

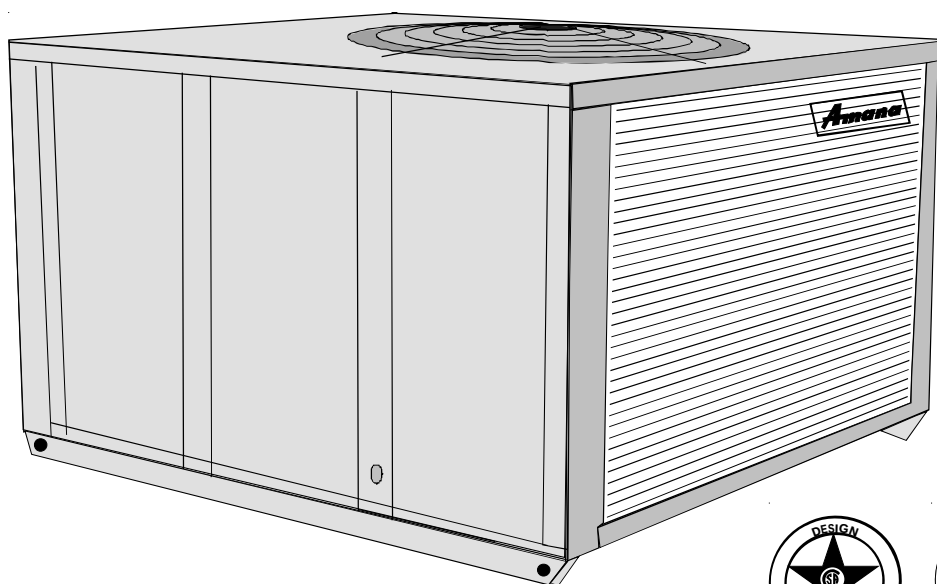
TECHNICAL INFORMATION MANUAL

PHD**C02E /PHD**C02E1/
PHD**C02F1

Model and Manufacturing
numbers listed on page 3.

Package Heat Pump Units

- Refer to Service Manual RS6300003 Rev. 1 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.



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.

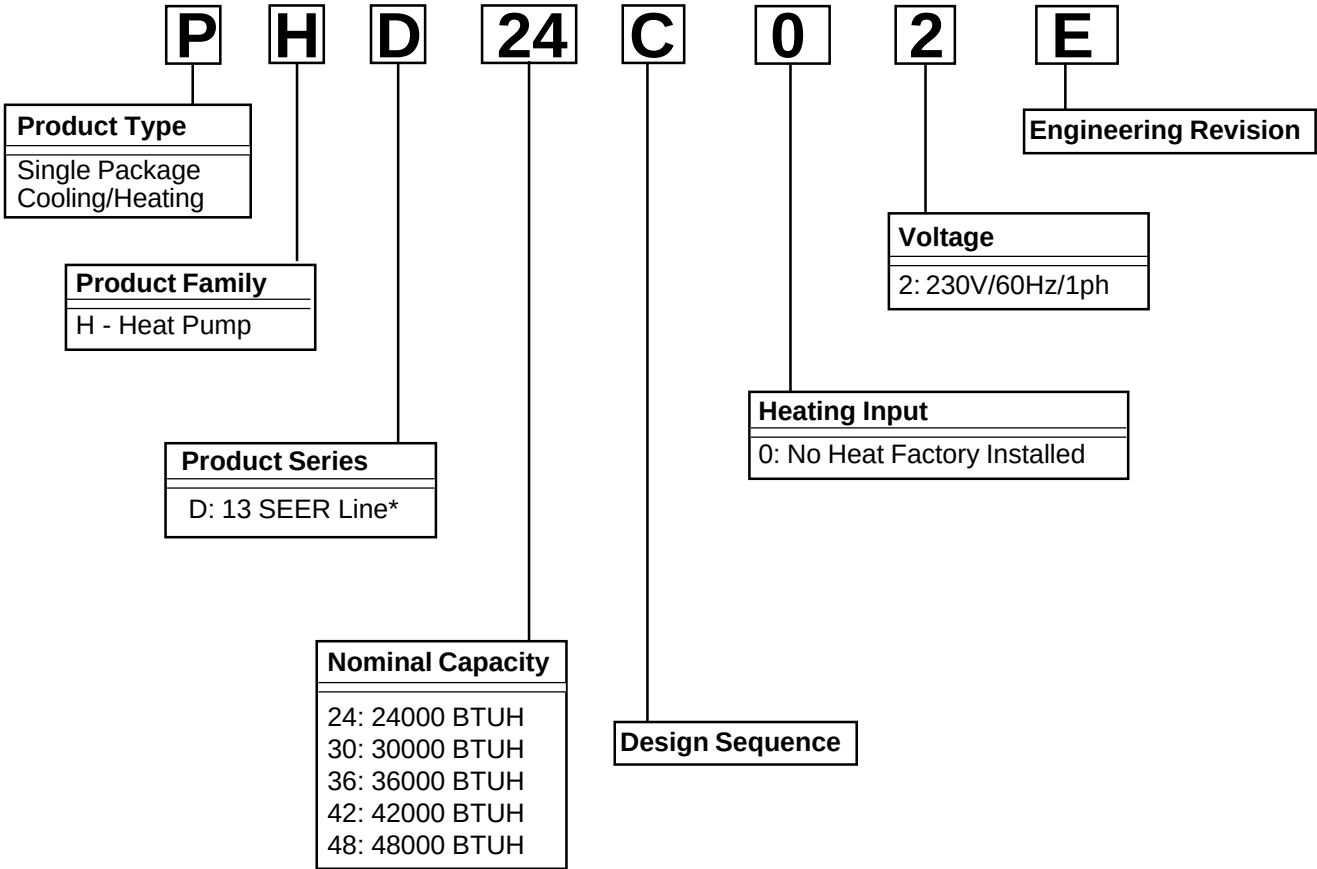
RT6332002 Rev. 4
November 2005

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IMPORTANT INFORMATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.



***NOTE:** PHD48 has a 12.0 SEER rating.



WARNING

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



WARNING

ONLY INDIVIDUAL MEETING THE REQUIREMENTS OF AN "ENTRY LEVEL TECHNICIAN" AS SPECIFIED BY THE AIR CONDITIONING AND REFRIGERATION INSTITUTE (ARI) MAY USE THIS INFORMATION. ATTEMPTING TO INSTALL OR REPAIR THIS UNIT WITHOUT SUCH BACKGROUND MAY RESULT IN PRODUCT DAMAGE, PERSONAL INJURY, OR DEATH.

IMPORTANT INFORMATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.

<u>MODEL</u>	<u>M/N</u>	<u>MODEL</u>	<u>M/N</u>	<u>MODEL</u>	<u>M/N</u>
PHD24C02E	P1224301C	PHD24C02E1	P1239706C	PHD24C02F1	P1239718C
PHD30C02E	P1224302C	PHD30C02E1	P1239707C	PHD30C02F1	P1239719C
PHD36C02E	P1224303C	PHD36C02E1	P1239708C	PHD36C02F1	P1239720C
PHD42C02E	P1224304C	PHD42C02E1	P1239709C	PHD42C02F1	P1239721C
PHD48C02E	P1224305C	PHD48C02E1	P1239710C	PHD48C02F1	P1239722C
		PHD24C02E1	P1239711C	PHD60C02F1	P1239723C
PHD24C02E	P1235701C				
PHD30C02E	P1235702C	PHD24C02E1	P1239712C		
PHD36C02E	P1235703C	PHD30C02E1	P1239713C		
PHD42C02E	P1235704C	PHD36C02E1	P1239714C		
PHD48C02E	P1235705C	PHD42C02E1	P1239715C		
		PHD48C02E1	P1239716C		
		PHD60C02E1	P1239717C		



TO PREVENT THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH, DO NOT STORE COMBUSTIBLE MATERIALS OR USE GASOLINE OR OTHER FLAMMABLE LIQUIDS OR VAPORS IN THE VICINITY OF THIS APPLIANCE.



DO NOT CONNECT TO OR USE ANY DEVICE THAT IS NOT DESIGN CERTIFIED BY GOODMAN FOR USE WITH THIS UNIT. SERIOUS PROPERTY DAMAGE, PERSONAL INJURY, REDUCED UNIT PERFORMANCE AND/OR HAZARDOUS CONDITIONS MAY RESULT FROM THE USE OF SUCH NON-APPROVED DEVICES.

IMPORTANT INFORMATION

Amana® brand PHD Package Units are designed for outdoor installations only in either residential or light commercial applications.

The connecting ductwork (Supply and Return) can be connected for either horizontal or vertical airflow. In the vertical application a matching Roof Curb is recommended

A return air filter must be installed behind the return air grille(s) or provision must be made for a filter in an accessible location within the return air duct. The minimum filter area should not be less than those sizes listed in the Specification Section. Under no circumstances should the unit be operated without return air filters.

A 3/4" pipe is provided for removal of condensate water from the indoor coil. In order to provide proper condensate flow, a drain trap is supplied by Amana and shipped loose inside the unit for field installation. (Do not reduce the drain line size).

Package Heat Pump models use a combination of restrictor orifices and thermostatic expansion valves for refrigerant flow control.

Some heat pump models also have a suction line accumulator installed between the reversing valve and the compressor. The object of the accumulator is to:

1. Provide a liquid refrigerant storage vessel during prolonged system off cycles.
2. Store excess liquid refrigerant not needed by the system while running.
3. Return oil and saturated vapor to the compressor at a controlled rate.
4. Retain stored excess refrigerant during a sudden system pressure fluctuation such as seen in defrost cycles.

The single phase units use permanent split capacitor (PSC) design compressors. Starting components are therefore not required. A low microfarad run capacitor assists the compressor to start and remains in the circuit during operation.

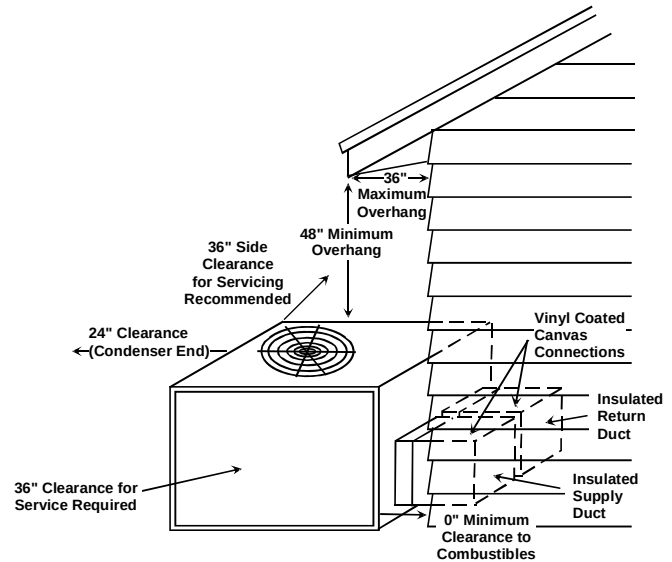
The outdoor fan and indoor blower motors are single phase capacitor type motors.

Air for condensing (cooling cycle) or evaporation (heating cycle) is drawn through the outdoor coil by a propeller fan, and is discharged vertically out the top of the unit. The outdoor coil is designed for .0 static. No additional restriction (ductwork) shall be applied.

Conditioned air is drawn through the filter(s), field installed, across the coil and back into the conditioned space by the indoor blower.

Package Heat Pump indoor sections are designed to accept optional components such as auxiliary electric heaters and circuit breakers. Provisions for these components have been made at time of manufacture.

Location and Clearances



In installations where the unit is installed above ground level and not serviceable from the ground (Example: roof top installations) the installer must provide service platform for service person with rails or guards in accordance with local codes or ordinances, or, in their absence, with the latest edition of the Uniform Mechanical Code Section 305.

NOTE: Unit can also use Roof Curb (and platform for leveling, where necessary) to utilize bottom discharge.

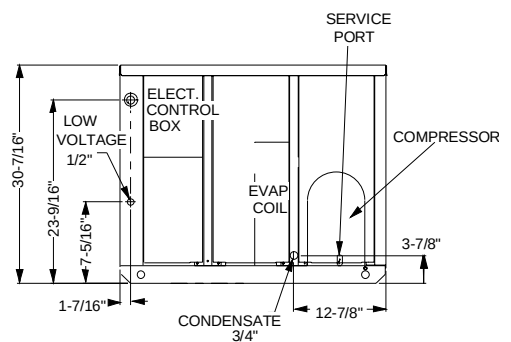
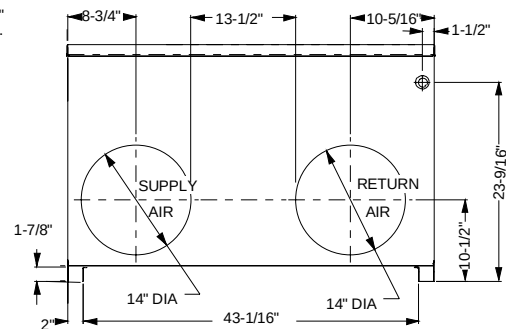
WARNING

TO PREVENT POSSIBLE PROPERTY DAMAGE, THE UNIT SHOULD REMAIN IN AN UPRIGHT POSITION DURING ALL RIGGING AND MOVING OPERATIONS. TO FACILITATE LIFTING AND MOVING IF A CRANE IS USED, PLACE THE UNIT IN AN ADEQUATE CABLE SLING.

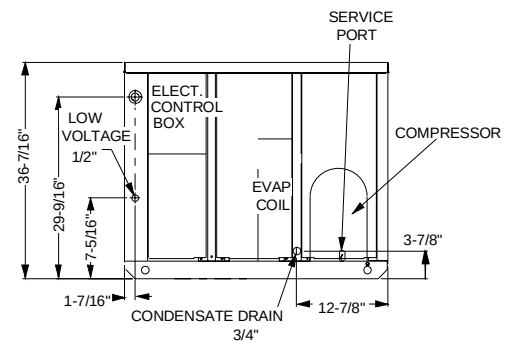
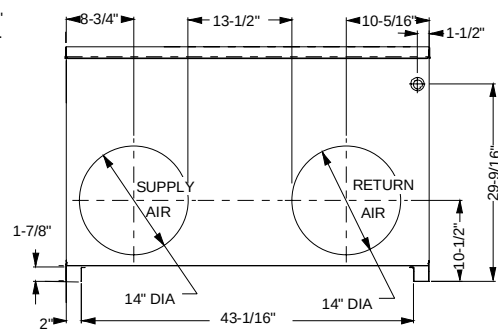
IMPORTANT: If using bottom discharge with Roof Curb, ductwork should be attached to the curb prior to installing the unit.

Refer to RoofCurb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.

