



[PHD48/PHB60]C02E

Package Heat Pump Heating & Cooling Unit Specification Sheet

Affix this manual, Installation Instructions and Users Information Manual adjacent to the unit.

SPECIFICATIONS			
		PHD48C02E	PHB60C02E
COOLING RATING	COOLING CAPACITY, BTUH	48,000	57,000
	SEER	12.00	11.00
HEATING RATING	47°/43°F	47,000	57,000
	35°/33°F	38,500	47,000
	17°/15°F	26,500	33,000
	HSPF	7.0	6.8
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1
	UNIT AMPS (TOTAL)	28.4	38
	MIN CIRCUIT AMPACITY	33.2	45.3
	MAX OVERCURRENT PROTECTION	50	60
COMPRESSOR	TYPE	Scroll	Scroll
	RATED LOAD AMPS	19.2	28.9
	LOCKED ROTOR AMPS	137.0	148.0
CONDENSER FAN MOTOR	HORSEPOWER	1/3	1/3
	RPM	1100	1100
	FULL LOAD AMPS	2.4	2.4
	LOCKED ROTOR AMPS	5.8	5.8
CONDENSER FAN	BLADE DIAMETER / NUMBER	22" / 4	22" / 4
	CFM	3000	3000
CONDENSER COIL	FACE AREA (SQ.FT.)	12.2	12.2
	NUMBER OF ROWS	2	2
	FINS PER INCH	18	18
EVAPORATOR BLOWER MOTOR	HORSEPOWER - # OF SPEEDS	ECM	ECM
	FULL LOAD AMPS	6.8	6.8
	LOCKED ROTOR AMPS	ECM	ECM
	MOTOR SPEED TAP - COOLING RPM	VARIABLE VARIABLE	VARIABLE VARIABLE
EVAPORATOR BLOWER	DIAMETER X WIDTH	10 X 8	10 X 8
	RATED SCFM COOLING	1550	1750
	MAX EXTERNAL STATIC PRESS	.5"wc	.5"wc
EVAPORATOR COIL	FACE AREA (SQ.FT.)	4.4	4.4
	NUMBER OF ROWS	4	4
	FINS PER INCH	14	14
GENERAL INFORMATION	FILTER SIZE (SQ.FT.)	5.5	6.5
	DRAIN SIZE	3/4 IN	3/4 IN
	EXPANSION DEVICE	TXV / TXV	TXV / TXV
	REFRIGERANT CHARGE R-22 (oz.)	150	150
	POWER SUPPLY ENTRANCE SIZE	1-1/4"	1-1/4"
	LOW VOLTAGE ENTRANCE SIZE	3/4"	3/4"
	SHIPPING WEIGHT LBS.	378	383
	OPERATING WEIGHT LBS.	365	370
ACCESSORIES	ROOFCURB - HEAT PUMP	PRC06A1	PRC06A1
	ROOFCURB - COMBINATION	PRC08A1	PRC08A1
	SXS TO OVER/UNDER KIT	PDTR0U4A	PDTR0U4A
	SINGLE POINT WIRING KIT	SPK08A	SPK09A
	HORIZONTAL DUCT COVER KIT	CHK001A	CHK001A
	AMBIENT THERMOSTAT KIT	ATK01	ATK01

NOTES:

