9	33.0
		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	0.94	0.76	0.57	1.01	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	3.22	3.29	3.39	3.49	3.46	3.53	3.64	3.76	3.67	3.75	3.87	3.99	3.86	3.94	4.07	4.20	4.02	4.10	4.24	4.38	4.15	4.24	4.38	4.53
		AMPS	12.1	12.4	12.8	13.3	13.1	13.4	13.9	14.4	14.2	14.6	15.1	15.6	15.2	15.6	16.1	16.7	16.2	16.6	17.2	17.8	17.2	17.6	18.2	18.9
		HI PR	159	171	180	188	178	191	202	211	202	218	230	240	230	248	262	273	259	279	295	307	286	308	326	340
		LO PR	56	60	66	70	60	63	69	74	62	66	72	77	65	69	76	81	68	73	79	84	71	75	82	87

85	1425	MBh	38.5	39.2	41.1	43.8	37.6	38.3	40.1	42.8	36.7	37.4	39.1	41.8	35.8	36.5	38.2	40.7	34.0	34.6	36.3	38.7	31.5	32.1	33.6	35.9
		S/T	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79
		Delta T	24	24	22	19	24	24	23	20	24	24	23	20	23	24	23	20	22	22	23	20	20	21	21	18
		KW	3.33	3.40	3.50	3.61	3.58	3.66	3.77	3.89	3.80	3.88	4.01	4.14	4.00	4.08	4.21	4.35	4.16	4.25	4.39	4.54	4.30	4.40	4.54	4.70
		AMPS	12.6	12.9	13.3	13.8	13.6	14.0	14.4	15.0	14.8	15.2	15.7	16.3	15.8	16.2	16.8	17.4	16.9	17.3	17.9	18.6	17.9	18.3	19.0	19.7
		HI PR	166	178	188	196	186	200	211	220	211	227	240	250	241	259	274	285	271	291	308	321	299	322	340	355
		LO PR	59	63	69	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	78	86	91
	1340	MBh	38.1	38.8	40.6	43.4	37.2	37.9	39.7	42.4	36.3	37.0	38.8	41.3	35.4	36.1	37.8	40.3	33.6	34.3	35.9	38.3	31.2	31.8	33.3	35.5
		S/T	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.77	1.00	1.00	0.95	0.77
		Delta T	25	24	23	20	25	25	23	20	25	25	23	20	24	25	24	20	23	24	23	20	21	22	22	19
		KW	3.32	3.39	3.50	3.61	3.57	3.65	3.76	3.88	3.79	3.87	4.00	4.13	3.99	4.07	4.20	4.34	4.15	4.24	4.38	4.53	4.29	4.39	4.53	4.68
		AMPS	12.6	12.9	13.3	13.8	13.6	13.9	14.4	14.9	14.8	15.1	15.6	16.2	15.8	16.2	16.7	17.4	16.8	17.2	17.8	18.5	17.8	18.3	18.9	19.6
		HI PR	165	178	188	196	185	199	211	220	211	227	239	250	240	258	273	284	270	291	307	320	298	321	339	354
		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
	1173	MBh	35.1	35.8	37.5	40.0	34.3	35.0	36.6	39.1	33.5	34.2	35.8	38.2	32.7	33.3	34.9	37.2	31.1	31.7	33.2	35.4	28.8	29.3	30.7	32.8
		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	0.74
		Delta T	25	25	24	20	26	25	24	21	26	25	24	21	26	25	24	21	24	25	24	20	23	23	22	19
		KW	3.25	3.31	3.41	3.52	3.49	3.56	3.67	3.79	3.70	3.78	3.90	4.03	3.89	3.97	4.10	4.23	4.05	4.14	4.27	4.41	4.19	4.28	4.42	4.57
		AMPS	12.2	12.5	12.9	13.4	13.2	13.5	14.0	14.5	14.4	14.7	15.2	15.8	15.4	15.7	16.3	16.9	16.4	16.8	17.3	18.0	17.3	17.8	18.4	19.1
		HI PR	160	172	182	190	180	193	204	213	204	220	232	242	233	250	265	276	262	282	298	310	289	311	329	343
		LO PR	57	61	66	71	60	64	70	75	63	67	73	77	66	70	76	81	69	73	80	85	71	76	83	88

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

VHA42C2[B/C]

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA48C2A / CCA57FCC/ BBA60A2A

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
70	1800	MBh	44.6	46.2	50.6	-	43.5	45.1	49.4	-	42.5	44.1	48.3	-	41.5	43.0	47.1	-	39.4	40.8	44.7	-	36.5	37.8	41.4	-
		S/T	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.70	0.48	-	0.87	0.72	0.50	-	0.87	0.73	0.51	-
		Delta T	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-
		KW	3.93	4.01	4.13	-	4.23	4.32	4.45	-	4.49	4.59	4.73	-	4.72	4.82	4.98	-	4.92	5.03	5.19	-	5.09	5.20	5.37	-
		AMPS	15.6	15.9	16.5	-	16.8	17.3	17.8	-	18.3	18.8	19.4	-	19.6	20.1	20.8	-	20.9	21.4	22.1	-	22.1	22.7	23.5	-
		HI PR	165	178	187	-	185	199	210	-	211	227	239	-	240	258	272	-	270	290	307	-	298	321	339	-
		LO PR	64	68	74	-	67	72	78	-	70	74	81	-	73	78	85	-	77	82	89	-	80	85	92	-
	1600	MBh	43.3	44.9	49.1	-	42.3	43.8	48.0	-	41.3	42.8	46.9	-	40.3	41.7	45.7	-	38.2	39.6	43.4	-	35.4	36.7	40.2	-
		S/T	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.83	0.70	0.48	-
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	3.90	3.98	4.10	-	4.19	4.28	4.42	-	4.45	4.55	4.69	-	4.68	4.78	4.94	-	4.88	4.98	5.15	-	5.05	5.16	5.33	-
		AMPS	15.4	15.8	16.3	-	16.7	17.1	17.7	-	18.2	18.6	19.2	-	19.4	19.9	20.6	-	20.7	21.2	21.9	-	21.9	22.5	23.3	-
		HI PR	163	176	186	-	183	197	208	-	208	224	237	-	237	255	270	-	267	287	304	-	295	318	335	-
		LO PR	63	67	73	-	67	71	77	-	69	74	80	-	73	77	84	-	76	81	88	-	79	84	91	-
	1400	MBh	39.9	41.4	45.4	-	39.0	40.4	44.3	-	38.1	39.5	43.3	-	37.2	38.5	42.2	-	35.3	36.6	40.1	-	32.7	33.9	37.1	-
		S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.80	0.67	0.46	-	0.80	0.67	0.47	-
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
		KW	3.81	3.88	4.00	-	4.09	4.18	4.31	-	4.34	4.44	4.58	-	4.57	4.67	4.82	-	4.76	4.86	5.02	-	4.92	5.03	5.19	-
		AMPS	15.0	15.4	15.9	-	16.2	16.6	17.2	-	17.6	18.1	18.7	-	18.9	19.3	20.0	-	20.1	20.6	21.3	-	21.3	21.9	22.6	-
		HI PR	158	171	180	-	178	191	202	-	202	218	230	-	230	248	262	-	259	279	294	-	286	308	325	-
		LO PR	61	65	71	-	65	69	75	-	67	71	78	-	70	75	82	-	74	79	86	-	76	81	89	-

75	1800	MBh	45.3	46.7	50.5	54.2	44.3	45.6	49.3	53.0	43.2	44.5	48.2	51.7	42.2	43.4	47.0	50.4	40.1	41.2	44.6	47.9	37.1	38.2	41.4	44.4
		S/T	0.87	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	0.99	0.88	0.67	0.43	0.99	0.89	0.67	0.43
		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	3.96	4.04	4.17	4.30	4.26	4.35	4.49	4.63	4.53	4.62	4.77	4.93	4.76	4.86	5.02	5.19	4.96	5.07	5.24	5.41	5.13	5.25	5.42	5.60
		AMPS	15.7	16.1	16.6	17.2	17.0	17.4	18.0	18.7	18.5	19.0	19.6	20.3	19.8	20.3	21.0	21.8	21.1	21.6	22.3	23.2	22.4	22.9	23.7	24.6
		HI PR	167	179	189	198	187	201	213	222	213	229	242	252	242	261	275	287	273	293	310	323	301	324	342	357
		LO PR	64	68	75	79	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	80	85	93	99
	1600	MBh	44.0	45.3	49.0	52.6	43.0	44.3	47.9	51.4	42.0	43.2	46.8	50.2	40.9	42.2	45.6	49.0	38.9	40.0	43.3	46.5	36.0	37.1	40.2	43.1
		S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.59	0.38	0.91	0.81	0.61	0.39	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
		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	3.93	4.01	4.13	4.27	4.23	4.32	4.45	4.60	4.49	4.59	4.73	4.89	4.72	4.82	4.98	5.15	4.92	5.03	5.19	5.37	5.09	5.20	5.37	5.55
		AMPS	15.6	15.9	16.5	17.1	16.8	17.3	17.8	18.5	18.3	18.8	19.4	20.2	19.6	20.1	20.8	21.6	20.9	21.4	22.1	23.0	22.1	22.7	23.5	24.4
		HI PR	165	178	188	196	185	199	210	219	211	227	239	250	240	258	273	284	270	290	307	320	298	321	339	353
		LO PR	64	68	74	79	67	72	78	83	70	74	81	86	73	78	85	91	77	82	89	95	80	85	92	98
	1400	MBh	40.6	41.8	45.3	48.6	39.7	40.9	44.2	47.5	38.7	39.9	43.2	46.3	37.8	38.9	42.1	45.2	35.9	37.0	40.0	42.9	33.3	34.2	37.1	39.8
		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	0.87	0.78	0.59	0.38	0.91	0.81	0.61	0.40	0.91	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
		KW	3.84	3.92	4.04	4.16	4.12	4.21	4.34	4.48	4.38	4.47	4.62	4.77	4.61	4.71	4.86	5.02	4.80	4.90	5.06	5.23	4.96	5.07	5.24	5.41
		AMPS	15.1	15.5	16.0	16.6	16.4	16.8	17.3	18.0	17.8	18.3	18.9	19.6	19.1	19.5	20.2	21.0	20.3	20.8	21.5	22.3	21.5	22.1	22.8	23.7
		HI PR	160	172	182	190	180	193	204	213	204	220	232	242	233	250	264	276	262	282	297	310	289	311	329	343
		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