PRODUCT DIMENSIONS

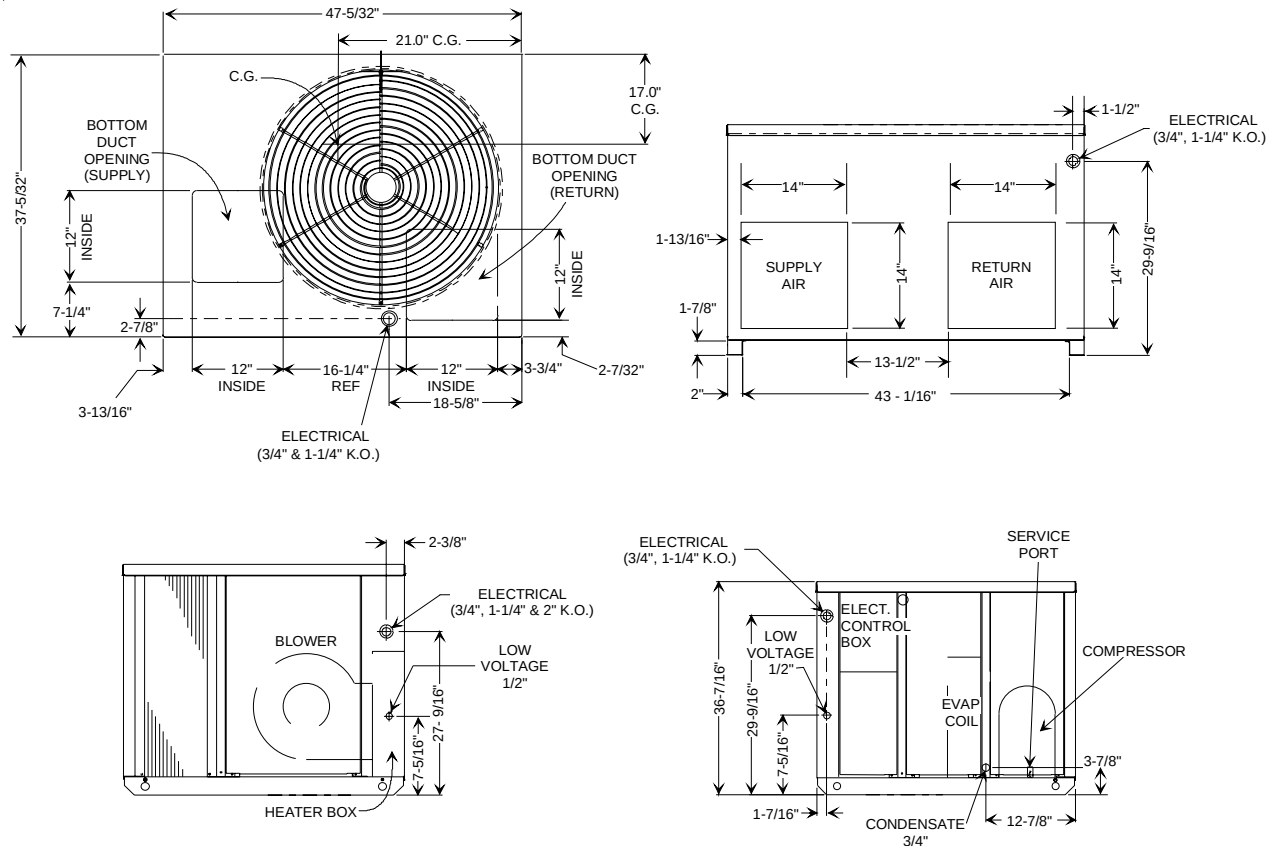


PHD24-30

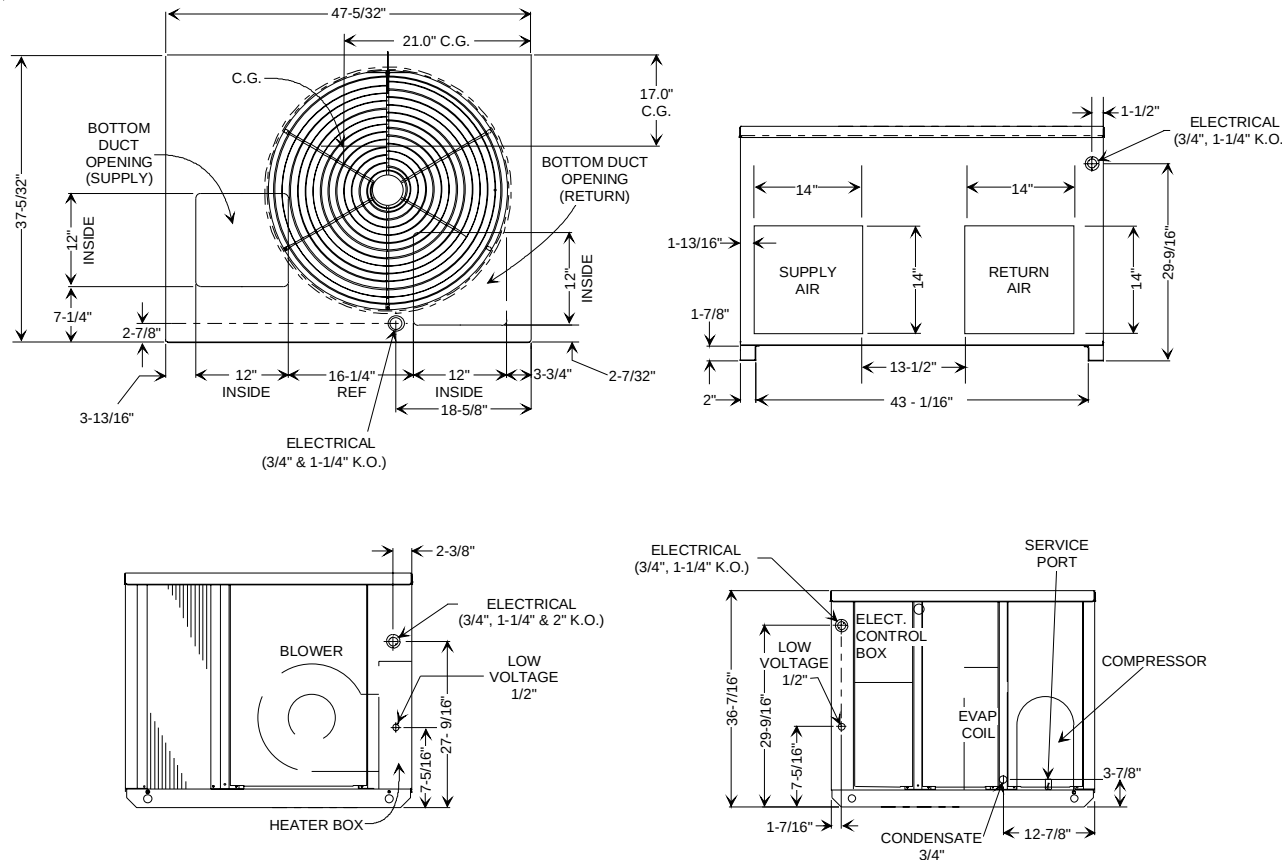


PHD36-42

PRODUCT DIMENSIONS



PHD48



PHD60

PACKAGE HEAT PUMP SPECIFICATIONS

		PHD24C02*	PHD30C02*	PHD36C02*
COOLING CAPACITY	COOLING CAPACITY, BTUH	24,000	29,400	34,000
	SEER	13.05	13.05	13.05
HEATING RATING	47°/43°F	23,600	29,400	33,000
	35°/33°F	19,600	24,400	29,000
	17°/15°F	12,600	16,000	19,000
	HSPF	7.1	7.1	7.1
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	15.3	18.9	20.4
	MIN CIRCUIT AMPACITY	18.2	22.7	24.2
	MAX OVERCURRENT PROTECTION	25	30	30
COMPRESSOR	TYPE	Scroll	Scroll	Scroll
	OPTIONAL SOUND BLANKET	Std.	Std.	Std.
	RATED LOAD AMPS	11.4	15	16.4
	LOCKED ROTOR AMPS	56.0	72.5	83.0
CONDENSER FAN MOTOR	HORSEPOWER	1/5	1/5	1/5
	RPM	825	825	825
	FULL LOAD AMPS	1.3	1.3	1.3
	LOCKED ROTOR AMPS	2.0	2.0	2.0
CONDENSER FAN	BLADE DIAMETER (INCHES) / # OF BLADES	22 / 4	22 / 4	22 / 4
	CFM	2200	2200	2200
CONDENSER COIL	FACE AREA (SQ. FT.)	10.2	10.2	12.4
	NUMBER OF ROWS	2	2	2
	FINS PER INCH	20	20	20
EVAPORATOR BLOWER MOTOR	HORSEPOWER - # OF SPEEDS	1/3 - 4	1/3 - 4	1/3 - 4
	FULL LOAD AMPS	2.6	2.6	2.6
	LOCKED ROTOR AMPS	4.2	4.2	4.2
	MOTOR SPEED TAP - COOLING	LOW	MED-LOW	MED-HIGH
	RPM	790	840	960
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 X 8	10 X 8	10 X 8
	RATED SCFM COOLING	810	1020	1100
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA (SQ. FT.)	3.2	3.2	4.4
	NUMBER OF ROWS	3	4	4
	FINS PER INCH	14	14	14
GENERAL INFORMATION	FILTER SIZE (SQ. FT.)	3.0	3.4	3.0
	DRAIN SIZE (INCHES)	3/4	3/4	3/4
	EXPANSION DEVICE	ORIFICE	ORIFICE	TXV/TXV
	REFRIGERANT CHARGE R-22 (OZS.)	125	125	150
	POWER SUPPLY ENTRANCE SIZE (INCHES)	3/4, 1-1/4	3/4, 1-1/4	3/4, 1-1/4
	LOW VOLTAGE ENTRANCE SIZE (INCHES)	3/4	3/4	3/4
	SHIPPING WEIGHT (LBS.)	315	324	365
	OPERATING WEIGHT (LBS.)	304	313	352
ACCESSORIES	ROOFCURB - HEAT PUMP	PRC06A1	PRC06A1	PRC06A1
	ROOFCURB - COMBINATION	PRC08A1	PRC08A1	PRC08A1
	SIDE-BY-SIDE TO OVER/UNDER KIT	PDTR0U4A	PDTR0U4A	PDTR0U4A
	ELECTRIC HEATER KIT	PHCB**C1	PHCB**C1	PHCB**C1
	SINGLE POINT WIRING KIT*	SPK04A	SPK05A	SPK06A
	HORIZONTAL DUCT COVER KIT	CHK00A1	CHK001A	CHK001A
	AMBIENT THERMOSTAT KIT	ATK01	ATK01	ATK01

IMPORTANT: While this data is presented as a guide, it is important to electrically connect the unit and properly size wires and fuses/circuit breakers in accordance with the National Electrical Code and/or all local codes. Data shown is w/o electric heaters. See "Electric Heaters" in the SYSTEM OPERATION section for additional information.



WARNING

All wires and overcurrent protection devices are sized without electric heaters. If heaters are installed with above wire size, overheating and fire could occur. Refer to heater kit installation manual for wire size and overcurrent protection device size with heaters installed. Also refer to the unit nameplate.

PACKAGE HEAT PUMP SPECIFICATIONS

		PHD42C02*	PHD48C02*	PHD60C02*
COOLING CAPACITY	COOLING CAPACITY, BTUH	40,000	48,000	56,000
	SEER	13.05	12.00	13.00
HEATING RATING	47°/43°F	40,000	47,000	54,000
	35°/33°F	35,000	38,500	44,000
	17°/15°F	21,500	26,500	30,000
	HSPF	7.1	7.0	6.8
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	25.6	28.4	34.8
	MIN CIRCUIT AMPACITY	28.9	33.2	41.0
	MAX OVERCURRENT PROTECTION	35	50	60
COMPRESSOR	TYPE	Scroll	Scroll	Scroll
	OPTIONAL SOUND BLANKET	Std.	Std.	Std.
	RATED LOAD AMPS	20	19.2	24.6
	LOCKED ROTOR AMPS	104.0	137.0	118.0
CONDENSER FAN MOTOR	HORSEPOWER	1/5	1/3	1/3
	RPM	825	1100	1100
	FULL LOAD AMPS	1.3	2.4	2.4
	LOCKED ROTOR AMPS	2.0	5.8	5.8
CONDENSER FAN	BLADE DIAMETER (INCHES) / # OF BLADES	22 / 4	22 / 4	22 / 4
	CFM	2200	3000	3000
CONDENSER COIL	FACE AREA (SQ. FT.)	12.4	12.2	12.2
	NUMBER OF ROWS	2	2	3
	FINS PER INCH	20	18	20
EVAPORATOR BLOWER MOTOR	HORSEPOWER - # OF SPEEDS	ECM	ECM	ECM
	FULL LOAD AMPS	4.3	6.8	6.8
	LOCKED ROTOR AMPS	ECM	ECM	ECM
	MOTOR SPEED TAP - COOLING	VARIABLE	VARIABLE	VARIABLE
	RPM	VARIABLE	VARIABLE	VARIABLE
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 X 8	10 X 8	10 X 8
	RATED SCFM COOLING	1200	1550	1750
	MAX EXTERNAL STATIC PRESS ("w .c.)	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA (SQ. FT.)	4.4	4.4	4.4
	NUMBER OF ROWS	4	4	5
	FINS PER INCH	14	14	14
GENERAL INFORMATION	FILTER SIZE (SQ. FT.)	3.4	5.5	6.5
	DRAIN SIZE (INCHES)	3/4	3/4	3/4
	EXPANSION DEVICE	TXV / TXV	TXV / TXV	TXV / TXV
	REFRIGERANT CHARGE R-22 (OZS.)	125	150	150
	POWER SUPPLY ENTRANCE SIZE (INCHES)	3/4, 1-1/4	3/4, 1-1/4	3/4, 1- 1/4
	LOW VOLTAGE ENTRANCE SIZE (INCHES)	3/4	3/4	3/4
	SHIPPING WEIGHT (LBS.)	373	378	388
	OPERATING WEIGHT (LBS.)	360	365	375
ACCESSORIES	ROOFCURB - HEAT PUMP	PRC06A1	PRC06A1	PRC06A1
	ROOFCURB - COMBINATION	PRC08A1	PRC08A1	PRC08A1
	SIDE-BY-SIDE TO OVER/UNDER KIT	PDTR0U4A	PDTR0U4A	PDTR0U4A/6A
	ELECTRIC HEATER KIT	PHCB**C1	PHCB**C1	PHCB**C1
	SINGLE POINT WIRING KIT*	SPK06A	SPK08A	SPK09A
	HORIZONTAL DUCT COVER KIT	CHK00A1	CHK001A	CHK001A
	AMBIENT THERMOSTAT KIT	ATK01	ATK01	ATK01

IMPORTANT: While this data is presented as a guide, it is important to electrically connect the unit and properly size wires and fuses/circuit breakers in accordance with the National Electrical Code and/or all local codes. Data shown is w/o electric heaters. See "Electric Heaters" in the SYSTEM OPERATION section for additional information.



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All wires and overcurrent protection devices are sized without electric heaters. If heaters are installed with above wire size, overheating and fire could occur. Refer to heater kit installation manual for wire size and overcurrent protection device size with heaters installed. Also refer to the unit nameplate.

BLOWER PERFORMANCE DATA

Dry Coil Data

PHD 24, 30, 36C02*								
Unit Static (In. W.C.)	Fan Speed							
	Low		Med-Low		Med-High		High	
	CFM	Watts	CFM	Watts	CFM	Watts	CFM	Watts
0.1	840	230	1010	295	1230	385	1660	550
0.2	820	225	990	287	1205	372	1600	530
0.3	800	220	970	280	1180	360	1540	510
0.4	770	210	940	270	1150	345	1480	485
0.5	735	200	905	260	1110	330	1420	460
0.6	700	185	850	250	1060	305	1350	435
0.7	660	170	790	235	1005	290	1280	410
0.8	605	155	700	220	905	275	1205	390

Shaded area shows blower performance outside allowable duct static. For reference only.

PHD42C02*					
COOLING SPEED	ADJUST TAB	CFM @ 0.1 - 0.5 ESP	Heating Speed	Adjust Tab	CFM @ 0.1 - 0.5 ESP
A	Minus	750	A	Minus	790
A	Normal	840	A	Normal	880
A	Plus	920	A	Plus	960
B	Minus	880	B	Minus	900
B	Normal	980	B	Normal	1010
B	Plus	1070	B	Plus	1110
C	Minus	1050	C	Minus	1060
C	Normal	1170	C	Normal	1180
C	Plus	1280	C	Plus	1290
D	Minus	1210	D	Minus	1150
D	Normal	1350	D	Normal	1280
D	Plus	1480	D	Plus	1400

PHD48C02*					
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

BLOWER PERFORMANCE DATA

PHD60C02*						
Cooling Speed	Adjust Tab	CFM @ 0.1 - 0.5 SP		Heating Speed	Adjust Tab	CFM @ 0.1 - 0.5 SP
		High Stage	Low Stage			
A	Minus	1215	850	A	Minus	1305
A	Normal	1350	945	A	Normal	1450
A	Plus	1485	1040	A	Plus	1595
B	Minus	1395	975	B	Minus	1485
B	Normal	1550	1085	B	Normal	1650
B	Plus	1705	1195	B	Plus	1815
C	Minus	1575	1100	C	Minus	1665
C	Normal	1750	1225	C	Normal	1850
C	Plus	1925	1350	C	Plus	2000
D	Minus	1620	1135	D	Minus	1800
D	Normal	1800	1260	D	Normal	2000
D	Plus	1980	1385	D	Plus	2000

BLOWER PERFORMANCE DATA

PHD42 & 48C02* ECM CIRCULATOR BLOWER SPEED TAP ADJUSTMENT JUMPER PINS

PHD42C02* FACTORY SETTING

CFM	(Cool)		ADJUST		KW	(Heat)
800		A	Norm		5kW	
1000		B	(+)		10kW	
1200		C	(-)		15kW	
1400		D	TEST		20kW	

IMPORTANT NOTE: Disconnect power 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.