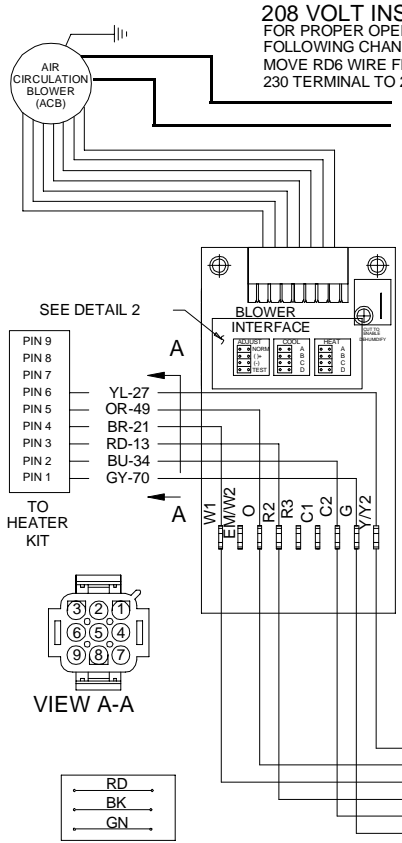
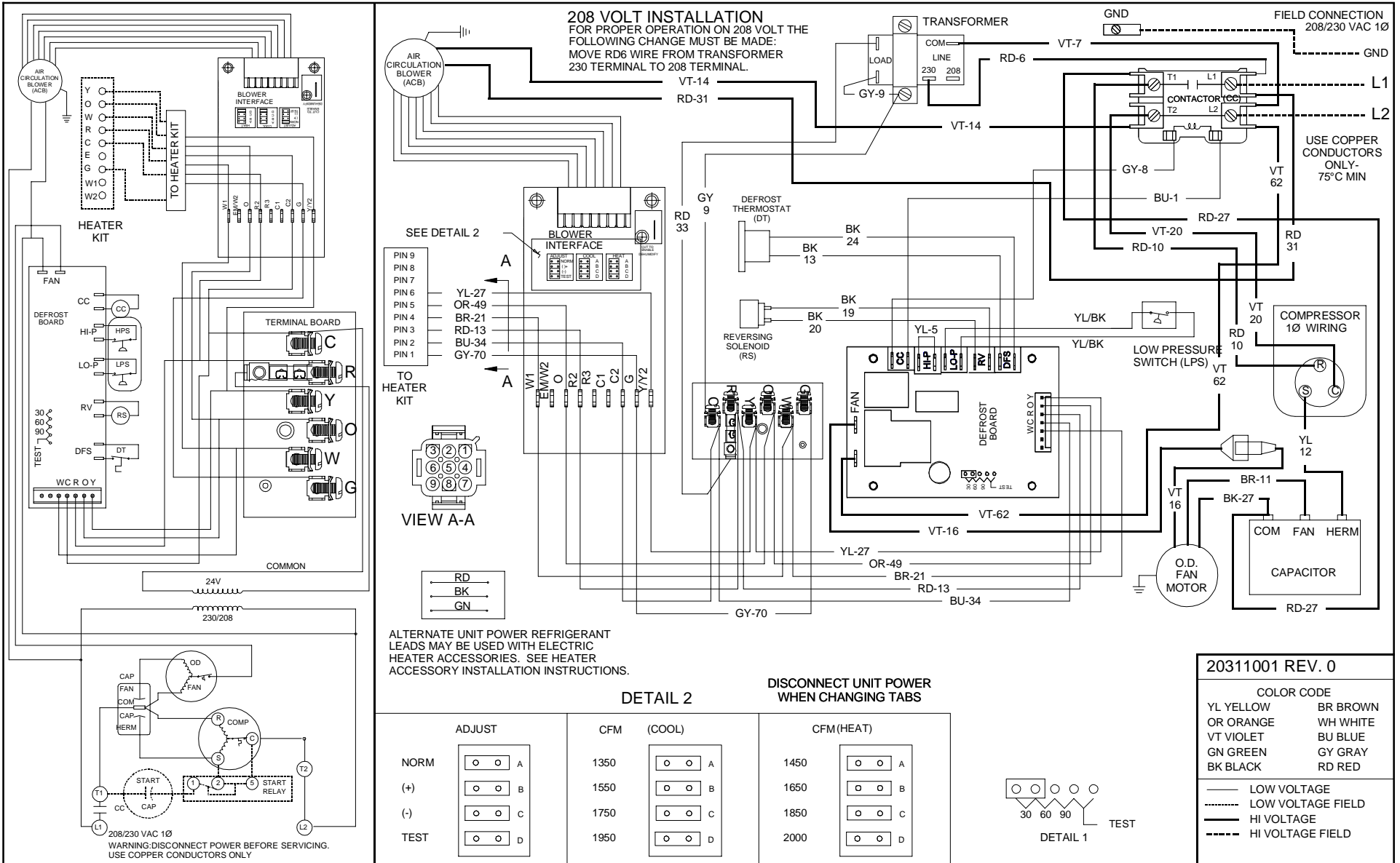
1. All units are manufactured for use on 208/230 VAC, 60 Hz, single phase electrical supply.
2. **IMPORTANT:** While the data is presented as a guide, it is required to determine the proper size fuses and wires to electrically connect the unit in accordance with the National Electrical Code and/or all existing local codes.
3. Performance figures are based on Department of Energy information and requirements under continuous operating conditions. Performance will vary with weather conditions and use.