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

VHA48C2A

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA48C2A / CCA57FCC/ BBA60A2A

			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
80	1800	MBh	46.1	47.1	50.4	53.8	45.1	46.0	49.2	52.6	44.0	45.0	48.0	51.3	42.9	43.9	46.9	50.1	40.8	41.7	44.5	47.6	37.8	38.6	41.2	44.1
		S/T	0.95	0.89	0.73	0.54	1.00	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.59	1.00	1.00	0.83	0.62	1.00	1.00	0.83	0.62
		Delta T	22	21	19	15	23	22	19	15	22	22	19	15	22	22	19	15	21	21	19	15	19	20	18	14
		KW	3.99	4.07	4.20	4.34	4.29	4.39	4.53	4.67	4.56	4.66	4.81	4.97	4.80	4.90	5.06	5.23	5.00	5.11	5.28	5.46	5.17	5.29	5.46	5.65
		AMPS	15.8	16.2	16.8	17.4	17.2	17.6	18.2	18.9	18.7	19.1	19.8	20.5	20.0	20.5	21.2	22.0	21.3	21.8	22.6	23.4	22.6	23.1	23.9	24.9
		HI PR	168	181	191	200	189	203	215	224	215	231	244	255	245	263	278	290	275	296	313	326	304	327	346	360
		LO PR	65	69	75	80	69	73	80	85	71	76	83	88	75	80	87	93	78	83	91	97	81	86	94	100
	1600	MBh	44.8	45.8	48.9	52.3	43.8	44.7	47.8	51.1	42.7	43.6	46.6	49.8	41.7	42.6	45.5	48.6	39.6	40.5	43.2	46.2	36.7	37.5	40.0	42.8
		S/T	0.91	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.96	0.90	0.74	0.55	0.99	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.98	0.79	0.59
		Delta T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	23	22	20	16	21	21	18	15
		KW	3.96	4.04	4.17	4.30	4.26	4.35	4.49	4.63	4.53	4.62	4.77	4.93	4.76	4.86	5.02	5.19	4.96	5.07	5.24	5.41	5.13	5.25	5.42	5.60
		AMPS	15.7	16.1	16.6	17.3	17.0	17.4	18.0	18.7	18.5	19.0	19.6	20.3	19.8	20.3	21.0	21.8	21.1	21.6	22.3	23.2	22.4	22.9	23.7	24.6
		HI PR	167	179	189	198	187	201	213	222	213	229	242	252	242	261	275	287	273	293	310	323	301	324	342	357
		LO PR	64	68	75	80	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	80	85	93	99
	1400	MBh	41.3	42.2	45.1	48.3	40.4	41.3	44.1	47.1	39.4	40.3	43.0	46.0	38.5	39.3	42.0	44.9	36.5	37.3	39.9	42.6	33.8	34.6	36.9	39.5
		S/T	0.87	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	0.99	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	3.87	3.95	4.07	4.20	4.16	4.25	4.38	4.52	4.42	4.51	4.66	4.81	4.64	4.74	4.90	5.06	4.84	4.94	5.10	5.27	5.00	5.11	5.28	5.46
		AMPS	15.3	15.6	16.2	16.8	16.5	16.9	17.5	18.2	18.0	18.4	19.0	19.8	19.2	19.7	20.4	21.2	20.5	21.0	21.7	22.6	21.7	22.3	23.0	23.9
		HI PR	162	174	184	192	181	195	206	215	206	222	234	245	235	253	267	279	264	284	300	313	292	314	332	346
		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

85	1800	MBh	46.9	47.9	50.1	53.5	45.9	46.7	49.0	52.2	44.8	45.6	47.8	51.0	43.7	44.5	46.6	49.7	41.5	42.3	44.3	47.3	38.4	39.2	41.0	43.8
		S/T	1.00	0.96	0.87	0.70	1.00	1.00	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	1.00	0.81
		Delta T	24	23	22	19	23	24	22	19	23	23	22	19	22	23	23	20	21	22	22	19	20	20	21	18
		KW	4.02	4.11	4.23	4.37	4.33	4.42	4.56	4.71	4.60	4.70	4.85	5.01	4.84	4.95	5.11	5.28	5.04	5.15	5.32	5.50	5.22	5.33	5.51	5.70
		AMPS	16.0	16.4	16.9	17.6	17.3	17.7	18.3	19.0	18.8	19.3	20.0	20.7	20.2	20.7	21.4	22.2	21.5	22.0	22.8	23.7	22.8	23.4	24.2	25.1
		HI PR	170	183	193	202	191	205	217	226	217	234	247	257	247	266	281	293	278	299	316	330	307	331	349	364
		LO PR	66	70	76	81	69	74	80	86	72	77	84	89	76	80	88	94	79	84	92	98	82	87	95	101
	1600	MBh	45.6	46.5	48.7	51.9	44.5	45.4	47.5	50.7	43.5	44.3	46.4	49.5	42.4	43.2	45.3	48.3	40.3	41.1	43.0	45.9	37.3	38.0	39.8	42.5
		S/T	0.95	0.92	0.83	0.67	0.98	0.95	0.86	0.70	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
		Delta T	25	24	23	20	25	25	23	20	25	25	23	20	24	25	24	20	23	24	23	20	21	22	22	19
		KW	3.99	4.07	4.20	4.34	4.29	4.39	4.53	4.67	4.56	4.66	4.81	4.97	4.80	4.90	5.06	5.23	5.00	5.11	5.28	5.46	5.17	5.29	5.46	5.65
		AMPS	15.8	16.2	16.8	17.4	17.2	17.6	18.2	18.9	18.7	19.1	19.8	20.5	20.0	20.5	21.2	22.0	21.3	21.8	22.6	23.4	22.6	23.1	23.9	24.9
		HI PR	168	181	191	200	189	203	215	224	215	231	244	255	245	263	278	290	275	296	313	326	304	327	346	360
		LO PR	65	69	75	80	69	73	80	85	71	76	83	88	75	80	87	93	78	83	91	97	81	86	94	100
	1400	MBh	42.1	42.9	44.9	47.9	41.1	41.9	43.9	46.8	40.1	40.9	42.8	45.7	39.1	39.9	41.8	44.6	37.2	37.9	39.7	42.3	34.4	35.1	36.8	39.2
		S/T	0.92	0.88	0.80	0.65	0.95	0.92	0.83	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	0.92	0.74
		Delta T	25	25	24	20	26	25	24	21	26	25	24	21	26	25	24	21	24	25	24	20	23	23	22	19
		KW	3.90	3.98	4.10	4.23	4.19	4.28	4.42	4.56	4.45	4.55	4.69	4.85	4.68	4.78	4.94	5.10	4.88	4.98	5.15	5.32	5.04	5.16	5.33	5.51
		AMPS	15.4	15.8	16.3	16.9	16.7	17.1	17.7	18.3	18.1	18.6	19.2	20.0	19.4	19.9	20.6	21.4	20.7	21.2	21.9	22.8	21.9	22.5	23.2	24.1
		HI PR	163	176	186	194	183	197	208	217	208	224	237	247	237	255	270	281	267	287	303	316	295	317	335	350
		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

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

VHA48C2A

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA48C2[B/C] /CA*F060*2*/ MBR1600

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
70	1669	MBh	42.8	44.3	48.6	-	41.8	43.3	47.4	-	40.8	42.3	46.3	-	39.8	41.2	45.2	-	37.8	39.2	42.9	-	35.0	36.3	39.7	-
		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	0.70	0.48	-	0.84	0.70	0.49	-
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	18	15	12	-	17	15	11	-	16	14	11	-
		KW	3.57	3.65	3.76	-	3.84	3.93	4.05	-	4.08	4.17	4.31	-	4.30	4.39	4.53	-	4.48	4.58	4.73	-	4.63	4.74	4.89	-
		AMPS	13.6	13.9	14.4	-	14.7	15.0	15.5	-	16.0	16.4	16.9	-	17.1	17.5	18.1	-	18.2	18.7	19.3	-	19.3	19.8	20.5	-
		HI PR	164	176	186	-	184	198	209	-	209	225	237	-	238	256	270	-	268	288	304	-	296	318	336	-
		LO PR	58	62	67	-	61	65	71	-	64	68	74	-	67	71	78	-	70	75	81	-	72	77	84	-
	1550	MBh	42.3	43.9	48.1	-	41.4	42.9	47.0	-	40.4	41.8	45.8	-	39.4	40.8	44.7	-	37.4	38.8	42.5	-	34.7	35.9	39.4	-
		S/T	0.72	0.60	0.41	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.45	-	0.82	0.68	0.47	-	0.82	0.69	0.48	-
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	3.56	3.64	3.75	-	3.83	3.92	4.04	-	4.07	4.16	4.30	-	4.29	4.38	4.52	-	4.47	4.56	4.72	-	4.62	4.72	4.88	-
		AMPS	13.5	13.9	14.3	-	14.6	15.0	15.5	-	15.9	16.3	16.9	-	17.0	17.5	18.1	-	18.2	18.6	19.2	-	19.2	19.7	20.4	-
		HI PR	163	176	185	-	183	197	208	-	208	224	237	-	237	255	270	-	267	287	303	-	295	317	335	-
		LO PR	58	61	67	-	61	65	71	-	63	68	74	-	67	71	77	-	70	74	81	-	72	77	84	-
	1356	MBh	39.1	40.5	44.4	-	38.2	39.6	43.3	-	37.3	38.6	42.3	-	36.4	37.7	41.3	-	34.5	35.8	39.2	-	32.0	33.2	36.3	-
		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	0.46	-	0.79	0.66	0.46	-
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
		KW	3.48	3.55	3.66	-	3.74	3.82	3.94	-	3.98	4.06	4.19	-	4.18	4.27	4.41	-	4.35	4.45	4.60	-	4.51	4.61	4.76	-
		AMPS	13.2	13.5	13.9	-	14.2	14.6	15.1	-	15.5	15.9	16.4	-	16.6	17.0	17.5	-	17.6	18.1	18.7	-	18.7	19.2	19.8	-
		HI PR	158	170	180	-	178	191	202	-	202	217	230	-	230	248	261	-	259	279	294	-	286	308	325	-
		LO PR	56	60	65	-	59	63	69	-	62	65	71	-	65	69	75	-	68	72	79	-	70	75	81	-