PHD48C02* FACTORY SETTING

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

IMPORTANT NOTE: Disconnect power 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.

PHD60C02* ECM CIRCULATOR BLOWER SPEED TAP ADJUSTMENT JUMPER PINS

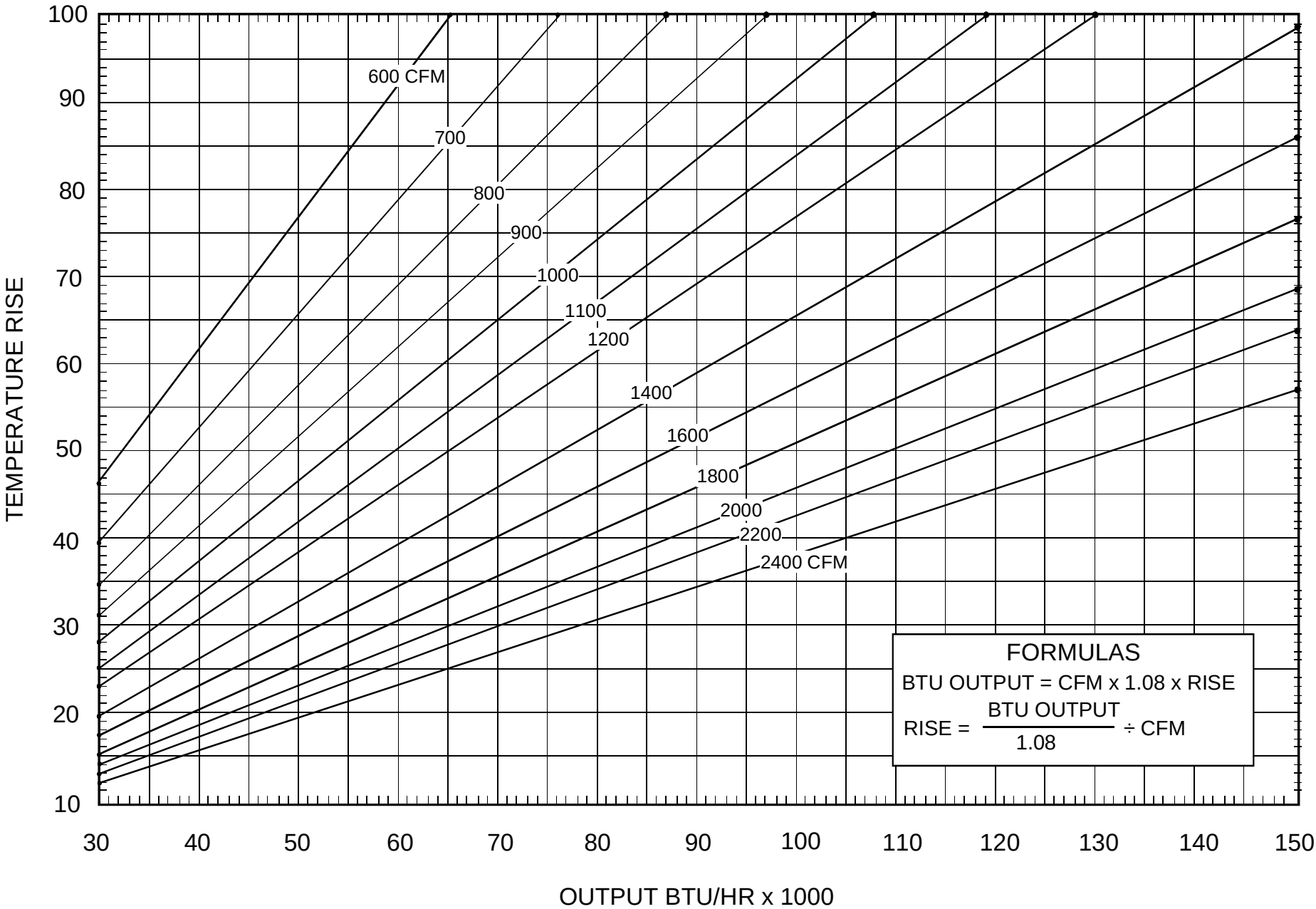
PHD60C02* FACTORY SETTING

	ADJUST	CFM	(COOL)	CFM	(HEAT)
NORM		1350		1450	
(+)		1550		1650	
(-)		1750		1850	
TEST		1800		2000	

IMPORTANT NOTE: Disconnect power 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.

BTU OUTPUT vs TEMPERATURE RISE CHART

BLOWER PERFORMANCE DATA



EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHD24C02*

COOLING PERFORMANCE DATA

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	960	MBh	23.2	24.0	26.3	-	22.6	23.5	25.7	-	22.1	22.9	25.1	-	21.6	22.3	24.5	-	20.5	21.2	23.3	-	19.0	19.7	21.5	-
		S/T	0.72	0.60	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.83	0.69	0.48	-
		Delta T	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	15	13	10	-
		KW	1.69	1.72	1.77	-	1.80	1.84	1.89	-	1.91	1.94	2.00	-	2.00	2.04	2.10	-	2.07	2.12	2.18	-	2.14	2.18	2.25	-
		AMPS	7.2	7.3	7.5	-	7.6	7.8	8.0	-	8.1	8.3	8.5	-	8.6	8.8	9.0	-	9.0	9.2	9.5	-	9.5	9.7	10.0	-
		HI PR	140	151	160	-	158	170	179	-	179	193	204	-	204	220	232	-	230	247	261	-	254	273	288	-
	LO PR	62	66	72	-	66	70	76	-	68	73	79	-	72	76	83	-	75	80	87	-	78	83	90	-	
	860	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	0.69	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	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-
		KW	1.68	1.71	1.76	-	1.79	1.83	1.88	-	1.90	1.93	1.99	-	1.99	2.03	2.09	-	2.06	2.10	2.17	-	2.13	2.17	2.24	-
		AMPS	7.1	7.3	7.4	-	7.6	7.7	7.9	-	8.1	8.3	8.5	-	8.5	8.7	9.0	-	9.0	9.2	9.4	-	9.4	9.6	9.9	-
		HI PR	139	150	158	-	156	168	178	-	178	191	202	-	203	218	230	-	228	245	259	-	252	271	286	-
	LO PR	62	66	72	-	65	69	76	-	68	72	79	-	71	76	83	-	75	79	87	-	77	82	90	-	
	760	MBh	21.7	22.5	24.6	-	21.2	22.0	24.1	-	20.7	21.4	23.5	-	20.2	20.9	22.9	-	19.2	19.9	21.8	-	17.8	18.4	20.2	-
		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	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-
		KW	1.65	1.68	1.73	-	1.77	1.80	1.85	-	1.87	1.90	1.96	-	1.96	2.00	2.06	-	2.03	2.07	2.14	-	2.10	2.14	2.20	-
		AMPS	7.0	7.2	7.3	-	7.5	7.6	7.8	-	8.0	8.1	8.4	-	8.4	8.6	8.8	-	8.9	9.0	9.3	-	9.3	9.5	9.8	-
		HI PR	137	147	155	-	153	165	174	-	174	188	198	-	199	214	226	-	223	240	254	-	247	266	281	-
	LO PR	61	64	70	-	64	68	74	-	67	71	77	-	70	74	81	-	73	78	85	-	76	81	88	-	

75	960	MBh	23.6	24.3	26.3	28.2	23.0	23.7	25.7	27.5	22.5	23.1	25.0	26.9	21.9	22.6	24.4	26.2	20.8	21.4	23.2	24.9	19.3	19.9	21.5	23.1
		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	0.41	0.94	0.84	0.64	0.41
		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
		KW	1.70	1.73	1.78	1.83	1.82	1.85	1.91	1.96	1.92	1.96	2.02	2.08	2.01	2.05	2.11	2.18	2.09	2.13	2.20	2.27	2.16	2.20	2.27	2.34
		AMPS	7.2	7.3	7.5	7.8	7.7	7.8	8.0	8.3	8.2	8.4	8.6	8.9	8.7	8.8	9.1	9.4	9.1	9.3	9.6	9.9	9.6	9.8	10.0	10.4
		HI PR	142	153	161	168	159	171	181	189	181	195	206	215	206	222	234	244	232	250	264	275	256	276	291	304
	LO PR	63	67	73	78	66	71	77	82	69	73	80	85	73	77	84	90	76	81	88	94	79	84	91	97	
	860	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	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39
		Delta T	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	18	17	14	10
		KW	1.69	1.72	1.77	1.82	1.81	1.84	1.90	1.95	1.91	1.95	2.01	2.07	2.00	2.04	2.10	2.17	2.08	2.12	2.19	2.25	2.15	2.19	2.26	2.33
		AMPS	7.2	7.3	7.5	7.7	7.6	7.8	8.0	8.2	8.2	8.3	8.5	8.8	8.6	8.8	9.0	9.3	9.1	9.3	9.5	9.8	9.5	9.7	10.0	10.3
		HI PR	141	152	160	167	158	170	180	187	180	193	204	213	205	220	233	243	230	248	262	273	254	274	289	302
	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	
	760	MBh	22.1	22.7	24.6	26.4	21.5	22.2	24.0	25.8	21.0	21.7	23.4	25.2	20.5	21.1	22.9	24.5	19.5	20.1	21.7	23.3	18.1	18.6	20.1	21.6
		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	0.86	0.76	0.58	0.37	0.86	0.77	0.58	0.38
		Delta T	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	11	19	17	14	10
		KW	1.67	1.70	1.74	1.80	1.78	1.81	1.87	1.92	1.88	1.92	1.98	2.04	1.97	2.01	2.07	2.13	2.05	2.09	2.15	2.22	2.11	2.16	2.22	2.29
		AMPS	7.1	7.2	7.4	7.6	7.5	7.7	7.9	8.1	8.0	8.2	8.4	8.7	8.5	8.7	8.9	9.2	8.9	9.1	9.4	9.7	9.4	9.6	9.8	10.2
		HI PR	138	149	157	164	155	167	176	184	176	190	200	209	201	216	228	238	226	243	256	268	249	268	283	296
	LO PR	61	65	71	76	65	69	75	80	67	71	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

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHD24C02*

COOLING PERFORMANCE DATA

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	960	MBh	24.0	24.5	26.2	28.0	23.4	23.9	25.6	27.3	22.9	23.4	25.0	26.7	22.3	22.8	24.4	26.0	21.2	21.7	23.1	24.7	19.6	20.1	21.4	22.9
		S/T	0.90	0.84	0.69	0.51	0.93	0.87	0.71	0.53	0.95	0.89	0.73	0.54	0.99	0.92	0.75	0.56	1.00	0.96	0.78	0.58	1.00	0.97	0.79	0.59
		Delta T	21	20	17	14	21	20	17	14	21	20	17	14	21	20	18	14	20	20	17	14	19	19	16	13
		KW	1.71	1.74	1.79	1.85	1.83	1.87	1.92	1.98	1.93	1.97	2.03	2.09	2.03	2.07	2.13	2.20	2.11	2.15	2.22	2.29	2.17	2.22	2.29	2.36
		AMPS	7.3	7.4	7.6	7.8	7.7	7.9	8.1	8.3	8.3	8.4	8.7	8.9	8.7	8.9	9.1	9.4	9.2	9.4	9.6	10.0	9.6	9.8	10.1	10.5
		HI PR	143	154	163	170	161	173	183	191	183	197	208	217	208	224	237	247	234	252	266	278	259	279	294	307
		LO PR	64	68	74	79	67	71	78	83	70	74	81	86	73	78	85	91	77	82	89	95	79	84	92	98
	860	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	0.86	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	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	1.70	1.73	1.78	1.84	1.82	1.86	1.91	1.97	1.92	1.96	2.02	2.08	2.02	2.06	2.12	2.19	2.10	2.14	2.20	2.27	2.16	2.21	2.28	2.35
		AMPS	7.2	7.4	7.6	7.8	7.7	7.8	8.0	8.3	8.2	8.4	8.6	8.9	8.7	8.9	9.1	9.4	9.1	9.3	9.6	9.9	9.6	9.8	10.1	10.4
		HI PR	142	153	162	169	160	172	181	189	182	195	206	215	207	223	235	245	233	250	264	276	257	277	292	305
		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
	760	MBh	22.5	22.9	24.5	26.2	21.9	22.4	23.9	25.6	21.4	21.9	23.4	25.0	20.9	21.3	22.8	24.4	19.8	20.3	21.7	23.2	18.4	18.8	20.1	21.4
		S/T	0.82	0.77	0.63	0.47	0.85	0.80	0.65	0.49	0.88	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.95	0.89	0.72	0.54
		Delta T	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	20	18	14
		KW	1.68	1.71	1.76	1.81	1.79	1.83	1.88	1.94	1.90	1.93	1.99	2.05	1.99	2.03	2.09	2.15	2.06	2.10	2.17	2.24	2.13	2.17	2.24	2.31
		AMPS	7.1	7.3	7.4	7.7	7.6	7.7	7.9	8.2	8.1	8.3	8.5	8.7	8.5	8.7	9.0	9.2	9.0	9.2	9.4	9.7	9.4	9.6	9.9	10.2
		HI PR	139	150	158	165	156	168	178	185	178	191	202	211	203	218	230	240	228	245	259	270	252	271	286	299
		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	96

85	960	MBh	24.4	24.9	26.1	27.8	23.8	24.3	25.5	27.2	23.3	23.7	24.8	26.5	22.7	23.1	24.2	25.9	21.6	22.0	23.0	24.6	20.0	20.4	21.3	22.8
		S/T	0.94	0.91	0.82	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.94	0.76
		Delta T	22	22	20	18	22	22	21	18	22	22	21	18	22	22	21	18	21	21	21	18	19	20	19	17
		KW	1.72	1.76	1.81	1.86	1.84	1.88	1.93	1.99	1.95	1.99	2.05	2.11	2.04	2.08	2.15	2.21	2.12	2.17	2.23	2.30	2.19	2.24	2.31	2.38
		AMPS	7.3	7.5	7.6	7.9	7.8	7.9	8.1	8.4	8.3	8.5	8.7	9.0	8.8	9.0	9.2	9.5	9.3	9.5	9.7	10.0	9.7	9.9	10.2	10.5
		HI PR	145	156	164	172	162	175	185	192	185	199	210	219	210	226	239	249	237	255	269	280	261	281	297	310
		LO PR	64	68	75	79	68	72	79	84	70	75	82	87	74	79	86	92	78	83	90	96	80	85	93	99
	860	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	0.90	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	23	23	22	19	23	23	22	19	23	23	22	19	24	23	22	19	23	23	22	19	21	21	20	18
		KW	1.71	1.75	1.80	1.85	1.83	1.87	1.92	1.98	1.94	1.98	2.04	2.10	2.03	2.07	2.14	2.20	2.11	2.15	2.22	2.29	2.18	2.22	2.29	2.37
		AMPS	7.3	7.4	7.6	7.8	7.7	7.9	8.1	8.3	8.3	8.4	8.7	8.9	8.7	8.9	9.2	9.5	9.2	9.4	9.7	10.0	9.7	9.9	10.2	10.5
		HI PR	144	155	163	170	161	174	183	191	183	197	208	217	209	225	237	248	235	253	267	279	260	279	295	308
		LO PR	64	68	74	79	67	72	78	83	70	74	81	87	73	78	85	91	77	82	89	95	80	85	93	99
	760	MBh	22.8	23.3	24.4	26.0	22.3	22.7	23.8	25.4	21.8	22.2	23.3	24.8	21.2	21.7	22.7	24.2	20.2	20.6	21.6	23.0	18.7	19.1	20.0	21.3
		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	24	23	22	19	24	24	22	19	24	24	22	19	24	24	23	20	24	24	22	19	22	22	21	18
		KW	1.69	1.72	1.77	1.82	1.81	1.84	1.90	1.95	1.91	1.95	2.01	2.07	2.00	2.04	2.10	2.17	2.08	2.12	2.19	2.25	2.15	2.19	2.26	2.33
		AMPS	7.2	7.3	7.5	7.7	7.6	7.8	8.0	8.2	8.2	8.3	8.5	8.8	8.6	8.8	9.0	9.3	9.1	9.3	9.5	9.8	9.5	9.7	10.0	10.3
		HI PR	141	152	160	167	158	170	180	187	180	193	204	213	205	220	233	243	230	248	262	273	254	274	289	302
		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