WARNING

To prevent death, personal injury or property damage due to electrical shock, disconnect electrical power to this unit before servicing or performing maintenance.

3

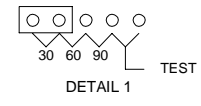


ALTERNATE UNIT POWER REFRIGERANT LEADS MAY BE USED WITH ELECTRIC HEATER ACCESSORIES. SEE HEATER ACCESSORY INSTALLATION INSTRUCTIONS.

DETAIL 2

	ADJUST	CFM (COOL)	CFM (HEAT)
NORM	A	A	A
(+)	B	B	B
(-)	C	C	C
TEST	D	D	D

DISCONNECT UNIT POWER WHEN CHANGING TABS



20311001 REV. 0

COLOR CODE


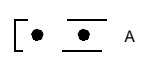

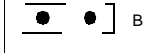


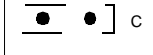





YL YELLOW	BR BROWN
OR ORANGE	WH WHITE
VT VIOLET	BU BLUE
GN GREEN	GY GRAY
BK BLACK	RD RED

— LOW VOLTAGE
 - - - - - LOW VOLTAGE FIELD
 - - - - - HI VOLTAGE
 - - - - - HI VOLTAGE FIELD

Dry Coil Data

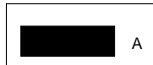

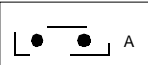
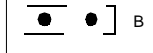


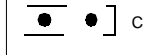





PHD48C02E/PHB60C02E					
COOLING SPEED	ADJUST TAB	CFM @ 0.1 - 0.5 ESP	Heating Speed	Adjust Tab	CFM @ 0.1 - 0.5 ESP
A	Minus	1215	A	Minus	1305
A	Normal	1350	A	Normal	1450
A	Plus	1485	A	Plus	1595
B	Minus	1395	B	Minus	1485
B	Normal	1550	B	Normal	1650
B	Plus	1705	B	Plus	1815
C	Minus	1575	C	Minus	1665
C	Normal	1750	C	Normal	1850
C	Plus	1925	C	Plus	2000
D	Minus	1765	D	Minus	1800
D	Normal	1950	D	Normal	2000
D	Plus	2000	D	Plus	2000

PHD48C02E FACTORY SETTING

	ADJUST	CFM	(COOL)	CFM	(HEAT)
NORM	 A	1350	 A	1450	 A
(+)	 B	1550	 B	1650	 B
(-)	 C	1750	 C	1850	 C
TEST	 D	1950	 D	2000	 D

IMPORTANT NOTE: Disconnect pwer to unit before moving jumper to prevent damage to TAP board. Jumper must be placed parallel with the letter marked on board. Cross jumper may cause damage to TAP board.