75	1669	MBh	43.5	44.8	48.5	52.0	42.5	43.7	47.3	50.8	41.5	42.7	46.2	49.6	40.5	41.6	45.1	48.4	38.4	39.6	42.8	46.0	35.6	36.7	39.7	42.6
		S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.38	0.88	0.79	0.60	0.38	0.91	0.82	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	19	15	10	20	19	15	11	20	19	15	11	20	18	15	10	19	17	14	10
		KW	3.60	3.68	3.79	3.91	3.88	3.96	4.08	4.22	4.12	4.21	4.34	4.49	4.33	4.43	4.57	4.73	4.51	4.62	4.77	4.93	4.67	4.78	4.94	5.10
		AMPS	13.7	14.0	14.5	15.0	14.8	15.2	15.7	16.3	16.1	16.5	17.1	17.7	17.3	17.7	18.3	19.0	18.4	18.8	19.5	20.2	19.5	20.0	20.7	21.5
		HI PR	165	178	188	196	186	200	211	220	211	227	240	250	240	259	273	285	270	291	307	320	299	321	339	354
		LO PR	59	62	68	72	62	66	72	77	64	68	75	80	68	72	78	84	71	75	82	88	73	78	85	91
	1550	MBh	43.1	44.3	48.0	51.5	42.1	43.3	46.9	50.3	41.1	42.3	45.7	49.1	40.1	41.2	44.6	47.9	38.0	39.2	42.4	45.5	35.2	36.3	39.3	42.2
		S/T	0.81	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	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	3.59	3.67	3.78	3.90	3.87	3.95	4.07	4.21	4.11	4.20	4.33	4.48	4.32	4.42	4.56	4.71	4.50	4.60	4.76	4.92	4.66	4.76	4.92	5.09
		AMPS	13.7	14.0	14.5	15.0	14.8	15.1	15.7	16.2	16.1	16.5	17.0	17.7	17.2	17.6	18.2	18.9	18.3	18.8	19.4	20.2	19.4	19.9	20.6	21.4
		HI PR	165	177	187	195	185	199	210	219	210	226	239	249	240	258	272	284	270	290	306	319	298	320	338	353
		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
	1356	MBh	39.7	40.9	44.3	47.5	38.8	40.0	43.3	46.4	37.9	39.0	42.2	45.3	37.0	38.1	41.2	44.2	35.1	36.2	39.1	42.0	32.5	33.5	36.3	38.9
		S/T	0.79	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	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	21	19	16	11	21	20	16	11	21	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10
		KW	3.51	3.58	3.69	3.81	3.77	3.85	3.98	4.10	4.01	4.09	4.23	4.36	4.22	4.31	4.45	4.60	4.39	4.49	4.64	4.79	4.54	4.64	4.80	4.96
		AMPS	13.3	13.6	14.1	14.6	14.4	14.7	15.2	15.8	15.6	16.0	16.6	17.2	16.7	17.1	17.7	18.4	17.8	18.3	18.9	19.6	18.9	19.4	20.0	20.8
		HI PR	160	172	182	190	179	193	204	213	204	220	232	242	232	250	264	275	261	281	297	310	289	311	328	342
		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

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

VHA48C2[B/C]

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA48C2[B/C] /CA*F060*2*/ MBR1600

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
80	1669	MBh	44.3	45.2	48.3	51.6	43.2	44.2	47.2	50.4	42.2	43.1	46.1	49.2	41.2	42.1	44.9	48.0	39.1	40.0	42.7	45.6	36.2	37.0	39.6	42.3
		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	19	15	22	22	19	15	23	22	19	15	23	22	19	15	22	21	19	15	20	20	17	14
		KW	3.63	3.71	3.82	3.94	3.91	3.99	4.12	4.25	4.15	4.24	4.38	4.53	4.37	4.47	4.61	4.77	4.55	4.65	4.81	4.97	4.71	4.82	4.98	5.15
		AMPS	13.8	14.2	14.6	15.2	15.0	15.3	15.8	16.4	16.3	16.7	17.2	17.9	17.4	17.8	18.5	19.2	18.6	19.0	19.7	20.4	19.7	20.2	20.9	21.7
		HI PR	167	180	190	198	187	202	213	222	213	229	242	253	243	261	276	288	273	294	310	324	302	325	343	358
		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
	1550	MBh	43.8	44.8	47.8	51.1	42.8	43.7	46.7	49.9	41.8	42.7	45.6	48.8	40.8	41.7	44.5	47.6	38.7	39.6	42.3	45.2	35.9	36.7	39.2	41.9
		S/T	0.89	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.95	0.89	0.72	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
		Delta T	23	22	19	15	24	23	20	16	24	23	20	16	24	23	20	16	23	22	19	16	21	21	18	15
		KW	3.62	3.70	3.81	3.93	3.90	3.98	4.11	4.24	4.14	4.23	4.37	4.51	4.36	4.45	4.60	4.75	4.54	4.64	4.80	4.96	4.70	4.81	4.96	5.13
		AMPS	13.8	14.1	14.6	15.1	14.9	15.3	15.8	16.4	16.2	16.6	17.2	17.9	17.4	17.8	18.4	19.1	18.5	19.0	19.6	20.4	19.6	20.1	20.8	21.6
		HI PR	166	179	189	197	187	201	212	221	212	229	241	252	242	260	275	287	272	293	309	323	301	324	342	357
		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
	1356	MBh	40.4	41.3	44.2	47.2	39.5	40.4	43.1	46.1	38.6	39.4	42.1	45.0	37.6	38.4	41.1	43.9	35.7	36.5	39.0	41.7	33.1	33.8	36.1	38.6
		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
		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	3.53	3.61	3.72	3.84	3.80	3.88	4.01	4.14	4.04	4.13	4.26	4.40	4.25	4.34	4.48	4.63	4.43	4.53	4.67	4.83	4.58	4.68	4.84	5.00
		AMPS	13.4	13.7	14.2	14.7	14.5	14.9	15.4	15.9	15.8	16.2	16.7	17.4	16.9	17.3	17.9	18.6	18.0	18.4	19.1	19.8	19.1	19.5	20.2	21.0
		HI PR	162	174	184	191	181	195	206	215	206	222	234	244	235	253	267	278	264	284	300	313	292	314	332	346
		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

85	1669	MBh	45.0	45.9	48.1	51.3	44.0	44.8	47.0	50.1	42.9	43.8	45.8	48.9	41.9	42.7	44.7	47.7	39.8	40.6	42.5	45.3	36.9	37.6	39.4	42.0
		S/T	0.96	0.92	0.83	0.68	0.99	0.96	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	0.96	0.77
		Delta T	24	23	22	19	24	24	22	19	24	24	22	19	23	24	22	19	22	22	22	19	20	21	21	18
		KW	3.66	3.74	3.85	3.98	3.94	4.02	4.15	4.29	4.19	4.28	4.42	4.56	4.40	4.50	4.65	4.81	4.59	4.69	4.85	5.01	4.75	4.86	5.02	5.19
		AMPS	14.0	14.3	14.8	15.3	15.1	15.5	16.0	16.6	16.4	16.8	17.4	18.1	17.6	18.0	18.6	19.3	18.7	19.2	19.8	20.6	19.9	20.4	21.1	21.9
		HI PR	169	182	192	200	189	204	215	224	215	232	245	255	245	264	279	291	276	297	313	327	305	328	346	361
		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
	1550	MBh	44.6	45.4	47.6	50.8	43.5	44.4	46.5	49.6	42.5	43.3	45.4	48.4	41.5	42.3	44.3	47.2	39.4	40.2	42.1	44.9	36.5	37.2	39.0	41.6
		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	0.89	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.94	0.76
		Delta T	25	24	23	20	25	25	23	20	25	25	23	20	25	25	24	20	23	24	23	20	22	22	22	19
		KW	3.65	3.73	3.84	3.97	3.93	4.01	4.14	4.28	4.18	4.27	4.41	4.55	4.39	4.49	4.64	4.79	4.58	4.68	4.84	5.00	4.74	4.85	5.01	5.18
		AMPS	13.9	14.3	14.7	15.3	15.1	15.4	15.9	16.6	16.4	16.8	17.4	18.0	17.5	18.0	18.6	19.3	18.7	19.1	19.8	20.6	19.8	20.3	21.0	21.8
		HI PR	168	181	191	199	189	203	214	224	215	231	244	254	244	263	278	290	275	296	312	326	304	327	345	360
		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
	1356	MBh	41.2	41.9	43.9	46.9	40.2	41.0	42.9	45.8	39.2	40.0	41.9	44.7	38.3	39.0	40.9	43.6	36.4	37.1	38.8	41.4	33.7	34.3	36.0	38.4
		S/T	0.90	0.87	0.79	0.64	0.94	0.90	0.82	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.90	0.73
		Delta T	25	25	23	20	26	25	24	21	26	25	24	21	26	25	24	21	25	25	24	20	23	23	22	19
		KW	3.56	3.64	3.75	3.87	3.83	3.92	4.04	4.17	4.07	4.16	4.30	4.44	4.29	4.38	4.52	4.67	4.46	4.56	4.71	4.87	4.62	4.72	4.88	5.04
		AMPS	13.5	13.9	14.3	14.9	14.6	15.0	15.5	16.1	15.9	16.3	16.9	17.5	17.0	17.5	18.1	18.7	18.1	18.6	19.2	20.0	19.2	19.7	20.4	21.2
		HI PR	163	176	185	193	183	197	208	217	208	224	237	247	237	255	269	281	267	287	303	316	295	317	335	349
		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

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

VHA48C2[B/C]