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHD30C02*

COOLING PERFORMANCE DATA

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	1080	MBh	28.4	29.4	32.2	-	27.7	28.7	31.5	-	27.1	28.1	30.7	-	26.4	27.4	30.0	-	25.1	26.0	28.5	-	23.2	24.1	26.4	-
		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	0.68	0.47	-	0.82	0.68	0.47	-
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	18	15	12	-	17	15	11	-	16	14	11	-
		KW	2.20	2.24	2.31	-	2.36	2.41	2.48	-	2.50	2.56	2.64	-	2.63	2.69	2.77	-	2.74	2.79	2.88	-	2.83	2.89	2.98	-
		AMPS	9.5	9.7	10.0	-	10.2	10.4	10.7	-	10.9	11.1	11.5	-	11.6	11.8	12.2	-	12.2	12.5	12.8	-	12.9	13.1	13.5	-
		HI PR	148	159	168	-	166	179	189	-	189	203	215	-	215	232	245	-	242	261	275	-	268	288	304	-
		LO PR	63	67	74	-	67	71	78	-	70	74	81	-	73	78	85	-	77	81	89	-	79	84	92	-
	980	MBh	28.0	29.0	31.8	-	27.3	28.3	31.0	-	26.7	27.6	30.3	-	26.0	27.0	29.5	-	24.7	25.6	28.1	-	22.9	23.7	26.0	-
		S/T	0.68	0.57	0.39	-	0.70	0.59	0.41	-	0.72	0.60	0.42	-	0.75	0.62	0.43	-	0.77	0.65	0.45	-	0.78	0.65	0.45	-
		Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	2.19	2.23	2.30	-	2.35	2.40	2.47	-	2.49	2.54	2.62	-	2.61	2.67	2.75	-	2.72	2.78	2.87	-	2.81	2.87	2.97	-
		AMPS	9.5	9.7	9.9	-	10.1	10.3	10.6	-	10.9	11.1	11.4	-	11.5	11.7	12.1	-	12.1	12.4	12.8	-	12.8	13.1	13.5	-
		HI PR	147	158	167	-	165	178	188	-	188	202	213	-	214	230	243	-	241	259	273	-	266	286	302	-
		LO PR	63	67	73	-	66	71	77	-	69	73	80	-	73	77	84	-	76	81	88	-	79	84	91	-
	880	MBh	26.6	27.5	30.2	-	26.0	26.9	29.5	-	25.3	26.3	28.8	-	24.7	25.6	28.1	-	23.5	24.3	26.7	-	21.8	22.5	24.7	-
		S/T	0.65	0.54	0.38	-	0.68	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	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	2.15	2.20	2.26	-	2.31	2.36	2.43	-	2.45	2.50	2.58	-	2.57	2.63	2.71	-	2.68	2.73	2.82	-	2.77	2.83	2.92	-
		AMPS	9.3	9.5	9.8	-	10.0	10.2	10.4	-	10.7	10.9	11.2	-	11.3	11.6	11.9	-	12.0	12.2	12.6	-	12.6	12.8	13.2	-
		HI PR	144	155	164	-	162	174	184	-	184	198	209	-	210	226	238	-	236	254	268	-	261	280	296	-
		LO PR	62	66	72	-	65	69	76	-	68	72	79	-	71	76	83	-	75	79	87	-	77	82	90	-

75	1080	MBh	28.9	29.7	32.2	34.5	28.2	29.0	31.4	33.7	27.5	28.3	30.7	32.9	26.9	27.7	29.9	32.1	25.5	26.3	28.4	30.5	23.6	24.3	26.3	28.3
		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	20	18	15	10	20	18	15	10	20	19	15	10	20	19	15	11	20	18	15	10	19	17	14	10
		KW	2.22	2.26	2.33	2.40	2.38	2.43	2.50	2.58	2.52	2.58	2.66	2.74	2.65	2.71	2.79	2.88	2.76	2.82	2.91	3.00	2.85	2.91	3.01	3.11
		AMPS	9.6	9.8	10.1	10.4	10.2	10.5	10.8	11.1	11.0	11.2	11.6	11.9	11.7	11.9	12.3	12.7	12.3	12.6	13.0	13.4	13.0	13.2	13.6	14.1
		HI PR	150	161	170	177	168	181	191	199	191	206	217	226	218	234	247	258	245	263	278	290	270	291	307	321
		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
	980	MBh	28.4	29.3	31.7	34.0	27.8	28.6	31.0	33.2	27.1	27.9	30.2	32.4	26.5	27.2	29.5	31.6	25.1	25.9	28.0	30.1	23.3	24.0	25.9	27.9
		S/T	0.77	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.82	0.73	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.79	0.60	0.38	0.89	0.79	0.60	0.39
		Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
		KW	2.20	2.25	2.32	2.39	2.37	2.42	2.49	2.57	2.51	2.56	2.64	2.73	2.64	2.69	2.78	2.87	2.74	2.80	2.89	2.99	2.84	2.90	2.99	3.09
		AMPS	9.5	9.7	10.0	10.3	10.2	10.4	10.7	11.0	10.9	11.2	11.5	11.9	11.6	11.8	12.2	12.6	12.2	12.5	12.9	13.3	12.9	13.2	13.6	14.0
		HI PR	149	160	169	176	167	179	190	198	190	204	216	225	216	233	246	256	243	262	276	288	269	289	305	318
		LO PR	64	68	74	79	67	71	78	83	70	74	81	86	73	78	85	91	77	82	89	95	79	85	92	98
	880	MBh	27.0	27.8	30.1	32.3	26.4	27.2	29.4	31.6	25.8	26.5	28.7	30.8	25.1	25.9	28.0	30.1	23.9	24.6	26.6	28.6	22.1	22.8	24.7	26.5
		S/T	0.74	0.66	0.50	0.32	0.77	0.69	0.52	0.33	0.79	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.85	0.76	0.58	0.37
		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
		KW	2.17	2.21	2.28	2.35	2.33	2.38	2.45	2.53	2.47	2.52	2.60	2.68	2.59	2.65	2.73	2.82	2.70	2.76	2.84	2.94	2.79	2.85	2.94	3.04
		AMPS	9.4	9.6	9.9	10.2	10.0	10.2	10.5	10.9	10.8	11.0	11.3	11.7	11.4	11.7	12.0	12.4	12.0	12.3	12.7	13.1	12.7	13.0	13.3	13.8
		HI PR	146	157	166	173	163	176	186	194	186	200	211	220	212	228	241	251	238	256	271	282	263	283	299	312
		LO PR	62	66	72	77	66	70	76	81	68	73	79	85	72	76	83	89	75	80	87	93	78	83	90	96

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHD30C02*

COOLING PERFORMANCE DATA

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	1080	MBh	29.4	30.0	32.1	34.3	28.7	29.3	31.3	33.5	28.0	28.6	30.6	32.7	27.3	27.9	29.8	31.9	26.0	26.5	28.3	30.3	24.1	24.6	26.3	28.1
		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	0.55	1.00	0.95	0.77	0.58	1.00	0.95	0.78	0.58
		Delta T	22	21	18	15	22	21	19	15	22	22	19	15	23	22	19	15	22	21	19	15	20	20	17	14
		KW	2.23	2.28	2.35	2.42	2.40	2.45	2.52	2.60	2.54	2.60	2.68	2.76	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	9.7	9.9	10.1	10.5	10.3	10.5	10.8	11.2	11.1	11.3	11.7	12.0	11.8	12.0	12.4	12.8	12.4	12.7	13.1	13.5	13.1	13.4	13.8	14.2
		HI PR	151	163	172	179	170	183	193	201	193	208	219	229	220	236	250	260	247	266	281	293	273	294	310	324
		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
	980	MBh	29.0	29.6	31.6	33.8	28.3	28.9	30.9	33.0	27.6	28.2	30.1	32.2	26.9	27.5	29.4	31.4	25.6	26.1	27.9	29.9	23.7	24.2	25.9	27.7
		S/T	0.85	0.80	0.65	0.48	0.88	0.82	0.67	0.50	0.90	0.85	0.69	0.51	0.93	0.87	0.71	0.53	0.97	0.91	0.74	0.55	0.97	0.91	0.74	0.56
		Delta T	23	22	19	15	23	22	19	16	23	22	19	16	23	23	20	16	23	22	19	15	22	21	18	14
		KW	2.22	2.27	2.33	2.41	2.38	2.43	2.51	2.59	2.53	2.58	2.66	2.75	2.66	2.71	2.80	2.89	2.77	2.83	2.92	3.01	2.86	2.92	3.02	3.12
		AMPS	9.6	9.8	10.1	10.4	10.3	10.5	10.8	11.1	11.0	11.3	11.6	12.0	11.7	11.9	12.3	12.7	12.3	12.6	13.0	13.4	13.0	13.3	13.7	14.1
		HI PR	150	162	171	178	168	181	191	200	192	206	218	227	218	235	248	259	246	264	279	291	271	292	308	322
		LO PR	64	68	75	79	68	72	79	84	70	75	82	87	74	79	86	92	78	83	90	96	80	85	93	99
	880	MBh	27.5	28.1	30.0	32.1	26.9	27.4	29.3	31.4	26.2	26.8	28.6	30.6	25.6	26.1	27.9	29.9	24.3	24.8	26.5	28.4	22.5	23.0	24.6	26.3
		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	0.84	0.68	0.51	0.92	0.87	0.71	0.53	0.93	0.87	0.71	0.53
		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
		KW	2.19	2.23	2.30	2.37	2.35	2.40	2.47	2.55	2.49	2.54	2.62	2.70	2.61	2.67	2.75	2.84	2.72	2.78	2.87	2.96	2.81	2.87	2.97	3.06
		AMPS	9.5	9.7	9.9	10.2	10.1	10.3	10.6	11.0	10.9	11.1	11.4	11.8	11.5	11.7	12.1	12.5	12.1	12.4	12.8	13.2	12.8	13.1	13.5	13.9
		HI PR	147	158	167	174	165	178	188	196	188	202	213	223	214	230	243	253	241	259	273	285	266	286	302	315
		LO PR	63	67	73	78	66	71	77	82	69	73	80	85	73	77	84	90	76	81	88	94	79	84	91	97

85	1080	MBh	29.9	30.5	31.9	34.1	29.2	29.8	31.2	33.3	28.5	29.1	30.4	32.5	27.8	28.4	29.7	31.7	26.4	26.9	28.2	30.1	24.5	24.9	26.1	27.9
		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	24	23	22	19	24	24	22	19	24	24	22	19	24	24	22	19	22	23	22	19	21	21	21	18
		KW	2.25	2.30	2.37	2.44	2.42	2.47	2.54	2.62	2.56	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	9.7	9.9	10.2	10.5	10.4	10.6	10.9	11.3	11.2	11.4	11.7	12.1	11.9	12.1	12.5	12.9	12.5	12.8	13.2	13.6	13.2	13.5	13.9	14.3
		HI PR	153	164	174	181	171	184	195	203	195	210	221	231	222	239	252	263	250	269	284	296	276	297	314	327
		LO PR	65	69	76	81	69	73	80	85	72	76	83	89	75	80	87	93	79	84	92	98	82	87	95	101
	980	MBh	29.5	30.0	31.4	33.5	28.8	29.3	30.7	32.8	28.1	28.6	30.0	32.0	27.4	27.9	29.3	31.2	26.0	26.5	27.8	29.6	24.1	24.6	25.7	27.5
		S/T	0.89	0.86	0.77	0.63	0.92	0.89	0.80	0.65	0.94	0.91	0.82	0.67	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	0.98	0.89	0.72
		Delta T	25	24	23	20	25	24	23	20	25	24	23	20	25	25	23	20	24	24	23	20	23	23	21	19
		KW	2.24	2.28	2.35	2.43	2.40	2.45	2.53	2.61	2.55	2.60	2.69	2.77	2.68	2.74	2.82	2.91	2.79	2.85	2.94	3.04	2.88	2.95	3.04	3.14
		AMPS	9.7	9.9	10.2	10.5	10.4	10.6	10.9	11.2	11.1	11.4	11.7	12.1	11.8	12.0	12.4	12.8	12.4	12.7	13.1	13.5	13.1	13.4	13.8	14.3
		HI PR	152	163	172	180	170	183	193	202	194	208	220	229	220	237	250	261	248	267	282	294	274	295	311	325
		LO PR	65	69	75	80	69	73	80	85	71	76	83	88	75	80	87	93	78	83	91	97	81	86	94	100
	880	MBh	28.0	28.5	29.9	31.9	27.3	27.9	29.2	31.1	26.7	27.2	28.5	30.4	26.0	26.5	27.8	29.6	24.7	25.2	26.4	28.2	22.9	23.4	24.5	26.1
		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	0.94	0.84	0.68	0.98	0.94	0.85	0.69
		Delta T	25	24	23	20	25	25	23	20	25	25	23	20	25	25	24	20	25	25	23	20	23	23	22	19
		KW	2.20	2.25	2.32	2.39	2.37	2.41	2.49	2.57	2.51	2.56	2.64	2.73	2.64	2.69	2.78	2.87	2.74	2.80	2.89	2.99	2.84	2.90	2.99	3.09
		AMPS	9.5	9.7	10.0	10.3	10.2	10.4	10.7	11.0	10.9	11.2	11.5	11.9	11.6	11.8	12.2	12.6	12.2	12.5	12.9	13.3	12.9	13.2	13.6	14.0
		HI PR	149	160	169	176	167	179	190	198	190	204	216	225	216	232	245	256	243	262	276	288	269	289	305	318
		LO PR	64	68	74	79	67	71	78	83	70	74	81	86	73	78	85	91	77	82	89	95	79	85	92	98

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHD36C02*

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	1270	MBh	32.7	33.9	37.1	-	31.9	33.1	36.2	-	31.2	32.3	35.4	-	30.4	31.5	34.5	-	28.9	29.9	32.8	-	26.7	27.7	30.4	-
		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	17	14	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	14	11	-	16	14	10	-
		KW	2.55	2.60	2.68	-	2.74	2.80	2.88	-	2.90	2.97	3.06	-	3.05	3.12	3.21	-	3.18	3.24	3.35	-	3.28	3.35	3.46	-
		AMPS	11.3	11.6	11.9	-	12.1	12.4	12.7	-	13.0	13.3	13.7	-	13.8	14.1	14.5	-	14.6	14.9	15.3	-	15.3	15.7	16.1	-
		HI PR	157	169	179	-	176	190	200	-	200	216	228	-	228	246	259	-	257	276	292	-	284	305	323	-
		LO PR	62	66	72	-	66	70	76	-	68	73	79	-	72	76	83	-	75	80	87	-	78	83	90	-
	1170	MBh	32.3	33.5	36.7	-	31.6	32.7	35.9	-	30.8	32.0	35.0	-	30.1	31.2	34.2	-	28.6	29.6	32.5	-	26.5	27.4	30.1	-
		S/T	0.69	0.58	0.40	-	0.71	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.79	0.66	0.46	-
		Delta T	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-
		KW	2.54	2.60	2.67	-	2.73	2.79	2.87	-	2.90	2.96	3.05	-	3.04	3.11	3.21	-	3.17	3.24	3.34	-	3.27	3.35	3.45	-
		AMPS	11.3	11.5	11.9	-	12.1	12.3	12.7	-	13.0	13.3	13.6	-	13.8	14.0	14.5	-	14.5	14.8	15.3	-	15.3	15.6	16.1	-
		HI PR	157	169	178	-	176	189	200	-	200	215	227	-	228	245	259	-	256	276	291	-	283	305	322	-
		LO PR	62	66	72	-	65	70	76	-	68	72	79	-	71	76	83	-	75	80	87	-	77	82	90	-
	1070	MBh	31.9	33.0	36.2	-	31.1	32.3	35.3	-	30.4	31.5	34.5	-	29.6	30.7	33.7	-	28.2	29.2	32.0	-	26.1	27.0	29.6	-
		S/T	0.67	0.56	0.38	-	0.69	0.58	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.76	0.64	0.44	-
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
		KW	2.51	2.56	2.64	-	2.70	2.75	2.84	-	2.86	2.92	3.01	-	3.00	3.07	3.16	-	3.12	3.19	3.29	-	3.23	3.30	3.41	-
		AMPS	11.2	11.4	11.7	-	11.9	12.2	12.5	-	12.8	13.1	13.5	-	13.6	13.9	14.3	-	14.3	14.6	15.1	-	15.1	15.4	15.9	-
		HI PR	154	166	175	-	173	186	196	-	196	211	223	-	224	241	254	-	252	271	286	-	278	299	316	-
		LO PR	61	65	71	-	64	68	75	-	67	71	78	-	70	75	81	-	74	78	85	-	76	81	88	-