PHB60C02E FACTORY SETTING

	ADJUST	CFM	(COOL)	CFM	(HEAT)
NORM	 A	1350	 A	1450	 A
(+)	 B	1550	 B	1650	 B
(-)	 C	1750	 C	1850	 C
TEST	 D	1950	 D	2000	 D

IMPORTANT NOTE: Disconnect pwer to unit before moving jumper to prevent damage to TAP board. Jumper must be placed parallel with the letter marked on board. Cross jumper may cause damage to TAP board.

Electric Strip Heat Data

Electric strip heat data will be included in the specific electric heat kit installation material shipped with the electric heater kit.

Typical Cooling Performance Data - PHD48C02E



CAUTION

The installation must be adjusted to obtain a temperature rise within the range listed on the unit nameplate.

PHD48C02E																										
		Outdoor Ambient Temperature (°F)																								
		65				75				85				95				105				115				
		Entering Indoor Wet Bulb Temperature (°F)																								
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	1800	Delta T	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	15	13	10	-
		AMPS	15.4	15.8	16.2	-	16.5	16.9	17.3	-	17.8	18.1	18.7	-	18.8	19.3	19.8	-	19.9	20.4	21.0	-	21.0	21.5	22.1	-
		HI PR	163	175	185	-	183	197	208	-	208	224	236	-	237	255	269	-	267	287	303	-	294	317	335	-
		LO PR	59	63	69	-	62	66	73	-	65	69	75	-	68	73	79	-	71	76	83	-	74	79	86	-
	1550	Delta T	17	15	11	-	17	15	11	-	17	15	11	-	18	15	12	-	17	15	11	-	16	14	11	-
		AMPS	15.3	15.6	16.1	-	16.4	16.7	17.2	-	17.6	18.0	18.5	-	18.7	19.1	19.7	-	19.8	20.2	20.8	-	20.8	21.3	21.9	-
		HI PR	161	174	183	-	181	195	206	-	206	222	234	-	235	252	267	-	264	284	300	-	292	314	331	-
		LO PR	59	62	68	-	62	66	72	-	64	68	75	-	68	72	78	-	71	75	82	-	73	78	85	-
	1400	Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		AMPS	15.1	15.4	15.9	-	16.2	16.5	17.0	-	17.4	17.8	18.3	-	18.4	18.8	19.4	-	19.5	19.9	20.5	-	20.5	21.0	21.6	-
		HI PR	159	171	180	-	178	192	202	-	202	218	230	-	231	248	262	-	259	279	295	-	287	308	326	-
		LO PR	58	61	67	-	61	65	71	-	63	67	73	-	66	71	77	-	70	74	81	-	72	77	84	-
75	1800	Delta T	18	17	14	10	19	17	14	10	19	17	14	10	19	17	14	10	19	17	14	10	17	16	13	9
		AMPS	15.6	15.9	16.3	16.9	16.6	17.0	17.5	18.1	17.9	18.3	18.8	19.5	19.0	19.4	20.0	20.7	20.1	20.5	21.2	21.9	21.2	21.6	22.3	23.1
		HI PR	165	177	187	195	185	199	210	219	210	226	239	249	239	258	272	284	269	290	306	319	297	320	338	353
		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	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
		AMPS	15.4	15.8	16.2	16.7	16.5	16.9	17.4	17.9	17.8	18.1	18.7	19.3	18.8	19.3	19.8	20.5	19.9	20.4	21.0	21.7	21.0	21.5	22.1	22.9
		HI PR	163	175	185	193	183	197	208	217	208	224	236	247	237	255	269	281	267	287	303	316	295	317	335	349
		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
	1400	Delta T	21	19	16	11	21	19	16	11	21	20	16	11	21	20	16	11	21	19	16	11	20	18	15	10
		AMPS	15.2	15.5	16.0	16.5	16.3	16.6	17.1	17.7	17.5	17.9	18.4	19.0	18.6	19.0	19.6	20.2	19.6	20.1	20.7	21.4	20.7	21.2	21.8	22.6
		HI PR	160	172	182	190	180	194	204	213	205	220	232	242	233	251	265	276	262	282	298	311	290	312	329	343
		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
80	1800	Delta T	21	20	17	14	21	20	17	14	21	20	17	14	21	20	18	14	21	20	17	14	19	19	16	13
		AMPS	15.7	16.0	16.5	17.0	16.8	17.1	17.6	18.2	18.1	18.4	19.0	19.6	19.2	19.6	20.2	20.9	20.3	20.7	21.3	22.1	21.4	21.8	22.5	23.3
		HI PR	166	179	189	197	187	201	212	221	212	228	241	252	242	260	275	287	272	293	309	322	300	323	341	356
		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
	1550	Delta T	22	21	18	15	22	22	19	15	22	22	19	15	23	22	19	15	22	21	19	15	21	20	17	14
		AMPS	15.6	15.9	16.3	16.9	16.6	17.0	17.5	18.1	17.9	18.3	18.8	19.5	19.0	19.4	20.0	20.7	20.1	20.5	21.2	21.9	21.2	21.6	22.3	23.1
		HI PR	165	177	187	195	185	199	210	219	210	226	239	249	239	258	272	284	269	290	306	319	298	320	338	353
		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
	1400	Delta T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	22	21	18	15
		AMPS	15.3	15.7	16.1	16.6	16.4	16.8	17.3	17.8	17.7	18.0	18.6	19.2	18.7	19.1	19.7	20.4	19.8	20.2	20.9	21.6	20.9	21.3	22.0	22.7
		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	59	62	68	73	62	66	72	77	64	69	75	80	68	72	79	84	71	75	82	88	73	78	85	91