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA60C2A / CCA60FCC/ BBA60A2A

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
70	2250	MBh	54.2	56.2	61.6	-	53.0	54.9	60.1	-	51.7	53.6	58.7	-	50.4	52.3	57.3	-	47.9	49.7	54.4	-	44.4	46.0	50.4	-		
		S/T	0.77	0.64	0.44	-	0.80	0.67	0.46	-	0.82	0.68	0.47	-	0.84	0.70	0.49	-	0.88	0.73	0.51	-	0.88	0.74	0.51	-		
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-		
		KW	4.97	5.08	5.24	-	5.35	5.47	5.64	-	5.69	5.81	6.00	-	5.99	6.12	6.32	-	6.24	6.37	6.59	-	6.45	6.60	6.82	-		
		AMPS	19.4	19.9	20.6	-	21.1	21.6	22.3	-	23.0	23.5	24.4	-	24.6	25.2	26.1	-	26.2	26.9	27.8	-	27.8	28.6	29.5	-		
		HI PR	174	188	198	-	196	210	222	-	222	239	253	-	253	273	288	-	285	307	324	-	315	339	358	-		
		LO PR	63	67	73	-	66	71	77	-	69	73	80	-	72	77	84	-	76	81	88	-	78	83	91	-		
	1965	MBh	52.6	54.6	59.8	-	51.4	53.3	58.4	-	50.2	52.0	57.0	-	49.0	50.8	55.6	-	46.5	48.2	52.8	-	43.1	44.7	48.9	-		
		S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.47	-	0.83	0.70	0.48	-	0.84	0.70	0.49	-		
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-		
		KW	4.94	5.04	5.20	-	5.31	5.43	5.60	-	5.64	5.77	5.95	-	5.94	6.07	6.26	-	6.19	6.32	6.53	-	6.40	6.54	6.76	-		
		AMPS	19.3	19.7	20.4	-	20.9	21.4	22.1	-	22.8	23.3	24.1	-	24.4	25.0	25.8	-	26.0	26.6	27.6	-	27.6	28.3	29.3	-		
		HI PR	173	186	196	-	194	208	220	-	220	237	250	-	251	270	285	-	282	304	321	-	312	335	354	-		
		LO PR	62	66	72	-	66	70	76	-	68	73	79	-	72	76	83	-	75	80	87	-	78	83	90	-		
	1750	MBh	50.0	51.8	56.8	-	48.8	50.6	55.5	-	47.7	49.4	54.1	-	46.5	48.2	52.8	-	44.2	45.8	50.2	-	40.9	42.4	46.5	-		
		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	-		
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-		
		KW	4.86	4.96	5.11	-	5.23	5.34	5.51	-	5.55	5.67	5.85	-	5.84	5.97	6.16	-	6.08	6.22	6.42	-	6.29	6.43	6.65	-		
		AMPS	18.9	19.4	20.0	-	20.5	21.0	21.7	-	22.3	22.9	23.7	-	23.9	24.5	25.4	-	25.5	26.1	27.0	-	27.1	27.7	28.7	-		
		HI PR	169	182	192	-	190	204	216	-	216	232	245	-	246	264	279	-	276	298	314	-	305	329	347	-		
		LO PR	61	65	71	-	64	68	75	-	67	71	78	-	70	75	82	-	74	78	85	-	76	81	88	-		

75	2250	MBh	55.1	56.8	61.4	65.9	53.9	55.4	60.0	64.4	52.6	54.1	58.6	62.9	51.3	52.8	57.2	61.3	48.7	50.2	54.3	58.3	45.1	46.5	50.3	54.0
		S/T	0.87	0.78	0.59	0.38	0.91	0.81	0.61	0.39	0.93	0.83	0.63	0.40	0.96	0.86	0.65	0.42	1.00	0.89	0.67	0.43	1.00	0.90	0.68	0.44
		Delta T	20	18	15	10	20	18	15	10	20	18	15	10	20	19	15	10	20	18	15	10	18	17	14	10
		KW	5.01	5.12	5.28	5.45	5.40	5.51	5.69	5.88	5.74	5.86	6.05	6.25	6.04	6.17	6.37	6.58	6.29	6.43	6.64	6.87	6.51	6.65	6.88	7.11
		AMPS	19.6	20.1	20.8	21.6	21.3	21.8	22.6	23.4	23.2	23.8	24.6	25.5	24.8	25.5	26.3	27.4	26.5	27.2	28.1	29.2	28.1	28.8	29.8	31.0
		HI PR	176	189	200	209	198	213	224	234	225	242	255	266	256	275	291	303	288	310	327	341	318	342	361	377
		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
	1965	MBh	53.5	55.1	59.7	64.0	52.3	53.8	58.3	62.5	51.0	52.6	56.9	61.0	49.8	51.3	55.5	59.6	47.3	48.7	52.7	56.6	43.8	45.1	48.8	52.4
		S/T	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.38	0.89	0.79	0.60	0.39	0.91	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.96	0.86	0.65	0.42
		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	4.98	5.08	5.24	5.41	5.36	5.47	5.64	5.83	5.69	5.81	6.00	6.20	5.99	6.12	6.32	6.53	6.24	6.38	6.59	6.81	6.45	6.60	6.82	7.05
		AMPS	19.4	19.9	20.6	21.4	21.1	21.6	22.3	23.2	23.0	23.6	24.4	25.3	24.6	25.2	26.1	27.1	26.2	26.9	27.8	28.9	27.9	28.6	29.6	30.7
		HI PR	174	188	198	207	196	210	222	232	222	239	253	264	253	273	288	300	285	307	324	338	315	339	358	373
		LO PR	63	67	73	78	66	71	77	82	69	73	80	85	72	77	84	90	76	81	88	94	78	83	91	97
	1750	MBh	50.9	52.4	56.7	60.8	49.7	51.1	55.4	59.4	48.5	49.9	54.0	58.0	47.3	48.7	52.7	56.6	44.9	46.3	50.1	53.8	41.6	42.9	46.4	49.8
		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
		KW	4.90	5.00	5.16	5.32	5.27	5.38	5.55	5.73	5.60	5.72	5.90	6.10	5.89	6.02	6.21	6.42	6.13	6.27	6.48	6.69	6.35	6.49	6.70	6.93
		AMPS	19.1	19.6	20.2	21.0	20.7	21.2	21.9	22.8	22.5	23.1	23.9	24.8	24.1	24.8	25.6	26.6	25.7	26.4	27.3	28.4	27.3	28.0	29.0	30.1
		HI PR	171	184	194	202	192	206	218	227	218	235	248	258	248	267	282	294	279	301	317	331	309	332	351	366
		LO PR	61	65	71	76	65	69	75	80	68	72	78	84	71	75	82	88	74	79	86	92	77	82	89	95

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA60C2A / CCA60FCC/ BBA60A2A

			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
80	2250	MBh	56.1	57.3	61.3	65.5	54.8	56.0	59.8	64.0	53.5	54.7	58.4	62.4	52.2	53.3	57.0	60.9	49.6	50.7	54.1	57.9	45.9	46.9	50.2	53.6
		S/T	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.96	0.78	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	22	21	18	15	22	21	19	15	22	21	19	15	21	22	19	15	20	21	18	15	19	19	17	14
		KW	5.05	5.16	5.32	5.49	5.44	5.56	5.74	5.92	5.78	5.91	6.10	6.30	6.09	6.22	6.42	6.64	6.34	6.48	6.70	6.92	6.56	6.71	6.93	7.17
		AMPS	19.8	20.3	21.0	21.8	21.5	22.0	22.8	23.7	23.4	24.0	24.8	25.8	25.1	25.7	26.6	27.6	26.7	27.4	28.4	29.5	28.4	29.1	30.1	31.3
		HI PR	178	191	202	211	200	215	227	236	227	244	258	269	258	278	294	306	291	313	330	345	321	346	365	381
		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
	1965	MBh	54.5	55.7	59.5	63.6	53.2	54.4	58.1	62.1	51.9	53.1	56.7	60.6	50.7	51.8	55.3	59.1	48.1	49.2	52.6	56.2	44.6	45.6	48.7	52.0
		S/T	0.91	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	0.98	0.79	0.59	1.00	0.98	0.80	0.60
		Delta T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	23	22	20	16	21	21	18	15
		KW	5.01	5.12	5.28	5.45	5.40	5.51	5.69	5.88	5.74	5.86	6.05	6.25	6.04	6.17	6.37	6.58	6.29	6.43	6.64	6.87	6.51	6.65	6.88	7.11
		AMPS	19.6	20.1	20.8	21.6	21.3	21.8	22.6	23.4	23.2	23.8	24.6	25.6	24.8	25.5	26.4	27.4	26.5	27.2	28.1	29.2	28.1	28.8	29.8	31.0
		HI PR	176	189	200	209	198	213	224	234	225	242	255	266	256	275	291	303	288	310	327	341	318	342	361	377
		LO PR	63	67	74	78	67	71	78	83	70	74	81	86	73	78	85	90	77	82	89	95	79	84	92	98
	1750	MBh	51.8	52.9	56.5	60.4	50.6	51.7	55.2	59.0	49.4	50.4	53.9	57.6	48.1	49.2	52.6	56.2	45.7	46.7	49.9	53.4	42.4	43.3	46.3	49.4
		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	0.94	0.76	0.57	1.01	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	4.94	5.04	5.20	5.36	5.31	5.43	5.60	5.78	5.64	5.77	5.95	6.15	5.94	6.07	6.26	6.47	6.19	6.32	6.53	6.75	6.40	6.54	6.76	6.99
		AMPS	19.3	19.7	20.4	21.2	20.9	21.4	22.1	23.0	22.8	23.3	24.1	25.1	24.4	25.0	25.8	26.9	26.0	26.6	27.6	28.6	27.6	28.3	29.3	30.4
		HI PR	173	186	196	204	194	208	220	229	220	237	250	261	251	270	285	297	282	304	321	334	312	335	354	369
		LO PR	62	66	72	77	66	70	76	81	68	73	79	84	72	76	83	89	75	80	87	93	78	83	90	96