75	1270	MBh	33.2	34.2	37.0	39.7	32.5	33.4	36.2	38.8	31.7	32.6	35.3	37.9	30.9	31.8	34.4	37.0	29.4	30.2	32.7	35.1	27.2	28.0	30.3	32.5
		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	19	18	15	10	19	18	15	10	19	18	15	10	20	18	15	10	19	18	15	10	18	17	14	9
		KW	2.57	2.62	2.70	2.79	2.76	2.82	2.90	3.00	2.93	2.99	3.08	3.18	3.08	3.14	3.24	3.35	3.20	3.27	3.38	3.49	3.31	3.38	3.49	3.61
		AMPS	11.4	11.7	12.0	12.4	12.2	12.5	12.8	13.2	13.1	13.4	13.8	14.2	13.9	14.2	14.6	15.1	14.7	15.0	15.4	16.0	15.5	15.8	16.3	16.8
		HI PR	159	171	180	188	178	192	202	211	203	218	230	240	231	248	262	273	260	279	295	308	287	309	326	340
		LO PR	63	67	73	78	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97
	1170	MBh	32.9	33.9	36.7	39.3	32.1	33.1	35.8	38.4	31.4	32.3	35.0	37.5	30.6	31.5	34.1	36.6	29.1	29.9	32.4	34.8	26.9	27.7	30.0	32.2
		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	20	19	15	11	21	19	15	11	21	19	15	11	21	19	16	11	20	19	15	11	19	18	14	10
		KW	2.56	2.62	2.70	2.78	2.75	2.81	2.90	2.99	2.92	2.98	3.08	3.17	3.07	3.13	3.23	3.34	3.19	3.26	3.37	3.48	3.30	3.37	3.48	3.60
		AMPS	11.4	11.6	12.0	12.3	12.2	12.4	12.8	13.2	13.1	13.4	13.7	14.2	13.9	14.2	14.6	15.1	14.6	15.0	15.4	15.9	15.4	15.8	16.2	16.8
		HI PR	158	170	180	188	178	191	202	210	202	217	229	239	230	248	261	273	259	278	294	307	286	308	325	339
		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
	1070	MBh	32.4	33.4	36.1	38.8	31.6	32.6	35.3	37.9	30.9	31.8	34.4	37.0	30.1	31.0	33.6	36.1	28.6	29.5	31.9	34.2	26.5	27.3	29.6	31.7
		S/T	0.76	0.68	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.87	0.78	0.59	0.38
		Delta T	21	19	16	11	21	20	16	11	21	20	16	11	21	20	16	11	21	20	16	11	20	18	15	10
		KW	2.53	2.58	2.66	2.74	2.72	2.77	2.86	2.95	2.88	2.94	3.03	3.13	3.03	3.09	3.19	3.29	3.15	3.22	3.32	3.43	3.26	3.33	3.43	3.55
		AMPS	11.3	11.5	11.8	12.2	12.0	12.3	12.6	13.0	12.9	13.2	13.6	14.0	13.7	14.0	14.4	14.9	14.4	14.8	15.2	15.7	15.2	15.5	16.0	16.5
		HI PR	156	167	177	184	175	188	198	207	199	214	226	235	226	243	257	268	254	274	289	301	281	302	319	333
		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

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHD36C02*

COOLING PERFORMANCE DATA

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	1270	MBh	33.8	34.6	36.9	39.5	33.0	33.7	36.1	38.5	32.2	32.9	35.2	37.6	31.5	32.1	34.3	36.7	29.9	30.5	32.6	34.9	27.7	28.3	30.2	32.3
		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	21	21	18	14	22	21	18	14	22	21	18	14	22	21	18	15	22	21	18	14	20	19	17	13
		KW	2.59	2.64	2.72	2.81	2.78	2.84	2.93	3.02	2.95	3.01	3.11	3.21	3.10	3.17	3.27	3.37	3.23	3.30	3.40	3.52	3.34	3.41	3.52	3.64
		AMPS	11.5	11.7	12.1	12.5	12.3	12.6	12.9	13.3	13.2	13.5	13.9	14.4	14.0	14.3	14.7	15.2	14.8	15.1	15.6	16.1	15.6	15.9	16.4	17.0
		HI PR	160	173	182	190	180	194	204	213	205	220	232	242	233	251	265	276	262	282	298	311	290	312	329	343
	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	
	1170	MBh	33.5	34.2	36.6	39.1	32.7	33.4	35.7	38.2	31.9	32.6	34.9	37.3	31.1	31.8	34.0	36.3	29.6	30.2	32.3	34.5	27.4	28.0	29.9	32.0
		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	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	2.58	2.64	2.72	2.80	2.78	2.83	2.92	3.01	2.94	3.01	3.10	3.20	3.09	3.16	3.26	3.37	3.22	3.29	3.40	3.51	3.33	3.40	3.51	3.63
		AMPS	11.5	11.7	12.0	12.4	12.3	12.5	12.9	13.3	13.2	13.5	13.9	14.3	14.0	14.3	14.7	15.2	14.8	15.1	15.5	16.1	15.5	15.9	16.4	16.9
		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	63	67	73	78	67	71	77	83	69	74	81	86	73	77	85	90	76	81	89	94	79	84	92	98	
	1070	MBh	33.0	33.7	36.0	38.5	32.2	32.9	35.2	37.6	31.4	32.1	34.3	36.7	30.7	31.3	33.5	35.8	29.1	29.8	31.8	34.0	27.0	27.6	29.5	31.5
		S/T	0.83	0.78	0.63	0.47	0.86	0.81	0.66	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.89	0.72	0.54	0.95	0.89	0.73	0.54
		Delta T	23	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15
		KW	2.55	2.60	2.68	2.76	2.74	2.80	2.88	2.97	2.90	2.97	3.06	3.16	3.05	3.12	3.21	3.32	3.18	3.24	3.35	3.46	3.28	3.35	3.46	3.58
		AMPS	11.3	11.6	11.9	12.3	12.1	12.4	12.7	13.1	13.0	13.3	13.7	14.1	13.8	14.1	14.5	15.0	14.6	14.9	15.3	15.8	15.3	15.7	16.1	16.7
		HI PR	157	169	179	186	176	190	200	209	201	216	228	238	228	246	260	271	257	276	292	305	284	305	323	336
	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	1270	MBh	34.4	35.1	36.7	39.2	33.6	34.3	35.9	38.3	32.8	33.4	35.0	37.4	32.0	32.6	34.2	36.5	30.4	31.0	32.5	34.6	28.2	28.7	30.1	32.1
		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	0.75
		Delta T	23	23	21	18	23	23	22	19	23	23	22	19	23	23	22	19	22	22	21	19	20	21	20	17
		KW	2.61	2.66	2.74	2.83	2.80	2.86	2.95	3.04	2.97	3.04	3.13	3.23	3.13	3.19	3.29	3.40	3.25	3.32	3.43	3.54	3.36	3.44	3.55	3.67
		AMPS	11.6	11.8	12.2	12.6	12.4	12.7	13.0	13.4	13.3	13.6	14.0	14.5	14.1	14.4	14.9	15.4	14.9	15.3	15.7	16.2	15.7	16.1	16.5	17.1
		HI PR	162	174	184	192	182	196	206	215	207	222	235	245	235	253	267	279	265	285	301	314	293	315	332	347
	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	
	1170	MBh	34.1	34.7	36.4	38.8	33.3	33.9	35.5	37.9	32.5	33.1	34.7	37.0	31.7	32.3	33.8	36.1	30.1	30.7	32.1	34.3	27.9	28.4	29.8	31.8
		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	24	24	22	19	24	24	23	20	24	24	23	20	25	24	23	20	24	24	23	20	22	22	21	18
		KW	2.60	2.66	2.74	2.82	2.80	2.86	2.94	3.04	2.97	3.03	3.13	3.23	3.12	3.18	3.29	3.39	3.25	3.32	3.42	3.54	3.36	3.43	3.54	3.66
		AMPS	11.6	11.8	12.1	12.5	12.4	12.6	13.0	13.4	13.3	13.6	14.0	14.4	14.1	14.4	14.8	15.3	14.9	15.2	15.7	16.2	15.7	16.0	16.5	17.1
		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	64	68	74	79	67	72	78	83	70	75	81	87	74	78	85	91	77	82	90	95	80	85	93	99	
	1070	MBh	33.6	34.2	35.8	38.2	32.8	33.4	35.0	37.3	32.0	32.6	34.2	36.4	31.2	31.8	33.3	35.6	29.7	30.2	31.7	33.8	27.5	28.0	29.3	31.3
		S/T	0.87	0.84	0.76	0.61	0.90	0.87	0.78	0.64	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.99	0.96	0.86	0.70	1.00	0.96	0.87	0.71
		Delta T	25	25	23	20	25	25	24	20	25	25	24	20	26	25	24	21	25	25	23	20	24	23	22	19
		KW	2.57	2.62	2.70	2.79	2.76	2.82	2.90	3.00	2.93	2.99	3.08	3.18	3.08	3.14	3.24	3.35	3.20	3.27	3.38	3.49	3.31	3.38	3.49	3.61
		AMPS	11.4	11.7	12.0	12.4	12.2	12.5	12.8	13.2	13.1	13.4	13.8	14.2	13.9	14.2	14.6	15.1	14.7	15.0	15.4	16.0	15.5	15.8	16.3	16.8
		HI PR	159	171	180	188	178	192	202	211	203	218	230	240	231	248	262	273	259	279	295	308	287	309	326	340
	LO PR	63	67	73	78	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97	

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHD42C02*

COOLING PERFORMANCE DATA

			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	39.4	40.8	44.7	-	38.5	39.9	43.7	-	37.6	38.9	42.7	-	36.6	38.0	41.6	-	34.8	36.1	39.5	-	32.3	33.4	36.6	-
		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	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
		KW	2.97	3.04	3.14	-	3.22	3.29	3.40	-	3.43	3.51	3.63	-	3.62	3.70	3.83	-	3.78	3.87	4.00	-	3.92	4.01	4.15	-
		AMPS	12.9	13.2	13.6	-	13.9	14.2	14.7	-	15.0	15.4	15.9	-	16.0	16.4	16.9	-	17.0	17.4	18.0	-	18.0	18.4	19.0	-
		HI PR	165	178	188	-	186	200	211	-	211	227	240	-	240	259	273	-	271	291	307	-	299	322	340	-
		LO PR	58	62	68	-	62	66	72	-	64	68	74	-	67	72	78	-	71	75	82	-	73	78	85	-
	1250	MBh	39.0	40.4	44.3	-	38.1	39.5	43.3	-	37.2	38.5	42.2	-	36.3	37.6	41.2	-	34.5	35.7	39.1	-	31.9	33.1	36.3	-
		S/T	0.67	0.56	0.39	-	0.69	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	19	17	13	-	19	17	13	-	19	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-
		KW	2.97	3.03	3.13	-	3.21	3.28	3.39	-	3.42	3.50	3.62	-	3.61	3.69	3.82	-	3.77	3.86	3.99	-	3.91	4.00	4.14	-
		AMPS	12.9	13.1	13.6	-	13.8	14.2	14.6	-	15.0	15.3	15.8	-	16.0	16.4	16.9	-	17.0	17.4	17.9	-	18.0	18.4	19.0	-
		HI PR	165	178	187	-	185	199	210	-	210	227	239	-	240	258	272	-	270	290	306	-	298	321	339	-
		LO PR	58	62	68	-	61	65	71	-	64	68	74	-	67	71	78	-	70	75	82	-	73	77	84	-
	1150	MBh	38.4	39.8	43.6	-	37.5	38.9	42.6	-	36.6	38.0	41.6	-	35.7	37.0	40.6	-	34.0	35.2	38.6	-	31.5	32.6	35.7	-
		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	0.61	0.43	-	0.74	0.62	0.43	-
		Delta T	20	17	13	-	20	17	13	-	20	17	13	-	20	18	13	-	20	17	13	-	19	16	12	-
		KW	2.92	2.99	3.09	-	3.16	3.23	3.34	-	3.37	3.45	3.57	-	3.56	3.64	3.76	-	3.71	3.80	3.93	-	3.85	3.94	4.08	-
		AMPS	12.7	13.0	13.4	-	13.6	14.0	14.4	-	14.8	15.1	15.6	-	15.7	16.1	16.6	-	16.7	17.1	17.7	-	17.7	18.1	18.7	-
		HI PR	162	174	184	-	182	196	207	-	207	223	235	-	236	254	268	-	265	285	301	-	293	315	333	-
		LO PR	57	61	66	-	60	64	70	-	63	67	73	-	66	70	77	-	69	74	80	-	71	76	83	-

75	1350	MBh	40.1	41.3	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	36.5	39.5	42.3	32.8	33.8	36.6	39.2
		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	0.88	0.79	0.60	0.39	0.89	0.80	0.60	0.39
		Delta T	21	20	16	11	21	20	16	11	21	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10
		KW	3.00	3.07	3.17	3.28	3.24	3.32	3.43	3.55	3.46	3.54	3.66	3.79	3.65	3.74	3.87	4.00	3.81	3.90	4.04	4.18	3.95	4.05	4.19	4.34
		AMPS	13.0	13.3	13.7	14.2	14.0	14.3	14.8	15.3	15.2	15.5	16.0	16.6	16.2	16.6	17.1	17.7	17.2	17.6	18.2	18.8	18.2	18.6	19.2	19.9
		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	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	78	86	91
	1250	MBh	39.7	40.8	44.2	47.4	38.7	39.9	43.2	46.3	37.8	38.9	42.2	45.2	36.9	38.0	41.1	44.1	35.1	36.1	39.1	41.9	32.5	33.4	36.2	38.8
		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	22	20	17	12	23	21	17	12	23	21	17	12	23	21	17	12	22	21	17	12	21	19	16	11
		KW	2.99	3.06	3.16	3.27	3.24	3.31	3.42	3.54	3.45	3.53	3.65	3.78	3.64	3.73	3.86	3.99	3.80	3.89	4.03	4.17	3.94	4.04	4.18	4.33
		AMPS	13.0	13.3	13.7	14.2	14.0	14.3	14.7	15.3	15.1	15.5	16.0	16.6	16.1	16.5	17.0	17.7	17.1	17.5	18.1	18.8	18.1	18.6	19.2	19.9
		HI PR	167	179	189	197	187	201	212	222	213	229	242	252	242	261	275	287	272	293	310	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	82	88	73	78	85	91
	1150	MBh	39.1	40.2	43.5	46.7	38.2	39.3	42.5	45.6	37.3	38.4	41.5	44.6	36.3	37.4	40.5	43.5	34.5	35.6	38.5	41.3	32.0	32.9	35.6	38.3
		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	0.75	0.57	0.37
		Delta T	23	21	17	12	23	21	18	12	23	21	18	12	23	22	18	12	23	21	17	12	22	20	16	11
		KW	2.95	3.02	3.12	3.22	3.19	3.26	3.37	3.49	3.40	3.48	3.60	3.72	3.59	3.67	3.80	3.93	3.75	3.84	3.97	4.11	3.88	3.98	4.11	4.26
		AMPS	12.8	13.1	13.5	14.0	13.8	14.1	14.5	15.0	14.9	15.2	15.7	16.3	15.9	16.3	16.8	17.4	16.9	17.3	17.8	18.5	17.8	18.3	18.9	19.6
		HI PR	164	176	186	194	184	198	209	218	209	225	238	248	238	256	271	282	268	288	304	317	296	318	336	351
		LO PR	58	61	67	71	61	65	71	75	63	67	74	78	67	71	77	82	70	74	81	86	72	77	84	89