*Entering Dry Bulb Temperature.

NOTE: Darker shaded area with white lettering is ARI rating conditions, (95° ambient, 80° IDB + 67° IWB).

Lighter shaded area with black lettering is ACCA rating conditions, (95° ambient, 75° IDB + 63° IWB).

All Pressures are PSIG. All temperatures are in °F.

Low and high pressure are measured at gauge port.

Amps are total unit amps at a rated voltage of 230 VAC.

Typical Cooling Performance Data - PHB60C02E



CAUTION

The installation must be adjusted to obtain a temperature rise within the range listed on the unit nameplate.

PHB60C02E																																	
IDB*		Airflow		Outdoor Ambient Temperature (°F)																													
				65				75				85				95				105				115									
				Entering Indoor Wet Bulb Temperature (°F)																													
		59				63				67				71				59				63				67				71			
70	2000	Delta T	17	15	11	-	17	15	11	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-							
		AMPS	19.9	20.4	21.0	-	21.4	21.8	22.5	-	23.0	23.5	24.3	-	24.5	25.0	25.8	-	25.9	26.5	27.3	-	27.3	27.9	28.8	-							
		HI PR	173	186	197	-	194	209	221	-	221	238	251	-	251	271	286	-	283	304	321	-	313	336	355	-							
		LO PR	57	61	67	-	61	64	70	-	63	67	73	-	66	70	77	-	69	74	80	-	72	76	83	-							
	1750	Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-							
		AMPS	19.8	20.2	20.8	-	21.2	21.7	22.3	-	22.8	23.3	24.1	-	24.3	24.8	25.6	-	25.7	26.3	27.1	-	27.1	27.7	28.6	-							
		HI PR	171	184	195	-	192	207	218	-	219	235	248	-	249	268	283	-	280	301	318	-	309	333	352	-							
		LO PR	57	60	66	-	60	64	70	-	62	66	72	-	65	70	76	-	69	73	80	-	71	76	82	-							
	1600	Delta T	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	15	12	-							
		AMPS	19.5	19.9	20.5	-	20.9	21.4	22.0	-	22.5	23.0	23.7	-	23.9	24.5	25.2	-	25.3	25.9	26.7	-	26.7	27.3	28.1	-							
		HI PR	168	181	191	-	189	203	215	-	215	231	244	-	245	263	278	-	275	296	313	-	304	327	346	-							
		LO PR	56	59	65	-	59	63	68	-	61	65	71	-	64	68	75	-	67	72	78	-	70	74	81	-							
75	2000	Delta T	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	10	19	17	14	10							
		AMPS	20.1	20.5	21.1	21.8	21.6	22.0	22.7	23.4	23.2	23.7	24.5	25.3	24.7	25.2	26.0	26.9	26.1	26.7	27.5	28.5	27.6	28.2	29.1	30.1							
		HI PR	175	188	199	207	196	211	223	232	223	240	253	264	254	273	289	301	286	308	325	339	316	340	359	374							
		LO PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	74	81	87	72	77	84	90							