85	2250	MBh	57.1	58.2	61.0	65.0	55.8	56.8	59.5	63.5	54.4	55.5	58.1	62.0	53.1	54.1	56.7	60.5	50.5	51.4	53.9	57.5	46.7	47.6	49.9	53.2
		S/T	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	1.00	0.81	1.00	1.00	1.00	0.82
		Delta T	23	23	22	19	23	23	22	19	22	23	22	19	22	22	22	19	21	21	22	19	19	19	20	18
		KW	5.09	5.20	5.37	5.54	5.49	5.60	5.78	5.97	5.83	5.96	6.15	6.36	6.14	6.27	6.48	6.69	6.40	6.54	6.75	6.98	6.62	6.77	6.99	7.23
		AMPS	20.0	20.5	21.2	22.0	21.7	22.2	23.0	23.9	23.6	24.2	25.1	26.0	25.3	26.0	26.9	27.9	27.0	27.7	28.6	29.8	28.7	29.4	30.4	31.6
		HI PR	180	193	204	213	202	217	229	239	229	247	260	272	261	281	297	309	294	316	334	348	324	349	369	385
		LO PR	65	69	75	80	68	73	79	84	71	76	82	88	75	79	87	92	78	83	91	97	81	86	94	100
	1965	MBh	55.4	56.5	59.2	63.1	54.1	55.2	57.8	61.7	52.9	53.9	56.4	60.2	51.6	52.6	55.1	58.7	49.0	49.9	52.3	55.8	45.4	46.3	48.4	51.7
		S/T	0.96	0.92	0.83	0.68	0.99	0.96	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
		Delta T	25	24	23	20	25	25	23	20	25	25	23	20	24	25	24	20	23	23	23	20	21	22	22	19
		KW	5.05	5.16	5.32	5.49	5.44	5.56	5.74	5.92	5.78	5.91	6.10	6.30	6.09	6.22	6.42	6.64	6.34	6.48	6.70	6.92	6.56	6.71	6.93	7.17
		AMPS	19.8	20.3	21.0	21.8	21.5	22.0	22.8	23.7	23.4	24.0	24.8	25.8	25.1	25.7	26.6	27.6	26.7	27.4	28.4	29.5	28.4	29.1	30.1	31.3
		HI PR	178	191	202	211	200	215	227	236	227	244	258	269	258	278	294	306	291	313	330	345	321	346	365	381
		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
	1750	MBh	52.7	53.7	56.2	60.0	51.4	52.4	54.9	58.6	50.2	51.2	53.6	57.2	49.0	49.9	52.3	55.8	46.5	47.4	49.7	53.0	43.1	43.9	46.0	49.1
		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	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.74
		Delta T	25	25	24	20	26	25	24	21	26	25	24	21	26	25	24	21	24	25	24	21	23	23	22	19
		KW	4.97	5.08	5.24	5.41	5.35	5.47	5.64	5.83	5.69	5.81	6.00	6.20	5.99	6.12	6.32	6.53	6.24	6.37	6.59	6.81	6.45	6.60	6.82	7.05
		AMPS	19.4	19.9	20.6	21.4	21.1	21.6	22.3	23.2	23.0	23.5	24.4	25.3	24.6	25.2	26.1	27.1	26.2	26.9	27.8	28.9	27.8	28.6	29.5	30.7
		HI PR	174	188	198	207	196	210	222	232	222	239	253	264	253	273	288	300	285	307	324	338	315	339	358	373
		LO PR	63	67	73	78	66	71	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

VHA60C2A

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA60C2C /AR61-1

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
70	2250	MBh	53.9	55.9	61.2	-	52.6	54.6	59.8	-	51.4	53.3	58.4	-	50.1	52.0	56.9	-	47.6	49.4	54.1	-	44.1	45.7	50.1	-
		S/T	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.88	0.74	0.51	-	0.89	0.74	0.51	-
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-
		KW	4.98	5.08	5.24	-	5.36	5.47	5.64	-	5.69	5.81	6.00	-	5.99	6.12	6.32	-	6.24	6.37	6.58	-	6.45	6.60	6.81	-
		AMPS	19.4	19.9	20.6	-	21.1	21.6	22.3	-	23.0	23.5	24.4	-	24.6	25.2	26.1	-	26.2	26.9	27.8	-	27.8	28.6	29.5	-
		HI PR	174	187	197	-	195	210	222	-	222	239	252	-	253	272	287	-	284	306	323	-	314	338	357	-
		LO PR	59	63	69	-	62	66	73	-	65	69	75	-	68	73	79	-	71	76	83	-	74	79	86	-
	1900	MBh	52.3	54.2	59.4	-	51.1	53.0	58.0	-	49.9	51.7	56.7	-	48.7	50.5	55.3	-	46.2	47.9	52.5	-	42.8	44.4	48.6	-
		S/T	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	13	-	19	16	12	-	18	15	12	-
		KW	4.94	5.04	5.20	-	5.31	5.43	5.60	-	5.64	5.77	5.95	-	5.94	6.07	6.26	-	6.18	6.32	6.53	-	6.40	6.54	6.76	-
		AMPS	19.3	19.7	20.4	-	20.9	21.4	22.1	-	22.8	23.3	24.1	-	24.4	25.0	25.8	-	26.0	26.6	27.6	-	27.6	28.3	29.3	-
		HI PR	172	185	196	-	193	208	219	-	220	236	250	-	250	269	284	-	281	303	320	-	311	335	353	-
		LO PR	59	62	68	-	62	66	72	-	64	68	75	-	68	72	78	-	71	75	82	-	73	78	85	-
	1750	MBh	51.5	53.4	58.5	-	50.3	52.2	57.2	-	49.1	50.9	55.8	-	47.9	49.7	54.4	-	45.5	47.2	51.7	-	42.2	43.7	47.9	-
		S/T	0.71	0.59	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	-
		Delta T	19	17	13	-	19	17	13	-	20	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-
		KW	4.87	4.97	5.13	-	5.24	5.35	5.52	-	5.57	5.69	5.87	-	5.85	5.98	6.18	-	6.10	6.23	6.44	-	6.31	6.45	6.66	-
		AMPS	19.0	19.4	20.1	-	20.5	21.1	21.8	-	22.4	23.0	23.7	-	24.0	24.6	25.4	-	25.6	26.2	27.1	-	27.1	27.8	28.8	-
		HI PR	169	182	192	-	190	204	216	-	216	232	245	-	246	265	279	-	277	298	314	-	306	329	347	-
		LO PR	58	61	67	-	61	65	71	-	63	67	73	-	66	71	77	-	70	74	81	-	72	77	84	-

75	2250	MBh	54.8	56.4	61.1	65.6	53.5	55.1	59.7	64.0	52.3	53.8	58.2	62.5	51.0	52.5	56.8	61.0	48.4	49.9	54.0	57.9	44.9	46.2	50.0	53.7
		S/T	0.88	0.79	0.60	0.38	0.91	0.81	0.62	0.40	0.93	0.84	0.63	0.41	0.96	0.86	0.65	0.42	1.00	0.90	0.68	0.44	1.00	0.90	0.68	0.44
		Delta T	20	18	15	10	20	18	15	10	20	18	15	10	20	19	15	10	20	18	15	10	18	17	14	10
		KW	5.02	5.12	5.28	5.45	5.40	5.52	5.69	5.88	5.74	5.86	6.05	6.25	6.04	6.17	6.37	6.58	6.29	6.43	6.64	6.86	6.51	6.65	6.87	7.11
		AMPS	19.6	20.1	20.8	21.6	21.3	21.8	22.6	23.4	23.2	23.8	24.6	25.5	24.8	25.5	26.3	27.4	26.5	27.2	28.1	29.2	28.1	28.8	29.8	31.0
		HI PR	176	189	200	208	197	212	224	233	224	241	255	266	255	275	290	302	287	309	326	340	317	341	360	376
		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
	1900	MBh	53.2	54.8	59.3	63.6	52.0	53.5	57.9	62.2	50.7	52.2	56.5	60.7	49.5	51.0	55.2	59.2	47.0	48.4	52.4	56.2	43.6	44.8	48.5	52.1
		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	0.95	0.85	0.65	0.42	0.96	0.86	0.65	0.42
		Delta T	22	20	16	11	22	20	16	11	22	20	17	11	22	20	17	11	22	20	16	11	20	19	15	11
		KW	4.98	5.08	5.24	5.41	5.36	5.47	5.65	5.83	5.69	5.81	6.00	6.20	5.99	6.12	6.32	6.53	6.24	6.38	6.58	6.81	6.45	6.60	6.82	7.05
		AMPS	19.4	19.9	20.6	21.4	21.1	21.6	22.3	23.2	23.0	23.6	24.4	25.3	24.6	25.2	26.1	27.1	26.2	26.9	27.8	28.9	27.9	28.6	29.6	30.7
		HI PR	174	187	198	206	195	210	222	231	222	239	252	263	253	272	287	299	284	306	323	337	314	338	357	372
		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
	1750	MBh	52.4	54.0	58.4	62.7	51.2	52.7	57.1	61.2	50.0	51.5	55.7	59.8	48.8	50.2	54.3	58.3	46.3	47.7	51.6	55.4	42.9	44.2	47.8	51.3
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40
		Delta T	22	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	22	21	17	12	21	19	16	11
		KW	4.91	5.01	5.17	5.33	5.28	5.40	5.57	5.75	5.61	5.73	5.92	6.11	5.90	6.03	6.23	6.43	6.15	6.28	6.49	6.71	6.36	6.50	6.72	6.94
		AMPS	19.1	19.6	20.3	21.1	20.7	21.3	22.0	22.8	22.6	23.2	24.0	24.9	24.2	24.8	25.7	26.7	25.8	26.5	27.4	28.5	27.4	28.1	29.1	30.2
		HI PR	171	184	194	203	192	206	218	227	218	235	248	258	248	267	282	294	279	301	317	331	309	332	351	366
		LO PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

VHA60C2C

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: VHA60C2C /AR61-1

			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
IDB*	Airflow																									
80	2250	MBh	55.8	57.0	60.9	65.1	54.5	55.7	59.5	63.6	53.2	54.4	58.1	62.1	51.9	53.0	56.7	60.6	49.3	50.4	53.8	57.5	45.7	46.7	49.9	53.3
		S/T	0.96	0.90	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.96	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.84	0.63	1.00	1.00	0.84	0.63
		Delta T	22	21	18	15	22	21	19	15	22	21	19	15	21	22	19	15	20	21	18	15	19	19	17	14
		KW	5.06	5.16	5.33	5.50	5.44	5.56	5.74	5.92	5.78	5.91	6.10	6.30	6.09	6.22	6.42	6.64	6.34	6.48	6.70	6.92	6.56	6.71	6.93	7.17
		AMPS	19.8	20.3	21.0	21.8	21.5	22.0	22.8	23.7	23.4	24.0	24.8	25.8	25.1	25.7	26.6	27.6	26.7	27.4	28.4	29.5	28.4	29.1	30.1	31.3
		HI PR	177	191	202	210	199	214	226	236	226	244	257	268	258	277	293	305	290	312	330	344	320	345	364	380
		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
	1900	MBh	54.2	55.3	59.1	63.2	52.9	54.1	57.8	61.7	51.6	52.8	56.4	60.3	50.4	51.5	55.0	58.8	47.9	48.9	52.3	55.9	44.3	45.3	48.4	51.7
		S/T	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	0.98	0.80	0.60	1.00	0.99	0.81	0.60
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	24	20	16	23	23	20	16	21	22	19	15
		KW	5.02	5.12	5.28	5.45	5.40	5.52	5.69	5.88	5.74	5.86	6.05	6.25	6.04	6.17	6.37	6.58	6.29	6.43	6.64	6.86	6.51	6.65	6.87	7.11
		AMPS	19.6	20.1	20.8	21.6	21.3	21.8	22.6	23.4	23.2	23.8	24.6	25.6	24.8	25.5	26.4	27.4	26.5	27.2	28.1	29.2	28.1	28.8	29.8	31.0
		HI PR	176	189	200	208	197	212	224	234	224	241	255	266	255	275	290	302	287	309	326	340	317	341	360	376
		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
	1750	MBh	53.3	54.5	58.2	62.3	52.1	53.2	56.9	60.8	50.9	52.0	55.5	59.4	49.6	50.7	54.2	57.9	47.1	48.2	51.5	55.0	43.7	44.6	47.7	51.0
		S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.56	1.01	0.95	0.77	0.58	1.00	0.95	0.78	0.58
		Delta T	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	22	19	16
		KW	4.95	5.05	5.21	5.38	5.33	5.44	5.61	5.79	5.66	5.78	5.97	6.16	5.95	6.08	6.28	6.49	6.20	6.34	6.55	6.76	6.42	6.56	6.77	7.00
		AMPS	19.3	19.8	20.5	21.3	20.9	21.5	22.2	23.1	22.8	23.4	24.2	25.1	24.4	25.1	25.9	26.9	26.1	26.7	27.6	28.7	27.7	28.4	29.4	30.5
		HI PR	173	186	196	205	194	208	220	230	220	237	250	261	251	270	285	297	282	304	321	334	312	336	354	370
		LO PR	59	62	68	73	62	66	72	77	64	69	75	80	68	72	79	84	71	75	82	88	73	78	85	91