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHD42C02*

COOLING PERFORMANCE DATA

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	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	42.1	33.4	34.1	36.4	39.0
		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	22	21	19	15
		KW	3.03	3.09	3.20	3.31	3.27	3.35	3.46	3.58	3.49	3.57	3.69	3.82	3.68	3.77	3.90	4.04	3.85	3.94	4.08	4.22	3.99	4.08	4.23	4.38
		AMPS	13.1	13.4	13.8	14.3	14.1	14.5	14.9	15.5	15.3	15.7	16.2	16.8	16.3	16.7	17.2	17.9	17.3	17.7	18.3	19.0	18.3	18.8	19.4	20.1
		HI PR	169	182	192	200	189	204	215	225	215	232	245	255	245	264	279	291	276	297	314	327	305	328	347	361
	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	
	1250	MBh	40.4	41.3	44.1	47.1	39.4	40.3	43.1	46.0	38.5	39.3	42.0	44.9	37.6	38.4	41.0	43.8	35.7	36.5	39.0	41.6	33.0	33.8	36.1	38.6
		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	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	3.02	3.09	3.19	3.30	3.26	3.34	3.45	3.57	3.48	3.56	3.68	3.81	3.67	3.76	3.89	4.03	3.84	3.93	4.06	4.21	3.98	4.07	4.21	4.36
		AMPS	13.1	13.4	13.8	14.3	14.1	14.4	14.9	15.4	15.3	15.6	16.1	16.7	16.3	16.7	17.2	17.8	17.3	17.7	18.3	19.0	18.3	18.7	19.3	20.1
		HI PR	168	181	191	199	189	203	215	224	215	231	244	255	245	263	278	290	275	296	313	326	304	327	346	360
	LO PR	59	63	69	73	63	67	73	78	65	69	76	81	68	73	80	85	72	76	83	89	74	79	86	92	
	1150	MBh	39.8	40.6	43.4	46.4	38.8	39.7	42.4	45.3	37.9	38.7	41.4	44.3	37.0	37.8	40.4	43.2	35.1	35.9	38.4	41.0	32.6	33.3	35.5	38.0
		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	26	25	21	17	26	25	22	17	26	25	22	17	26	25	22	17	26	25	21	17	24	23	20	16
		KW	2.97	3.04	3.14	3.25	3.22	3.29	3.40	3.52	3.43	3.51	3.63	3.76	3.62	3.70	3.83	3.97	3.78	3.87	4.00	4.14	3.92	4.01	4.15	4.30
		AMPS	12.9	13.2	13.6	14.1	13.9	14.2	14.7	15.2	15.0	15.4	15.9	16.5	16.0	16.4	16.9	17.6	17.0	17.4	18.0	18.7	18.0	18.4	19.0	19.7
		HI PR	165	178	188	196	186	200	211	220	211	227	240	250	240	259	273	285	271	291	307	321	299	322	340	354
	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	

85	1350	MBh	41.5	42.3	44.3	47.3	40.5	41.3	43.3	46.2	39.6	40.3	42.2	45.1	38.6	39.3	41.2	44.0	36.7	37.4	39.1	41.8	34.0	34.6	36.3	38.7
		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	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	3.05	3.12	3.22	3.33	3.30	3.38	3.49	3.61	3.52	3.60	3.73	3.86	3.72	3.80	3.93	4.07	3.88	3.97	4.11	4.26	4.02	4.12	4.26	4.42
		AMPS	13.2	13.5	14.0	14.5	14.3	14.6	15.0	15.6	15.4	15.8	16.3	16.9	16.5	16.9	17.4	18.0	17.5	17.9	18.5	19.2	18.5	18.9	19.6	20.3
		HI PR	171	183	194	202	191	206	217	227	218	234	247	258	248	267	282	294	279	300	317	330	308	332	350	365
		LO PR	60	64	70	74	64	68	74	79	66	70	77	82	69	74	81	86	73	77	84	90	75	80	87	93
	1250	MBh	41.1	41.9	43.9	46.8	40.1	40.9	42.8	45.7	39.2	39.9	41.8	44.6	38.2	39.0	40.8	43.5	36.3	37.0	38.8	41.3	33.6	34.3	35.9	38.3
		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	0.70	1.00	0.97	0.88	0.71
		Delta T	26	26	25	21	27	26	25	22	27	26	25	22	27	27	25	22	27	26	25	21	25	24	23	20
		KW	3.04	3.11	3.22	3.33	3.29	3.37	3.48	3.60	3.51	3.59	3.72	3.85	3.71	3.79	3.92	4.06	3.87	3.96	4.10	4.25	4.01	4.11	4.25	4.40
		AMPS	13.2	13.5	13.9	14.4	14.2	14.5	15.0	15.5	15.4	15.8	16.3	16.9	16.4	16.8	17.4	18.0	17.4	17.9	18.4	19.1	18.5	18.9	19.5	20.2
		HI PR	170	183	193	201	191	205	217	226	217	233	247	257	247	266	281	293	278	299	316	329	307	331	349	364
	LO PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93	
	1150	MBh	40.5	41.2	43.2	46.1	39.5	40.3	42.2	45.0	38.6	39.3	41.2	43.9	37.6	38.4	40.2	42.9	35.8	36.4	38.2	40.7	33.1	33.8	35.4	37.7
		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	27	27	25	22	28	27	26	22	28	27	26	22	28	27	26	22	28	27	26	22	26	25	24	21
		KW	3.00	3.07	3.17	3.28	3.24	3.32	3.43	3.55	3.46	3.54	3.66	3.79	3.65	3.74	3.87	4.00	3.81	3.90	4.04	4.18	3.95	4.05	4.19	4.34
		AMPS	13.0	13.3	13.7	14.2	14.0	14.3	14.8	15.3	15.2	15.5	16.0	16.6	16.2	16.6	17.1	17.7	17.2	17.6	18.2	18.8	18.2	18.6	19.2	19.9
		HI PR	167	180	190	198	188	202	213	222	213	229	242	253	243	261	276	288	273	294	311	324	302	325	343	358
	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	

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHD48C02*

COOLING PERFORMANCE DATA

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	46.5	48.2	52.9	-	45.5	47.1	51.6	-	44.4	46.0	50.4	-	43.3	44.9	49.2	-	41.1	42.6	46.7	-	38.1	39.5	43.3	-
		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	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	15	13	10	-
		KW	3.67	3.74	3.86	-	3.94	4.03	4.15	-	4.19	4.28	4.41	-	4.40	4.50	4.64	-	4.58	4.68	4.84	-	4.74	4.84	5.00	-
		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	MBh	45.2	46.8	51.3	-	44.1	45.7	50.1	-	43.1	44.7	48.9	-	42.0	43.6	47.7	-	39.9	41.4	45.4	-	37.0	38.3	42.0	-
		S/T	0.64	0.54	0.37	-	0.67	0.56	0.38	-	0.68	0.57	0.39	-	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.74	0.62	0.43	-
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	18	15	12	-	17	15	11	-	16	14	11	-
		KW	3.64	3.72	3.83	-	3.91	4.00	4.12	-	4.15	4.24	4.38	-	4.37	4.46	4.60	-	4.55	4.64	4.80	-	4.70	4.80	4.96	-
		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	MBh	44.5	46.1	50.5	-	43.5	45.1	49.4	-	42.4	44.0	48.2	-	41.4	42.9	47.0	-	39.3	40.8	44.7	-	36.4	37.8	41.4	-
		S/T	0.62	0.52	0.36	-	0.64	0.54	0.37	-	0.66	0.55	0.38	-	0.68	0.57	0.39	-	0.70	0.59	0.41	-	0.71	0.59	0.41	-
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	3.59	3.67	3.78	-	3.86	3.94	4.06	-	4.10	4.18	4.32	-	4.31	4.40	4.54	-	4.48	4.58	4.73	-	4.64	4.74	4.89	-
		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	MBh	47.3	48.7	52.8	56.6	46.2	47.6	51.5	55.3	45.1	46.5	50.3	54.0	44.0	45.3	49.1	52.7	41.8	43.1	46.6	50.0	38.7	39.9	43.2	46.3
		S/T	0.76	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	0.59	0.38
		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
		KW	3.70	3.77	3.89	4.01	3.98	4.06	4.19	4.32	4.22	4.31	4.45	4.59	4.44	4.53	4.68	4.83	4.62	4.72	4.88	5.04	4.78	4.89	5.05	5.21
		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	MBh	46.0	47.3	51.2	55.0	44.9	46.2	50.0	53.7	43.8	45.1	48.8	52.4	42.8	44.0	47.6	51.1	40.6	41.8	45.3	48.6	37.6	38.7	41.9	45.0
		S/T	0.73	0.65	0.49	0.32	0.76	0.68	0.51	0.33	0.78	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.84	0.75	0.57	0.36
		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	3.67	3.74	3.86	3.98	3.94	4.03	4.15	4.29	4.19	4.28	4.41	4.56	4.40	4.50	4.64	4.79	4.58	4.68	4.84	5.00	4.74	4.84	5.00	5.17
		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	MBh	45.3	46.6	50.4	54.1	44.2	45.5	49.3	52.9	43.2	44.4	48.1	51.6	42.1	43.4	46.9	50.4	40.0	41.2	44.6	47.8	37.1	38.2	41.3	44.3
		S/T	0.70	0.63	0.48	0.31	0.73	0.65	0.49	0.32	0.75	0.67	0.51	0.33	0.77	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.81	0.72	0.55	0.35
		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
		KW	3.62	3.70	3.81	3.93	3.89	3.97	4.10	4.23	4.13	4.22	4.35	4.49	4.34	4.43	4.58	4.73	4.52	4.62	4.77	4.93	4.67	4.78	4.93	5.10
		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

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHD48C02*

COOLING PERFORMANCE DATA

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				
80	1800	MBh	48.2	49.2	52.6	56.2	47.1	48.1	51.4	54.9	45.9	46.9	50.1	53.6	44.8	45.8	48.9	52.3	42.6	43.5	46.5	49.7	39.4	40.3	43.1	46.0
		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	0.54	0.96	0.90	0.74	0.55
		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
		KW	3.73	3.80	3.92	4.05	4.01	4.09	4.22	4.36	4.25	4.35	4.49	4.63	4.47	4.57	4.72	4.87	4.66	4.76	4.92	5.08	4.82	4.93	5.09	5.26
		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	MBh	46.8	47.8	51.1	54.6	45.7	46.7	49.9	53.3	44.6	45.6	48.7	52.0	43.5	44.5	47.5	50.8	41.3	42.2	45.1	48.2	38.3	39.1	41.8	44.7
		S/T	0.80	0.75	0.61	0.46	0.83	0.78	0.63	0.47	0.85	0.80	0.65	0.49	0.88	0.82	0.67	0.50	0.91	0.85	0.70	0.52	0.92	0.86	0.70	0.52
		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
		KW	3.70	3.77	3.89	4.01	3.98	4.06	4.19	4.32	4.22	4.31	4.45	4.59	4.44	4.53	4.68	4.83	4.62	4.72	4.88	5.04	4.78	4.89	5.05	5.21
		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	MBh	46.1	47.1	50.3	53.8	45.0	46.0	49.1	52.5	43.9	44.9	48.0	51.3	42.9	43.8	46.8	50.0	40.7	41.6	44.4	47.5	37.7	38.5	41.2	44.0
		S/T	0.77	0.72	0.59	0.44	0.80	0.75	0.61	0.46	0.82	0.77	0.63	0.47	0.85	0.79	0.65	0.48	0.88	0.82	0.67	0.50	0.89	0.83	0.68	0.51
		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
		KW	3.65	3.72	3.84	3.96	3.92	4.00	4.13	4.26	4.16	4.25	4.39	4.53	4.38	4.47	4.61	4.77	4.56	4.66	4.81	4.97	4.71	4.82	4.97	5.14
		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

85	1800	MBh	49.0	50.0	52.3	55.8	47.9	48.8	51.1	54.5	46.7	47.6	49.9	53.2	45.6	46.5	48.7	51.9	43.3	44.2	46.2	49.3	40.1	40.9	42.8	45.7
		S/T	0.88	0.85	0.77	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	0.97	0.87	0.71	1.00	0.97	0.88	0.71
		Delta T	22	22	20	18	22	22	21	18	22	22	21	18	22	22	21	18	22	22	21	18	20	20	19	17
		KW	3.76	3.83	3.95	4.08	4.04	4.12	4.25	4.39	4.29	4.38	4.52	4.67	4.51	4.61	4.76	4.91	4.70	4.80	4.96	5.12	4.86	4.97	5.13	5.30
		AMPS	15.8	16.1	16.6	17.1	16.9	17.3	17.8	18.4	18.2	18.6	19.1	19.8	19.3	19.7	20.3	21.0	20.4	20.9	21.5	22.3	21.5	22.0	22.7	23.5
		HI PR	168	181	191	199	189	203	214	223	214	231	244	254	244	263	277	289	275	296	312	326	304	327	345	360
		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
	1550	MBh	47.6	48.5	50.8	54.2	46.5	47.4	49.6	52.9	45.4	46.3	48.4	51.7	44.3	45.1	47.3	50.4	42.1	42.9	44.9	47.9	39.0	39.7	41.6	44.4
		S/T	0.84	0.81	0.73	0.59	0.87	0.84	0.76	0.61	0.89	0.86	0.78	0.63	0.92	0.89	0.80	0.65	0.96	0.92	0.83	0.67	0.96	0.93	0.84	0.68
		Delta T	24	23	22	19	24	24	22	19	24	24	22	19	24	24	22	19	24	23	22	19	22	22	21	18
		KW	3.73	3.80	3.92	4.05	4.01	4.09	4.22	4.36	4.25	4.35	4.49	4.63	4.47	4.57	4.72	4.87	4.66	4.76	4.92	5.08	4.82	4.93	5.09	5.26
		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
	1400	MBh	46.9	47.8	50.0	53.4	45.8	46.7	48.9	52.1	44.7	45.6	47.7	50.9	43.6	44.4	46.6	49.7	41.4	42.2	44.2	47.2	38.4	39.1	41.0	43.7
		S/T	0.81	0.78	0.70	0.57	0.84	0.81	0.73	0.59	0.86	0.83	0.75	0.61	0.89	0.86	0.77	0.63	0.92	0.89	0.80	0.65	0.93	0.90	0.81	0.66
		Delta T	25	24	23	20	25	25	23	20	25	25	23	20	25	25	24	20	25	25	23	20	23	23	22	19
		KW	3.68	3.75	3.87	3.99	3.95	4.04	4.16	4.30	4.20	4.29	4.42	4.57	4.41	4.51	4.65	4.81	4.59	4.69	4.85	5.01	4.75	4.86	5.02	5.18
		AMPS	15.5	15.8	16.2	16.8	16.6	16.9	17.4	18.0	17.8	18.2	18.7	19.4	18.9	19.3	19.9	20.6	20.0	20.4	21.0	21.8	21.0	21.5	22.2	22.9
		HI PR	163	176	186	194	183	197	208	217	209	225	237	247	238	256	270	282	267	288	304	317	295	318	336	350
		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

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHD60C02* LOW STAGE

			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	40.4	41.8	45.8	-	39.4	40.9	44.8	-	38.5	39.9	43.7	-	37.5	38.9	42.6	-	35.7	37.0	40.5	-	33.0	34.2	37.5	-
		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	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
		KW	2.89	2.95	3.04	-	3.11	3.18	3.28	-	3.30	3.38	3.48	-	3.47	3.55	3.67	-	3.62	3.70	3.82	-	3.75	3.83	3.96	-
		AMPS	12.1	12.4	12.7	-	13.0	13.2	13.6	-	13.9	14.2	14.7	-	14.8	15.1	15.6	-	15.7	16.0	16.5	-	16.5	16.9	17.4	-
		HI PR	150	161	170	-	168	181	191	-	191	206	217	-	218	235	248	-	245	264	279	-	271	292	308	-
		LO PR	61	65	71	-	65	69	75	-	67	72	78	-	71	75	82	-	74	79	86	-	77	82	89	-
	1250	MBh	40.0	41.4	45.4	-	39.0	40.5	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	0.66	0.55	0.38	-	0.69	0.57	0.40	-	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.76	0.63	0.44	-
		Delta T	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-
		KW	2.88	2.94	3.03	-	3.10	3.17	3.27	-	3.30	3.37	3.48	-	3.47	3.54	3.66	-	3.61	3.69	3.81	-	3.74	3.82	3.95	-
		AMPS	12.1	12.3	12.7	-	12.9	13.2	13.6	-	13.9	14.2	14.6	-	14.8	15.1	15.5	-	15.6	16.0	16.4	-	16.5	16.8	17.3	-
		HI PR	150	161	170	-	168	181	191	-	191	205	217	-	217	234	247	-	244	263	278	-	270	291	307	-
		LO PR	61	65	71	-	65	69	75	-	67	71	78	-	71	75	82	-	74	79	86	-	76	81	89	-
	1150	MBh	39.4	40.8	44.7	-	38.4	39.8	43.7	-	37.5	38.9	42.6	-	36.6	37.9	41.6	-	34.8	36.1	39.5	-	32.2	33.4	36.6	-
		S/T	0.64	0.53	0.37	-	0.66	0.55	0.38	-	0.68	0.57	0.39	-	0.70	0.58	0.40	-	0.73	0.61	0.42	-	0.73	0.61	0.42	-
		Delta T	20	17	13	-	20	18	13	-	20	18	13	-	20	18	13	-	20	17	13	-	19	16	12	-
		KW	2.84	2.90	2.99	-	3.06	3.12	3.22	-	3.25	3.32	3.43	-	3.42	3.49	3.61	-	3.56	3.64	3.76	-	3.68	3.77	3.89	-
		AMPS	11.9	12.2	12.5	-	12.7	13.0	13.4	-	13.7	14.0	14.4	-	14.6	14.9	15.3	-	15.4	15.7	16.2	-	16.2	16.6	17.1	-
		HI PR	147	158	167	-	165	177	187	-	188	202	213	-	214	230	243	-	240	259	273	-	266	286	302	-
		LO PR	60	64	70	-	64	68	74	-	66	70	77	-	69	74	81	-	73	77	84	-	75	80	87	-