	1750	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							
		AMPS	19.9	20.4	21.0	21.7	21.4	21.8	22.5	23.2	23.0	23.5	24.3	25.1	24.5	25.0	25.8	26.7	25.9	26.5	27.3	28.3	27.3	27.9	28.8	29.8							
		HI PR	173	186	197	205	194	209	221	230	221	238	251	262	252	271	286	298	283	304	322	335	313	336	355	371							
		LO PR	57	61	67	71	61	64	70	75	63	67	73	78	66	70	77	82	69	74	81	86	72	76	83	89							
	1600	Delta T	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	12	21	19	16	11							
		AMPS	19.7	20.1	20.7	21.4	21.1	21.5	22.2	22.9	22.7	23.2	23.9	24.7	24.1	24.7	25.4	26.3	25.5	26.1	26.9	27.8	26.9	27.5	28.4	29.4							
		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	56	60	65	70	60	63	69	74	62	66	72	77	65	69	76	80	68	72	79	84	70	75	82	87							
80	2000	Delta T	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	21	19	15	21	20	17	14							
		AMPS	20.3	20.7	21.3	22.0	21.7	22.2	22.9	23.6	23.4	23.9	24.7	25.5	24.9	25.4	26.2	27.1	26.3	26.9	27.8	28.8	27.8	28.4	29.3	30.3							
		HI PR	177	190	201	209	198	213	225	235	225	242	256	267	257	276	292	304	289	311	328	342	319	343	362	378							
		LO PR	59	62	68	72	62	66	72	76	64	68	75	79	67	72	78	83	71	75	82	87	73	78	85	90							
	1750	Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15							
		AMPS	20.1	20.5	21.1	21.8	21.6	22.0	22.7	23.4	23.2	23.7	24.5	25.3	24.7	25.2	26.0	26.9	26.1	26.7	27.5	28.5	27.6	28.2	29.1	30.1							
		HI PR	175	188	199	207	196	211	223	232	223	240	253	264	254	273	289	301	286	308	325	339	316	340	359	374							
		LO PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	74	81	87	72	77	84	90							
	1600	Delta T	25	23	20	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	16	23	22	19	15							
		AMPS	19.8	20.3	20.8	21.5	21.3	21.7	22.4	23.1	22.9	23.4	24.1	24.9	24.3	24.9	25.6	26.5	25.8	26.3	27.1	28.1	27.2	27.8	28.6	29.6							
		HI PR	172	185	195	204	193	207	219	229	219	236	249	260	250	269	284	296	281	302	319	333	310	334	353	368							
		LO PR	57	61	66	70	60	64	70	74	63	67	73	77	66	70	76	81	69	73	80	85	71	76	83	88							

*Entering Dry Bulb Temperature.

NOTE: Darker shaded area with white lettering is ARI rating conditions, (95° ambient, 80° IDB + 67° IWB).

Lighter shaded area with black lettering is ACCA rating conditions, (95° ambient, 75° IDB + 63° IWB).

All Pressures are PSIG. All temperatures are in °F.

Low and high pressure are measured at gauge port.

Amps are total unit amps at a rated voltage of 230 VAC.