85	2250	MBh	56.8	57.9	60.6	64.6	55.4	56.5	59.2	63.1	54.1	55.2	57.8	61.6	52.8	53.8	56.4	60.1	50.2	51.1	53.5	57.1	46.5	47.4	49.6	52.9
		S/T	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.78	1.00	1.00	1.00	0.81	1.00	1.00	1.00	0.82
		Delta T	23	23	22	19	23	23	22	19	22	23	22	19	22	22	22	19	20	21	22	19	19	19	20	18
		KW	5.10	5.20	5.37	5.54	5.49	5.61	5.78	5.97	5.83	5.96	6.15	6.36	6.14	6.27	6.48	6.69	6.39	6.54	6.75	6.98	6.62	6.77	6.99	7.23
		AMPS	20.0	20.5	21.2	22.0	21.7	22.2	23.0	23.9	23.6	24.2	25.1	26.0	25.3	26.0	26.9	27.9	27.0	27.7	28.6	29.8	28.7	29.4	30.4	31.6
		HI PR	179	193	204	212	201	216	228	238	229	246	260	271	260	280	296	309	293	315	333	347	324	348	368	384
		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
	1900	MBh	55.1	56.2	58.8	62.8	53.8	54.9	57.5	61.3	52.5	53.6	56.1	59.8	51.3	52.3	54.7	58.4	48.7	49.6	52.0	55.5	45.1	46.0	48.2	51.4
		S/T	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.71	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.96	0.78
		Delta T	26	25	24	21	26	26	24	21	25	26	24	21	25	25	24	21	24	24	24	21	22	22	22	19
		KW	5.06	5.16	5.33	5.50	5.44	5.56	5.74	5.92	5.78	5.91	6.10	6.30	6.09	6.22	6.42	6.64	6.34	6.48	6.70	6.92	6.56	6.71	6.93	7.17
		AMPS	19.8	20.3	21.0	21.8	21.5	22.0	22.8	23.7	23.4	24.0	24.8	25.8	25.1	25.7	26.6	27.6	26.7	27.4	28.4	29.5	28.4	29.1	30.1	31.3
		HI PR	177	191	202	210	199	214	226	236	226	244	257	268	258	277	293	305	290	312	330	344	320	345	364	380
		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
	1750	MBh	54.3	55.3	57.9	61.8	53.0	54.0	56.6	60.4	51.8	52.8	55.3	58.9	50.5	51.5	53.9	57.5	48.0	48.9	51.2	54.6	44.4	45.3	47.4	50.6
		S/T	0.93	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75
		Delta T	27	26	25	21	27	26	25	22	27	26	25	22	27	27	25	22	25	26	25	21	23	24	23	20
		KW	4.99	5.09	5.25	5.42	5.37	5.48	5.66	5.84	5.70	5.83	6.02	6.21	6.00	6.13	6.33	6.54	6.25	6.39	6.60	6.82	6.47	6.61	6.83	7.06
		AMPS	19.5	20.0	20.7	21.5	21.1	21.7	22.4	23.3	23.0	23.6	24.4	25.4	24.7	25.3	26.2	27.2	26.3	27.0	27.9	29.0	27.9	28.6	29.6	30.8
		HI PR	174	188	198	207	196	210	222	232	222	239	253	264	253	273	288	300	285	307	324	338	315	339	358	373
		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

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

VHA60C2C

HEAT PERFORMANCE DATA

VHA[18-36]C2A

EXPANDED PERFORMANCE DATA

MODEL: VHA18C2A / CCA24FCC / BBA24A2A

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	21.9	20.7	19.5	18.2	17.4	16.9	15.7	14.4	12.1	11.1	10.3	9.7	9.3	8.4	7.4	6.5	5.5	4.5
□T	34	32	30	28	27	26	24	22	19	17	16	15	14	13	11	10	9	7
KW	1.82	1.79	1.75	1.7	1.70	1.68	1.65	1.6	2.09	2.04	1.99	2.0	1.94	1.89	1.84	1.8	1.74	1.69
AMPS	8.3	7.7	7.3	6.8	6.6	6.5	6.1	5.8	5.6	5.4	5.1	5.0	4.9	4.7	4.4	4.2	3.9	3.5
COPS	3.5	3.4	3.3	3.1	3.0	2.9	2.8	2.6	1.7	1.6	1.5	1.4	1.4	1.3	1.2	1.1	0.9	0.8
EER	12.0	11.6	11.1	10.6	10.3	10.0	9.5	9.0	5.8	5.5	5.2	4.9	4.8	4.4	4.0	3.6	3.2	2.7
HI PR	236	226	217	207.8	203	199	191	183.6	176	168	161	157.5	155	149	143	137.2	132	128
LO PR	76	71	66	60.6	57	55	51	45.2	41	36	32	29.7	29	24	21	17.6	15	12

MODEL: VHA24C2A / CCA24FCC/ BBA24A2A

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	27.9	26.4	24.8	23.2	22.2	21.5	19.9	18.4	15.1	13.9	12.8	12.1	11.7	10.5	9.3	8.1	6.9	5.7
□T	32	31	29	27	26	25	23	21	17	16	15	14	13	12	11	9	8	7
KW	2.28	2.24	2.19	2.1	2.12	2.10	2.06	2.0	1.86	1.82	1.78	1.8	1.74	1.70	1.66	1.6	1.58	1.54
AMPS	10.4	9.6	9.0	8.5	8.2	8.1	7.6	7.2	6.9	6.6	6.3	6.2	6.1	5.8	5.4	5.1	4.7	4.3
COPS	3.6	3.5	3.3	3.2	3.1	3.0	2.8	2.7	2.4	2.2	2.1	2.0	2.0	1.8	1.6	1.5	1.3	1.1
EER	12.2	11.8	11.3	10.8	10.4	10.2	9.7	9.1	8.1	7.6	7.2	6.9	6.7	6.2	5.6	5.0	4.4	3.7
HI PR	251	241	232	221.6	216	212	204	195.8	188	179	172	167.9	165	159	153	146.3	141	136
LO PR	75	69	65	59.7	56	54	50	44.4	40	36	31	29.3	28	24	21	17.4	15	12

MODEL: VHA30C2A / CCA36FCC / BBA36A2A

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	36.1	34.1	32.1	30.0	28.7	27.8	25.8	23.8	18.7	17.3	15.9	15.0	14.5	13.0	11.5	10.1	8.6	7.0
□T	33	32	30	28	27	26	24	22	17	16	15	14	13	12	11	9	8	7
KW	2.75	2.70	2.65	2.6	2.56	2.54	2.49	2.4	2.22	2.17	2.12	2.1	2.07	2.03	1.98	1.9	1.88	1.83
AMPS	11.2	10.4	9.7	9.1	8.8	8.6	8.2	7.7	7.4	7.1	6.8	6.6	6.5	6.2	5.8	5.4	5.0	4.5
COPS	3.8	3.7	3.6	3.4	3.3	3.2	3.0	2.9	2.5	2.3	2.2	2.1	2.0	1.9	1.7	1.5	1.3	1.1
EER	13.1	12.6	12.1	11.6	11.2	10.9	10.4	9.8	8.5	8.0	7.5	7.2	7.0	6.4	5.8	5.2	4.6	3.8
HI PR	250	240	231	220.6	215	211	203	194.9	187	178	171	167.2	164	158	152	145.6	140	135
LO PR	75	69	65	59.7	56	54	50	44.4	40	36	31	29.3	28	24	21	17.4	15	12

MODEL: VHA36C2A / CCA42FCC/ BBA36A2A

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	44.2	41.9	39.4	36.9	35.2	34.1	31.7	29.2	25.4	23.4	21.6	20.4	19.6	17.6	15.6	13.6	11.6	9.5
□T	34	32	30	28	27	26	24	22	19	18	16	15	15	13	12	10	9	7
KW	3.65	3.57	3.49	3.4	3.37	3.33	3.26	3.2	2.08	2.03	1.98	2.0	1.93	1.88	1.83	1.8	1.74	1.69
AMPS	16.3	15.1	14.1	13.3	12.8	12.6	11.9	11.3	10.8	10.3	9.8	9.6	9.5	9.0	8.4	7.9	7.4	6.6
COPS	3.6	3.4	3.3	3.2	3.1	3.0	2.8	2.7	3.6	3.4	3.2	3.1	3.0	2.7	2.5	2.2	2.0	1.6
EER	12.1	11.7	11.3	10.8	10.5	10.2	9.7	9.2	12.2	11.6	10.9	10.4	10.2	9.4	8.5	7.6	6.7	5.6
HI PR	268	257	247	236.1	231	226	217	208.7	200	191	183	178.9	176	169	163	155.9	150	145
LO PR	72	66	62	57.0	54	52	48	42.5	38	34	30	28.0	27	23	20	16.6	14	11

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.