75	1350	MBh	41.0	42.3	45.7	49.1	40.1	41.3	44.7	47.9	39.1	40.3	43.6	46.8	38.2	39.3	42.5	45.7	36.3	37.3	40.4	43.4	33.6	34.6	37.4	40.2
		S/T	0.77	0.69	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	22	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	20	19	15	10
		KW	2.91	2.97	3.07	3.16	3.13	3.20	3.30	3.41	3.33	3.40	3.51	3.63	3.50	3.58	3.70	3.82	3.65	3.73	3.86	3.98	3.78	3.86	3.99	4.13
		AMPS	12.2	12.5	12.8	13.2	13.1	13.3	13.7	14.2	14.1	14.4	14.8	15.3	14.9	15.2	15.7	16.2	15.8	16.1	16.6	17.2	16.6	17.0	17.5	18.1
		HI PR	151	163	172	180	170	183	193	201	193	208	220	229	220	237	250	261	248	267	282	294	274	295	311	324
		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
	1250	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	43.0	33.3	34.2	37.1	39.8
		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	0.86	0.77	0.58	0.37	0.86	0.77	0.58	0.38
		Delta T	22	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	19	16	11
		KW	2.91	2.97	3.06	3.16	3.13	3.19	3.30	3.40	3.32	3.40	3.50	3.62	3.50	3.57	3.69	3.81	3.64	3.72	3.85	3.97	3.77	3.85	3.98	4.12
		AMPS	12.2	12.4	12.8	13.2	13.0	13.3	13.7	14.1	14.0	14.3	14.8	15.3	14.9	15.2	15.7	16.2	15.7	16.1	16.6	17.2	16.6	17.0	17.5	18.1
		HI PR	151	163	172	179	169	182	193	201	193	207	219	228	220	236	249	260	247	266	281	293	273	294	310	323
		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	96
	1150	MBh	40.0	41.2	44.6	47.9	39.1	40.3	43.6	46.8	38.2	39.3	42.5	45.6	37.2	38.3	41.5	44.5	35.4	36.4	39.4	42.3	32.8	33.7	36.5	39.2
		S/T	0.72	0.65	0.49	0.32	0.75	0.67	0.51	0.33	0.77	0.69	0.52	0.34	0.79	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.83	0.74	0.56	0.36
		Delta T	23	21	17	12	23	22	18	12	23	22	18	12	24	22	18	12	23	21	18	12	22	20	16	11
		KW	2.87	2.93	3.02	3.11	3.08	3.15	3.25	3.36	3.28	3.35	3.46	3.57	3.45	3.52	3.64	3.76	3.59	3.67	3.79	3.92	3.72	3.80	3.92	4.06
		AMPS	12.0	12.3	12.6	13.0	12.9	13.1	13.5	14.0	13.8	14.1	14.5	15.0	14.7	15.0	15.4	16.0	15.5	15.9	16.3	16.9	16.4	16.7	17.2	17.8
		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	61	65	71	75	64	68	75	79	67	71	77	82	70	75	81	87	73	78	85	91	76	81	88	94

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

PHD60C02* LOW STAGE

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHD60C02* LOW STAGE

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	41.8	42.7	45.6	48.7	40.8	41.7	44.5	47.6	39.8	40.7	43.5	46.5	38.9	39.7	42.4	45.3	36.9	37.7	40.3	43.1	34.2	34.9	37.3	39.9
		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	22	19	15
		KW	2.94	3.00	3.09	3.19	3.16	3.23	3.33	3.44	3.36	3.43	3.54	3.66	3.53	3.61	3.73	3.85	3.68	3.76	3.89	4.02	3.81	3.90	4.02	4.16
		AMPS	12.3	12.6	12.9	13.3	13.2	13.4	13.8	14.3	14.2	14.5	14.9	15.4	15.0	15.4	15.8	16.4	15.9	16.3	16.8	17.3	16.8	17.2	17.7	18.3
		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	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	80	88	94	78	83	91	97
	1250	MBh	41.4	42.3	45.2	48.3	40.4	41.3	44.1	47.1	39.4	40.3	43.1	46.0	38.5	39.3	42.0	44.9	36.5	37.3	39.9	42.7	33.9	34.6	37.0	39.5
		S/T	0.82	0.77	0.63	0.47	0.85	0.80	0.65	0.49	0.88	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.95	0.89	0.72	0.54
		Delta T	25	24	21	17	25	24	21	17	25	24	21	17	26	25	21	17	25	24	21	17	24	23	20	16
		KW	2.93	2.99	3.08	3.18	3.15	3.22	3.32	3.43	3.35	3.42	3.53	3.65	3.52	3.60	3.72	3.84	3.67	3.75	3.88	4.01	3.80	3.89	4.01	4.15
		AMPS	12.3	12.5	12.9	13.3	13.1	13.4	13.8	14.3	14.1	14.4	14.9	15.4	15.0	15.3	15.8	16.3	15.9	16.2	16.7	17.3	16.7	17.1	17.6	18.3
		HI PR	153	164	173	181	171	184	195	203	195	210	221	231	222	239	252	263	249	268	284	296	276	297	313	327
		LO PR	62	66	72	77	66	70	77	82	69	73	80	85	72	77	84	89	75	80	88	93	78	83	91	97
	1150	MBh	40.7	41.6	44.5	47.5	39.8	40.7	43.4	46.4	38.8	39.7	42.4	45.3	37.9	38.7	41.4	44.2	36.0	36.8	39.3	42.0	33.3	34.1	36.4	38.9
		S/T	0.79	0.75	0.61	0.45	0.82	0.77	0.63	0.47	0.84	0.79	0.64	0.48	0.87	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.91	0.86	0.70	0.52
		Delta T	26	25	22	17	26	25	22	17	26	25	22	17	26	25	22	18	26	25	22	17	24	23	20	16
		KW	2.89	2.95	3.04	3.14	3.11	3.18	3.28	3.38	3.30	3.38	3.48	3.60	3.48	3.55	3.67	3.79	3.62	3.70	3.82	3.95	3.75	3.83	3.96	4.09
		AMPS	12.1	12.4	12.7	13.1	13.0	13.2	13.6	14.1	13.9	14.2	14.7	15.2	14.8	15.1	15.6	16.1	15.7	16.0	16.5	17.1	16.5	16.9	17.4	18.0
		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	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	88	74	79	86	92	77	82	89	95

85	1350	MBh	42.5	43.3	45.4	48.4	41.5	42.3	44.3	47.3	40.5	41.3	43.3	46.2	39.5	40.3	42.2	45.0	37.6	38.3	40.1	42.8	34.8	35.5	37.1	39.6
		S/T	0.88	0.85	0.77	0.62	0.91	0.88	0.80	0.65	0.94	0.90	0.82	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	24	21	26	25	24	21	26	25	24	21	26	26	24	21	26	25	24	21	24	24	22	19
		KW	2.96	3.02	3.12	3.22	3.19	3.25	3.36	3.47	3.39	3.46	3.57	3.69	3.56	3.64	3.76	3.89	3.71	3.80	3.92	4.05	3.84	3.93	4.06	4.20
		AMPS	12.4	12.7	13.0	13.4	13.3	13.6	14.0	14.4	14.3	14.6	15.0	15.5	15.2	15.5	16.0	16.5	16.0	16.4	16.9	17.5	16.9	17.3	17.8	18.5
		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	63	67	73	78	67	71	78	83	69	74	81	86	73	78	85	90	76	81	89	95	79	84	92	98
	1250	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	42.4	34.4	35.1	36.8	39.2
		S/T	0.86	0.83	0.75	0.61	0.90	0.86	0.78	0.63	0.92	0.89	0.80	0.65	0.95	0.91	0.83	0.67	0.98	0.95	0.86	0.69	0.99	0.96	0.86	0.70
		Delta T	27	26	25	22	27	27	25	22	27	27	25	22	27	27	25	22	27	26	25	22	25	25	23	20
		KW	2.95	3.01	3.11	3.21	3.18	3.25	3.35	3.46	3.38	3.45	3.56	3.68	3.55	3.63	3.75	3.88	3.70	3.79	3.91	4.04	3.83	3.92	4.05	4.19
		AMPS	12.4	12.6	13.0	13.4	13.2	13.5	13.9	14.4	14.3	14.6	15.0	15.5	15.1	15.5	15.9	16.5	16.0	16.4	16.9	17.5	16.9	17.3	17.8	18.4
		HI PR	154	166	175	183	173	186	196	205	197	212	223	233	224	241	255	265	252	271	286	299	278	300	316	330
		LO PR	63	67	73	78	67	71	77	82	69	74	80	86	73	77	84	90	76	81	88	94	79	84	92	97
	1150	MBh	41.4	42.3	44.3	47.2	40.5	41.3	43.2	46.1	39.5	40.3	42.2	45.0	38.6	39.3	41.2	43.9	36.6	37.3	39.1	41.7	33.9	34.6	36.2	38.6
		S/T	0.83	0.80	0.73	0.59	0.86	0.83	0.75	0.61	0.89	0.85	0.77	0.63	0.91	0.88	0.80	0.65	0.95	0.92	0.83	0.67	0.96	0.92	0.83	0.68
		Delta T	28	27	26	22	28	27	26	22	28	28	26	23	28	28	26	23	28	27	26	22	26	26	24	21
		KW	2.91	2.97	3.07	3.16	3.13	3.20	3.30	3.41	3.33	3.40	3.51	3.63	3.50	3.58	3.70	3.82	3.65	3.73	3.85	3.98	3.78	3.86	3.99	4.13
		AMPS	12.2	12.5	12.8	13.2	13.1	13.3	13.7	14.2	14.1	14.4	14.8	15.3	14.9	15.2	15.7	16.2	15.8	16.1	16.6	17.2	16.6	17.0	17.5	18.1
		HI PR	151	163	172	180	170	183	193	201	193	208	220	229	220	237	250	261	248	267	281	294	274	295	311	324
		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

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

PHD60C02* LOW STAGE

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHD60C02* HIGH STAGE

			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	1950	MBh	54.1	56.0	61.4	-	52.8	54.7	60.0	-	51.6	53.4	58.6	-	50.3	52.1	57.1	-	47.8	49.5	54.3	-	44.3	45.9	50.3	-
		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	0.45	-	0.79	0.66	0.46	-
		Delta T	18	15	12	-	18	15	12	-	18	15	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		KW	4.11	4.20	4.33	-	4.42	4.52	4.66	-	4.70	4.80	4.95	-	4.94	5.04	5.21	-	5.14	5.25	5.43	-	5.32	5.44	5.61	-
		AMPS	17.1	17.4	17.9	-	18.3	18.7	19.2	-	19.7	20.1	20.7	-	20.9	21.3	22.0	-	22.1	22.6	23.2	-	23.2	23.8	24.5	-
		HI PR	167	179	189	-	187	201	213	-	213	229	242	-	242	261	275	-	273	293	310	-	301	324	342	-
		LO PR	59	62	68	-	62	66	72	-	64	68	75	-	68	72	78	-	71	75	82	-	73	78	85	-
	1750	MBh	53.3	55.2	60.5	-	52.0	53.9	59.1	-	50.8	52.7	57.7	-	49.6	51.4	56.3	-	47.1	48.8	53.5	-	43.6	45.2	49.5	-
		S/T	0.66	0.55	0.38	-	0.69	0.57	0.40	-	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.76	0.63	0.44	-
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
		KW	4.09	4.18	4.31	-	4.40	4.49	4.63	-	4.67	4.77	4.92	-	4.91	5.02	5.18	-	5.11	5.22	5.39	-	5.29	5.40	5.58	-
		AMPS	17.0	17.3	17.8	-	18.2	18.6	19.1	-	19.5	20.0	20.6	-	20.7	21.2	21.8	-	21.9	22.4	23.1	-	23.1	23.6	24.4	-
		HI PR	166	178	188	-	186	200	211	-	211	227	240	-	241	259	273	-	271	291	308	-	299	322	340	-
		LO PR	58	62	68	-	61	65	71	-	64	68	74	-	67	71	78	-	70	75	82	-	73	77	84	-
	1600	MBh	52.5	54.4	59.6	-	51.3	53.1	58.2	-	50.0	51.9	56.8	-	48.8	50.6	55.4	-	46.4	48.1	52.7	-	43.0	44.5	48.8	-
		S/T	0.64	0.53	0.37	-	0.66	0.55	0.38	-	0.68	0.57	0.39	-	0.70	0.58	0.40	-	0.73	0.61	0.42	-	0.73	0.61	0.42	-
		Delta T	19	17	13	-	19	17	13	-	19	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-
		KW	4.04	4.12	4.25	-	4.34	4.43	4.57	-	4.61	4.70	4.85	-	4.84	4.95	5.10	-	5.04	5.15	5.32	-	5.21	5.33	5.50	-
		AMPS	16.8	17.1	17.6	-	17.9	18.3	18.8	-	19.3	19.7	20.3	-	20.5	20.9	21.5	-	21.6	22.1	22.8	-	22.8	23.3	24.0	-
		HI PR	163	175	185	-	183	196	207	-	208	223	236	-	237	255	269	-	266	286	302	-	294	316	334	-
		LO PR	57	61	66	-	60	64	70	-	63	67	73	-	66	70	77	-	69	74	80	-	71	76	83	-

75	1950	MBh	55.0	56.6	61.3	65.8	53.7	55.3	59.9	64.2	52.4	54.0	58.4	62.7	51.2	52.7	57.0	61.2	48.6	50.0	54.2	58.1	45.0	46.3	50.2	53.8
		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	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	20	19	15	11	19	18	14	10
		KW	4.15	4.23	4.36	4.50	4.46	4.55	4.70	4.85	4.73	4.84	4.99	5.15	4.98	5.09	5.25	5.42	5.18	5.30	5.47	5.65	5.36	5.48	5.66	5.85
		AMPS	17.2	17.6	18.1	18.7	18.4	18.8	19.4	20.0	19.8	20.3	20.9	21.6	21.0	21.5	22.1	22.9	22.3	22.7	23.4	24.2	23.4	24.0	24.7	25.6
		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	361
		LO PR	59	63	69	73	63	67	73	77	65	69	75	80	68	73	79	84	72	76	83	88	74	79	86	91
	1750	MBh	54.2	55.8	60.4	64.8	52.9	54.5	59.0	63.3	51.7	53.2	57.6	61.8	50.4	51.9	56.2	60.3	47.9	49.3	53.4	57.3	44.4	45.7	49.4	53.0
		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	0.86	0.77	0.58	0.37	0.86	0.77	0.58	0.38
		Delta T	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	20	19	15	10
		KW	4.12	4.21	4.34	4.48	4.43	4.53	4.67	4.82	4.71	4.81	4.96	5.12	4.95	5.06	5.22	5.39	5.16	5.27	5.44	5.62	5.33	5.45	5.63	5.82
		AMPS	17.1	17.5	18.0	18.6	18.3	18.7	19.2	19.9	19.7	20.1	20.7	21.4	20.9	21.4	22.0	22.8	22.1	22.6	23.3	24.1	23.3	23.8	24.6	25.4
		HI PR	167	180	190	198	188	202	213	222	213	230	243	253	243	262	276	288	273	294	311	324	302	325	343	358
		LO PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	82	88	73	78	85	91
	1600	MBh	53.4	54.9	59.5	63.8	52.1	53.7	58.1	62.3	50.9	52.4	56.7	60.9	49.6	51.1	55.3	59.4	47.2	48.6	52.6	56.4	43.7	45.0	48.7	52.3
		S/T	0.72	0.65	0.49	0.32	0.75	0.67	0.51	0.33	0.77	0.69	0.52	0.34	0.79	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.83	0.74	0.56	0.36
		Delta T	22	20	17	12	22	21	17	12	23	21	17	12	23	21	17	12	22	21	17	12	21	19	16	11
		KW	4.07	4.15	4.28	4.42	4.38	4.47	4.61	4.75	4.64	4.74	4.89	5.05	4.88	4.99	5.15	5.32	5.08	5.19	5.36	5.54	5.26	5.37	5.55	5.73
		AMPS	16.9	17.2	17.7	18.3	18.1	18.5	19.0	19.6	19.4	19.9	20.4	21.1	20.6	21.1	21.7	22.4	21.8	22.3	23.0	23.8	23.0	23.5	24.2	25.0
		HI PR	164	177	187	195	184	198	210	219	210	226	238	249	239	257	272	283	269	289	305	319	297	320	337	352
		LO PR	58	61	67	71	61	65	71	75	63	67	74	78	67	71	77	82	70	74	81	86	72	77	84	89