HEAT PERFORMANCE DATA

VHA[42-60]C2A

EXPANDED PERFORMANCE DATA

MODEL: VHA42C2A / CCA48FCC/ BBA48A2A

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	28.8	26.6	24.5	23.1	22.3	20.0	17.7	15.5	13.2	10.8
□T	36	34	32	30	28	27	25	24	21	19	18	17	16	15	13	11	10	8
KW	3.95	3.87	3.80	3.7	3.68	3.65	3.58	3.5	3.42	3.35	3.28	3.2	3.20	3.13	3.06	3.0	2.91	2.84
AMPS	19.5	18.0	16.9	15.9	15.3	15.0	14.1	13.4	12.8	12.3	11.7	11.4	11.3	10.7	10.0	9.4	8.7	7.8
COPS	3.6	3.5	3.4	3.2	3.1	3.0	2.9	2.7	2.5	2.3	2.2	2.1	2.0	1.9	1.7	1.5	1.3	1.1
EER	12.4	12.0	11.5	11.0	10.6	10.4	9.8	9.2	8.4	7.9	7.5	7.2	7.0	6.4	5.8	5.2	4.5	3.8
HI PR	256	245	236	225.3	220	216	207	199.1	191	182	175	170.7	168	161	155	148.7	143	138
LO PR	72	66	62	57.1	54	52	48	42.6	38	34	30	28.0	27	23	20	16.6	15	11

MODEL: VHA48C2A / CCA57FCC/ BBA60A2A

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	57.4	54.3	51.1	47.8	45.6	44.2	41.1	37.9	33.8	31.2	28.7	27.1	26.1	23.4	20.8	18.1	15.5	12.7
□T	33	31	30	28	26	26	24	22	20	18	17	16	15	14	12	10	9	7
KW	4.43	4.34	4.26	4.2	4.12	4.09	4.01	3.9	37.30	36.25	35.24	34.6	34.22	33.18	32.16	31.2	30.10	29.09
AMPS	22.3	20.7	19.3	18.2	17.5	17.2	16.2	15.3	14.7	14.0	13.3	13.0	12.8	12.2	11.3	10.6	9.8	8.8
COPS	3.8	3.7	3.5	3.4	3.2	3.2	3.0	2.8	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
EER	13.0	12.5	12.0	11.4	11.1	10.8	10.3	9.7	0.9	0.9	0.8	0.8	0.8	0.7	0.6	0.6	0.5	0.4
HI PR	247	237	227	217.5	212	208	200	192.2	184	176	169	164.8	162	156	150	143.6	138	134
LO PR	75	70	65	59.9	57	54	50	44.6	40	36	32	29.4	28	24	21	17.4	15	12

MODEL: VHA60C2A / CCA60FCC/ BBA60A2A

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	69.1	65.4	61.6	57.5	55.0	53.3	49.5	45.6	45.7	42.2	38.9	36.7	35.3	31.7	28.1	24.5	20.9	17.1
□T	33	31	29	27	26	25	23	21	22	20	18	17	17	15	13	12	10	8
KW	5.30	5.20	5.10	5.0	4.94	4.90	4.80	4.7	2.42	2.38	2.34	2.3	2.30	2.27	2.23	2.2	2.15	2.11
AMPS	27.3	25.3	23.6	22.2	21.3	20.9	19.7	18.6	17.8	17.0	16.2	15.8	15.5	14.7	13.7	12.8	11.8	10.6
COPS	3.8	3.7	3.5	3.4	3.3	3.2	3.0	2.8	5.5	5.2	4.9	4.6	4.5	4.1	3.7	3.3	2.8	2.4
EER	13.0	12.6	12.1	11.5	11.1	10.9	10.3	9.7	18.9	17.7	16.6	15.8	15.3	14.0	12.6	11.2	9.7	8.1
HI PR	227	217	209	199.7	195	191	184	176.5	169	161	155	151.3	149	143	137	131.8	127	123
LO PR	66	62	58	53.0	50	48	44	39.5	36	32	28	26.0	25	21	18	15.4	13	11

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.

HEAT PERFORMANCE DATA

VHA[18-36]C2[B/C]

EXPANDED PERFORMANCE DATA

MODEL: VHA18C2[B/C] /CA*F025*2*/ MBR800

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	22.3	21.1	19.9	18.6	17.8	17.2	16.0	14.7	1.2	1.2	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.5
□T	34	33	31	29	27	27	25	23	2	2	2	2	1	1	1	1	1	1
KW	1.88	1.84	1.81	1.8	1.75	1.74	1.70	1.7	1.61	1.57	1.54	1.5	1.50	1.47	1.43	1.4	1.36	1.33
AMPS	9.2	8.6	8.0	7.6	7.3	7.2	6.8	6.4	6.2	5.9	5.6	5.5	5.5	5.2	4.9	4.6	4.3	3.9
COPS	3.5	3.4	3.2	3.1	3.0	2.9	2.8	2.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
EER	11.9	11.5	11.0	10.5	10.1	9.9	9.4	8.9	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4
HI PR	249	238	229	219.1	214	210	202	193.7	186	177	170	166.1	163	157	151	144.7	140	135
LO PR	75	69	65	59.7	56	54	50	44.4	40	36	31	29.3	28	24	21	17.4	15	12

MODEL: VHA24C2[B/C] /CA*F025*2*/ MBR800

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	27.4	25.9	24.4	22.8	21.8	21.1	19.6	18.1	16.2	15.0	13.8	13.0	12.5	11.3	10.0	8.7	7.4	6.1
□T	32	30	28	26	25	24	23	21	19	17	16	15	15	13	12	10	9	7
KW	2.30	2.25	2.21	2.2	2.14	2.12	2.08	2.0	1.94	1.90	1.86	1.8	1.82	1.77	1.73	1.7	1.65	1.60
AMPS	10.8	10.0	9.4	8.8	8.5	8.3	7.9	7.5	7.2	6.8	6.5	6.4	6.3	6.0	5.6	5.2	4.9	4.4
COPS	3.5	3.4	3.2	3.1	3.0	2.9	2.8	2.6	2.4	2.3	2.2	2.1	2.0	1.9	1.7	1.5	1.3	1.1
EER	11.9	11.5	11.0	10.5	10.2	9.9	9.4	8.9	8.3	7.9	7.4	7.1	6.9	6.3	5.8	5.2	4.5	3.8
HI PR	245	235	226	216.1	211	207	199	191.0	183	175	168	163.7	161	155	149	142.6	138	133
LO PR	72	67	63	57.8	55	53	48	43.0	39	35	30	28.3	27	23	20	16.8	15	12

MODEL: VHA30C2[B/C] /CA*F037*2*/ MBR1200

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	34.4	32.5	30.6	28.6	27.4	26.5	24.6	22.7	20.6	19.0	17.5	16.5	15.9	14.3	12.7	11.0	9.4	7.7
□T	30	29	27	25	24	23	22	20	18	17	15	15	14	13	11	10	8	7
KW	2.81	2.76	2.70	2.6	2.62	2.60	2.54	2.5	2.39	2.34	2.28	2.3	2.23	2.18	2.13	2.1	2.02	1.97
AMPS	13.5	12.5	11.7	11.0	10.6	10.4	9.8	9.3	8.9	8.5	8.1	7.9	7.8	7.4	6.9	6.5	6.0	5.3
COPS	3.6	3.5	3.3	3.2	3.1	3.0	2.8	2.7	2.5	2.4	2.2	2.1	2.1	1.9	1.7	1.6	1.4	1.1
EER	12.2	11.8	11.3	10.8	10.4	10.2	9.7	9.1	8.6	8.1	7.7	7.3	7.1	6.6	6.0	5.3	4.7	3.9
HI PR	238	228	220	209.9	205	201	193	185.5	178	170	163	159.1	156	150	145	138.6	134	129
LO PR	70	65	61	56.1	53	51	47	41.8	38	34	30	27.5	27	22	19	16.3	14	11

MODEL: VHA36C2[B/C] /CA*F042*2*/ MBR1200

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	44.3	41.9	39.5	36.9	35.3	34.2	31.7	29.3	25.4	23.5	21.6	20.4	19.7	17.6	15.6	13.6	11.6	9.5
□T	34	32	30	28	27	26	24	23	20	18	17	16	15	14	12	11	9	7
KW	3.68	3.61	3.54	3.5	3.42	3.39	3.32	3.3	2.92	2.86	2.79	2.8	2.73	2.67	2.60	2.5	2.48	2.41
AMPS	17.0	15.8	14.7	13.8	13.3	13.0	12.3	11.6	11.1	10.6	10.1	9.8	9.7	9.2	8.5	8.0	7.4	6.6
COPS	3.5	3.4	3.3	3.1	3.0	2.9	2.8	2.6	2.5	2.4	2.3	2.2	2.1	1.9	1.8	1.6	1.4	1.2
EER	12.0	11.6	11.2	10.7	10.3	10.1	9.5	9.0	8.7	8.2	7.7	7.4	7.2	6.6	6.0	5.4	4.7	4.0
HI PR	278	266	256	244.7	239	234	225	216.3	207	198	190	185.5	182	175	168	161.6	156	150
LO PR	74	69	64	59.0	56	54	49	44.0	40	35	31	29.0	28	24	20	17.2	15	12

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.

HEAT PERFORMANCE DATA

VHA**C2[B/C]

EXPANDED PERFORMANCE DATA

MODEL: VHA42C2[B/C] /CA*F049*2*/ MBR1600

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	52.8	50.0	47.0	44.0	42.0	40.7	37.8	34.9	33.2	30.6	28.2	26.6	25.6	23.0	20.4	17.8	15.2	12.4
ηT	36	34	32	30	29	28	26	24	23	21	19	18	18	16	14	12	10	9
KW	4.21	4.12	4.04	4.0	3.91	3.87	3.79	3.7	3.55	3.47	3.39	3.3	3.31	3.23	3.15	3.1	2.99	2.91
AMPS	20.6	19.0	17.8	16.7	16.0	15.7	14.8	14.0	13.4	12.8	12.1	11.8	11.6	11.0	10.2	9.6	8.8	7.9
COPS	3.7	3.5	3.4	3.3	3.1	3.1	2.9	2.7	2.7	2.6	2.4	2.3	2.3	2.1	1.9	1.7	1.5	1.2
EER	12.5	12.1	11.6	11.1	10.7	10.5	10.0	9.4	9.3	8.8	8.3	8.0	7.7	7.1	6.5	5.8	5.1	4.3
HI PR	276	264	254	243.0	237	233	224	214.8	206	196	189	184.1	181	174	167	160.4	155	149
LO PR	71	66	62	56.7	54	52	47	42.2	38	34	30	27.8	27	23	20	16.5	14	11

MODEL: VHA48C2[B/C] /CA*F060*2*/ MBR1600

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	53.6	50.8	47.8	44.7	42.7	41.3	38.4	35.4	34.4	31.7	29.2	27.6	26.6	23.8	21.1	18.4	15.7	12.9
ηT	31	29	28	26	25	24	22	20	20	18	17	16	15	14	12	11	9	7
KW	4.18	4.10	4.02	3.9	3.89	3.86	3.78	3.7	3.50	3.42	3.35	3.3	3.27	3.19	3.11	3.0	2.96	2.88
AMPS	19.4	17.9	16.8	15.8	15.2	14.9	14.0	13.3	12.7	12.2	11.6	11.3	11.1	10.6	9.8	9.3	8.5	7.7
COPS	3.8	3.6	3.5	3.3	3.2	3.1	3.0	2.8	2.9	2.7	2.6	2.4	2.4	2.2	2.0	1.8	1.6	1.3
EER	12.8	12.4	11.9	11.3	11.0	10.7	10.2	9.6	9.8	9.3	8.7	8.4	8.1	7.5	6.8	6.1	5.3	4.5
HI PR	220	211	203	193.8	189	186	179	171.3	164	157	150	146.9	144	139	133	128.0	123	119
LO PR	69	64	60	55.0	52	50	46	41.0	37	33	29	27.0	26	22	19	16.0	14	11

MODEL: VHA60C2C /AR61-1

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	68.6	64.9	61.1	57.1	54.5	52.8	49.1	45.3	44.5	41.0	37.8	35.7	34.4	30.8	27.3	23.8	20.3	16.7
ηT	33.4	31.6	29.8	27.8	26.6	25.8	23.9	22.1	21.7	20.0	18.4	17.4	16.7	15.0	13.3	11.6	9.9	8.1
KW	5.1	5.0	4.9	4.8	4.8	4.7	4.6	4.5	4.7	4.6	4.5	4.5	4.4	4.3	4.2	4.2	4.1	4.0
AMPS	22.4	20.7	19.3	18.2	17.5	17.1	16.1	15.3	14.6	14.0	13.3	12.9	12.8	12.1	11.3	10.6	9.7	8.7
COPS	3.9	3.8	3.6	3.5	3.4	3.3	3.1	2.9	2.7	2.6	2.4	2.3	2.3	2.1	1.9	1.7	1.5	1.2
EER	13.5	13.0	12.5	11.9	11.5	11.2	10.6	10.0	9.4	8.9	8.3	8.0	7.7	7.1	6.4	5.7	5.0	4.2
HI PR	217	208	200	192	187	184	176	169	162	155	149	145	143	137	132	126	122	118
LO PR	70.7	65.6	61.5	56.4	53.3	51.3	47.2	42.0	37.9	33.8	29.7	27.7	26.7	22.5	19.5	16.4	14.3	11.2

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 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 (ΔT). Low and high side pressures and power will not change.
2. As indoor CFM decreases, a slight increase will occur in indoor temperature drop (ΔT). A slight decrease will occur in low and high side pressures and power.

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

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

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

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

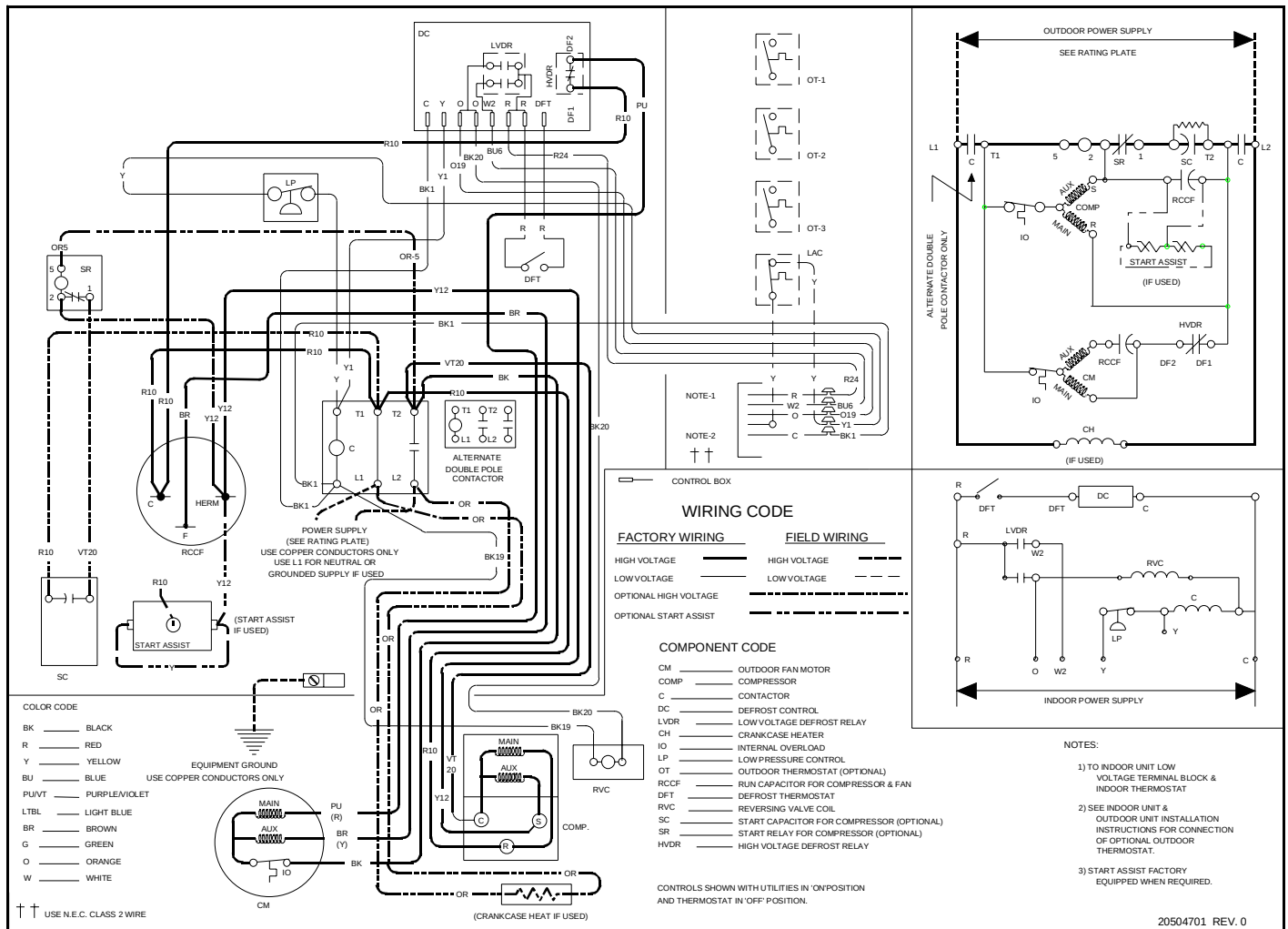
WIRING DIAGRAMS

VHA18-48C2*



WARNING

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.



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

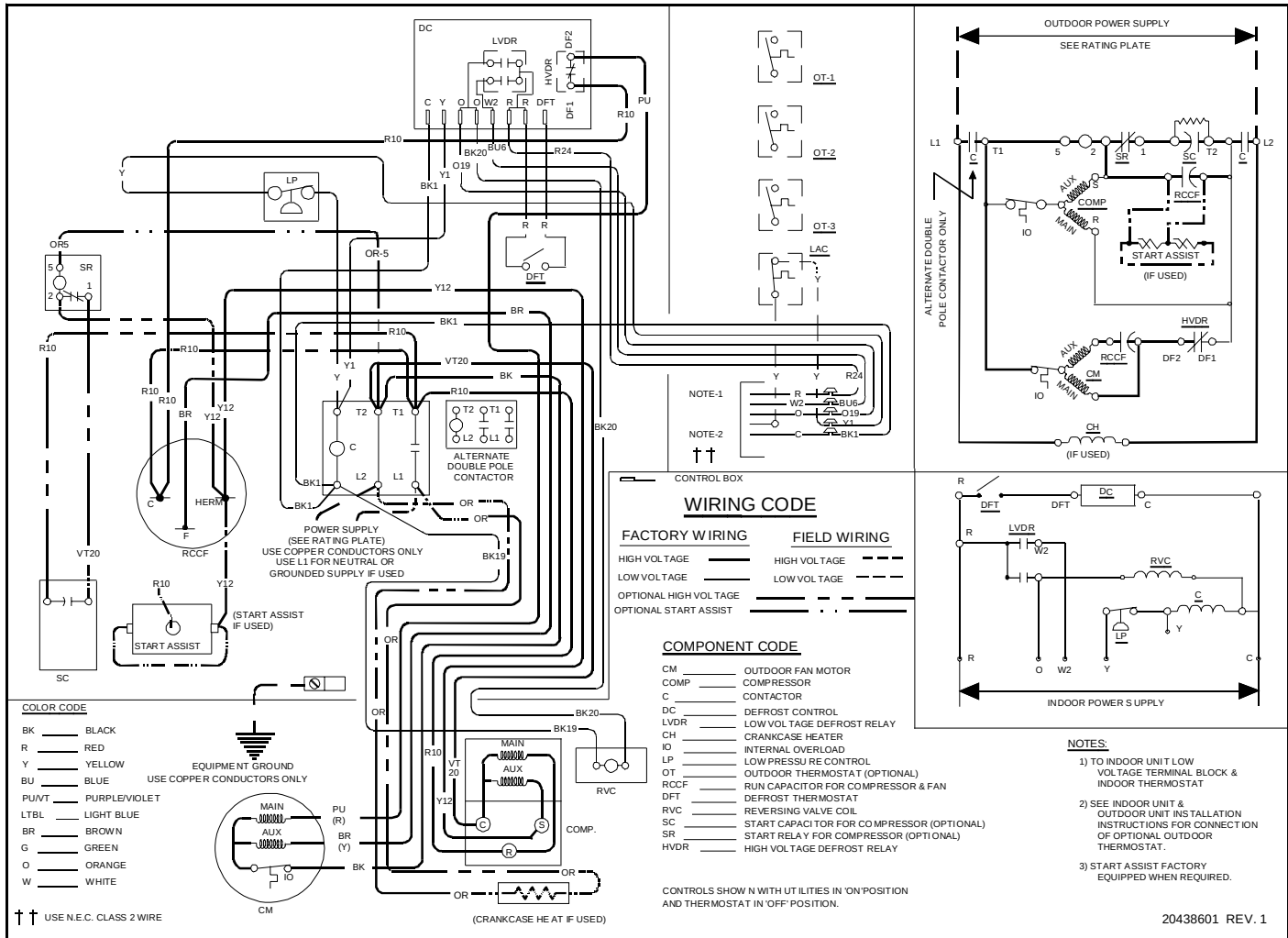
WIRING DIAGRAMS

VHA60C2*



WARNING

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.



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