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

PHD60C02* HIGH STAGE

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHD60C02* HIGH STAGE

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	1950	MBh	56.0	57.2	61.1	65.3	54.7	55.9	59.7	63.8	53.4	54.5	58.3	62.3	52.1	53.2	56.8	60.8	49.5	50.5	54.0	57.7	45.8	46.8	50.0	53.5
		S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.93	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	22	20	18	14
		KW	4.18	4.27	4.40	4.54	4.50	4.59	4.74	4.89	4.77	4.88	5.03	5.20	5.02	5.13	5.29	5.47	5.23	5.34	5.52	5.70	5.41	5.53	5.71	5.90
		AMPS	17.3	17.7	18.2	18.8	18.6	19.0	19.5	20.2	20.0	20.4	21.0	21.7	21.2	21.7	22.3	23.1	22.4	22.9	23.6	24.5	23.6	24.2	24.9	25.8
		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	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	55.1	56.3	60.2	64.4	53.9	55.0	58.8	62.9	52.6	53.7	57.4	61.4	51.3	52.4	56.0	59.9	48.7	49.8	53.2	56.9	45.1	46.1	49.3	52.7
		S/T	0.82	0.77	0.63	0.47	0.85	0.80	0.65	0.49	0.88	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.95	0.89	0.72	0.54
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	22	19	15
		KW	4.16	4.24	4.37	4.51	4.47	4.56	4.71	4.86	4.75	4.85	5.00	5.17	4.99	5.10	5.26	5.44	5.20	5.31	5.49	5.67	5.38	5.50	5.68	5.87
		AMPS	17.2	17.6	18.1	18.7	18.5	18.9	19.4	20.1	19.9	20.3	20.9	21.6	21.1	21.6	22.2	23.0	22.3	22.8	23.5	24.3	23.5	24.0	24.8	25.6
		HI PR	169	182	192	200	190	204	215	225	216	232	245	255	246	264	279	291	276	297	314	327	305	328	347	362
	LO PR	59	63	69	73	63	67	73	78	65	69	76	81	68	73	80	85	72	76	83	89	74	79	86	92	
	1600	MBh	54.3	55.5	59.3	63.4	53.1	54.2	57.9	61.9	51.8	52.9	56.5	60.4	50.5	51.6	55.2	59.0	48.0	49.0	52.4	56.0	44.5	45.4	48.5	51.9
		S/T	0.79	0.75	0.61	0.45	0.82	0.77	0.63	0.47	0.84	0.79	0.64	0.48	0.87	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.91	0.86	0.70	0.52
		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	4.10	4.19	4.32	4.45	4.41	4.50	4.64	4.79	4.68	4.78	4.93	5.09	4.92	5.03	5.19	5.36	5.13	5.24	5.41	5.59	5.30	5.42	5.60	5.78
		AMPS	17.0	17.4	17.9	18.4	18.2	18.6	19.1	19.8	19.6	20.0	20.6	21.3	20.8	21.2	21.9	22.6	22.0	22.5	23.2	24.0	23.2	23.7	24.4	25.3
		HI PR	166	179	189	197	186	201	212	221	212	228	241	251	241	260	274	286	272	292	309	322	300	323	341	356
	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	

85	1950	MBh	56.9	58.1	60.8	64.9	55.6	56.7	59.4	63.4	54.3	55.4	58.0	61.8	53.0	54.0	56.6	60.3	50.3	51.3	53.7	57.3	46.6	47.5	49.8	53.1
		S/T	0.90	0.87	0.79	0.64	0.93	0.90	0.81	0.66	0.96	0.93	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	24	24	23	19	25	24	23	20	25	24	23	20	25	24	23	20	24	24	23	20	22	22	21	18
		KW	4.21	4.30	4.43	4.57	4.53	4.63	4.77	4.93	4.81	4.92	5.07	5.24	5.06	5.17	5.34	5.51	5.27	5.39	5.56	5.75	5.45	5.57	5.76	5.95
		AMPS	17.5	17.8	18.4	19.0	18.7	19.1	19.7	20.3	20.1	20.6	21.2	21.9	21.4	21.9	22.5	23.3	22.6	23.1	23.8	24.7	23.8	24.4	25.1	26.0
		HI PR	172	185	195	204	193	207	219	228	219	236	249	260	250	269	284	296	281	302	319	333	310	334	353	368
	1750	LO PR	60	64	70	75	64	68	74	79	66	71	77	82	70	74	81	86	73	78	85	90	75	80	88	93
		MBh	56.1	57.2	59.9	63.9	54.8	55.9	58.5	62.4	53.5	54.5	57.1	60.9	52.2	53.2	55.7	59.4	49.6	50.5	52.9	56.5	45.9	46.8	49.0	52.3
		S/T	0.86	0.83	0.75	0.61	0.90	0.86	0.78	0.63	0.92	0.89	0.80	0.65	0.95	0.91	0.83	0.67	0.98	0.95	0.86	0.69	0.99	0.96	0.86	0.70
		Delta T	25	25	24	20	26	25	24	21	26	25	24	21	26	26	24	21	26	25	24	21	24	24	22	19
		KW	4.19	4.28	4.41	4.55	4.51	4.60	4.75	4.90	4.78	4.89	5.04	5.21	5.03	5.14	5.31	5.48	5.24	5.36	5.53	5.72	5.42	5.54	5.72	5.92
		AMPS	17.4	17.7	18.3	18.9	18.6	19.0	19.6	20.2	20.0	20.5	21.1	21.8	21.3	21.7	22.4	23.2	22.5	23.0	23.7	24.5	23.7	24.2	25.0	25.9
	1600	HI PR	171	184	194	202	191	206	218	227	218	234	247	258	248	267	282	294	279	300	317	331	308	332	350	365
		LO PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93
		MBh	55.3	56.3	59.0	62.9	54.0	55.0	57.6	61.5	52.7	53.7	56.3	60.0	51.4	52.4	54.9	58.6	48.8	49.8	52.1	55.6	45.2	46.1	48.3	51.5
		S/T	0.83	0.80	0.73	0.59	0.86	0.83	0.75	0.61	0.89	0.85	0.77	0.63	0.91	0.88	0.80	0.65	0.95	0.92	0.83	0.67	0.96	0.92	0.83	0.68
		Delta T	26	26	25	21	27	26	25	22	27	26	25	22	27	27	25	22	27	26	25	21	25	24	23	20
		KW	4.13	4.22	4.35	4.49	4.44	4.54	4.68	4.83	4.72	4.82	4.97	5.14	4.96	5.07	5.23	5.41	5.17	5.28	5.45	5.63	5.34	5.46	5.64	5.83
		AMPS	17.1	17.5	18.0	18.6	18.4	18.7	19.3	19.9	19.8	20.2	20.8	21.5	21.0	21.4	22.1	22.8	22.2	22.7	23.4	24.2	23.4	23.9	24.6	25.5
		HI PR	168	180	191	199	188	203	214	223	214	230	243	254	244	262	277	289	274	295	312	325	303	326	344	359
		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

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

PHD60C02* HIGH STAGE

HEATING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

MODEL: PHD24C02*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5		-5	-10
MBh	29.7	28.1	26.4	24.7	23.6	22.9	21.2	19.6	15.7	14.5	13.3	12.6	12.1	10.9	9.7	8.4	7.2	5.9
T/R	31.9	30.2	28.5	26.6	25.4	24.6	22.9	21.1	16.9	15.6	14.4	13.6	13.1	11.7	10.4	9.1	7.7	6.3
KW	2.28	2.24	2.20	2.15	2.13	2.11	2.07	2.03	1.99	1.94	1.90	1.88	1.86	1.82	1.77	1.73	1.69	1.65
AMPS	11.2	10.5	9.9	9.4	9.1	9.0	8.5	8.2	7.9	7.6	7.3	7.2	7.1	6.8	6.4	6.1	5.8	5.3
COP	3.80	3.67	3.52	3.36	3.24	3.17	3.00	2.83	2.31	2.18	2.06	1.97	1.91	1.76	1.59	1.42	1.25	1.05
EER	13.0	12.5	12.0	11.5	11.1	10.8	10.3	9.7	7.9	7.5	7.0	6.7	6.5	6.0	5.4	4.9	4.3	3.6
HI PR	263	252	242	231	226	222	213	205	196	187	180	175	172	166	159	153	147	142
LO PR	81	76	71	65	61	59	54	48	44	39	34	32	31	26	22	19	17	13

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: PHD30C02*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5		-5	-10
MBh	37.0	35.0	32.9	30.8	29.4	28.5	26.5	24.4	19.9	18.4	16.9	16.0	15.4	13.8	12.3	10.7	9.1	7.5
T/R	34.9	33.1	31.1	29.1	27.8	26.9	25.0	23.1	18.8	17.4	16.0	15.1	14.6	13.1	11.6	10.1	8.6	7.1
KW	2.87	2.81	2.76	2.70	2.67	2.65	2.59	2.54	2.42	2.36	2.31	2.28	2.26	2.20	2.15	2.10	2.05	1.99
AMPS	14.6	13.6	12.8	12.1	11.8	11.6	11.0	10.5	10.1	9.7	9.3	9.1	9.0	8.6	8.1	7.8	7.3	6.7
COP	3.77	3.64	3.49	3.33	3.22	3.15	2.99	2.81	2.41	2.28	2.15	2.05	2.00	1.83	1.67	1.49	1.30	1.10
EER	12.9	12.4	11.9	11.4	11.0	10.8	10.2	9.6	8.2	7.8	7.3	7.0	6.8	6.3	5.7	5.1	4.5	3.7
HI PR	260	250	240	229	224	220	211	203	194	185	178	174	171	164	158	151	146	141
LO PR	79	73	69	63	60	57	53	47	42	38	33	31	30	25	22	18	16	13

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: PHD36C02*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5		-5	-10
MBh	42.7	40.5	38.1	35.6	34.0	32.9	30.6	28.2	22.4	20.7	19.1	18.0	17.3	15.6	13.8	12.0	10.3	8.4
T/R	33.8	32.0	30.1	28.2	26.9	26.1	24.2	22.3	17.7	16.4	15.1	14.2	13.7	12.3	10.9	9.5	8.1	6.7
KW	3.29	3.22	3.16	3.10	3.06	3.03	2.97	2.91	2.90	2.83	2.77	2.73	2.70	2.64	2.58	2.51	2.45	2.38
AMPS	17.1	16.0	15.1	14.3	13.8	13.6	12.9	12.3	11.9	11.4	10.9	10.7	10.6	10.1	9.6	9.1	8.5	7.9
COP	3.80	3.67	3.53	3.36	3.25	3.18	3.01	2.84	2.27	2.14	2.02	1.93	1.88	1.72	1.57	1.40	1.23	1.03
EER	13.0	12.5	12.0	11.5	11.1	10.9	10.3	9.7	7.7	7.3	6.9	6.6	6.4	5.9	5.4	4.8	4.2	3.5
HI PR	274	263	253	242	236	232	223	214	205	195	188	183	180	173	166	160	154	148
LO PR	74	69	65	59	56	54	50	44	40	36	31	29	28	24	20	17	15	12

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

HEATING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

MODEL: PHD42C02*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5		-5	-10
MBh	51.5	48.8	45.9	42.9	41.0	39.7	36.9	34.0	26.8	24.7	22.8	21.5	20.7	18.6	16.5	14.4	12.3	10.0
T/R	38.2	36.1	34.0	31.8	30.4	29.4	27.3	25.2	19.8	18.3	16.9	15.9	15.3	13.8	12.2	10.6	9.1	7.4
KW	4.10	4.01	3.93	3.84	3.79	3.75	3.67	3.58	3.46	3.37	3.29	3.24	3.21	3.12	3.04	2.95	2.87	2.79
AMPS	21.4	19.9	18.6	17.5	16.9	16.6	15.7	14.9	14.3	13.6	13.0	12.7	12.5	11.9	11.1	10.5	9.7	8.8
COP	3.68	3.56	3.42	3.27	3.17	3.10	2.94	2.78	2.27	2.15	2.03	1.94	1.89	1.74	1.59	1.42	1.25	1.05
EER	12.6	12.2	11.7	11.2	10.8	10.6	10.1	9.5	7.7	7.3	6.9	6.6	6.5	6.0	5.4	4.9	4.3	3.6
HI PR	311	299	287	274	268	263	253	243	232	222	213	208	204	196	189	181	175	169
LO PR	74	68	64	59	56	53	49	44	40	35	31	29	28	24	20	17	15	12

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: PHD48C02*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5		-5	-10
MBh	58.5	55.3	52.1	48.7	46.5	45.1	41.9	38.6	33.0	30.5	28.1	26.5	25.5	22.9	20.3	17.7	15.1	12.4
T/R	34.9	33.1	31.1	29.1	27.8	26.9	25.0	23.1	19.7	18.2	16.8	15.8	15.2	13.7	12.1	10.6	9.0	7.4
KW	4.84	4.75	4.65	4.56	4.50	4.46	4.37	4.27	4.12	4.03	3.93	3.88	3.84	3.75	3.66	3.57	3.47	3.38
AMPS	23.9	22.3	21.0	19.8	19.2	18.9	17.9	17.1	16.4	15.8	15.1	14.8	14.6	14.0	13.2	12.5	11.7	10.7
COP	3.53	3.41	3.28	3.13	3.02	2.96	2.80	2.64	2.34	2.22	2.09	2.00	1.94	1.79	1.62	1.45	1.27	1.07
EER	12.1	11.7	11.2	10.7	10.3	10.1	9.6	9.0	8.0	7.6	7.1	6.8	6.6	6.1	5.6	5.0	4.4	3.7
HI PR	294	281	271	259	253	248	238	229	219	209	201	196	192	185	178	171	165	159
LO PR	62	58	54	50	47	45	42	37	33	30	26	24	24	20	17	14	13	10

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: PHD60C02*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5		-5	-10
MBh	67.9	64.3	60.5	56.5	54.0	52.3	48.6	44.8	37.4	34.5	31.8	30.0	28.9	25.9	23.0	20.0	17.1	14.0
T/R	35.9	34.0	32.0	29.9	28.6	27.7	25.7	23.7	19.8	18.3	16.8	15.9	15.3	13.7	12.2	10.6	9.0	7.4
KW	6.18	6.05	5.93	5.80	5.73	5.68	5.56	5.43	4.11	4.02	3.93	3.88	3.84	3.75	3.66	3.58	3.48	3.40
AMPS	30.5	28.3	26.6	25.1	24.3	23.9	22.6	21.5	20.7	19.9	19.0	18.6	18.3	17.5	16.5	15.6	14.5	13.3
COP	3.22	3.11	2.99	2.85	2.76	2.70	2.56	2.41	2.66	2.51	2.36	2.26	2.20	2.02	1.84	1.64	1.44	1.21
EER	11.0	10.6	10.2	9.7	9.4	9.2	8.7	8.3	9.1	8.6	8.1	7.7	7.5	6.9	6.3	5.6	4.9	4.1
HI PR	372	356	343	328	320	314	302	290	277	265	254	248	244	235	226	216	209	201
LO PR	71	66	62	56	53	51	47	42	38	34	30	28	27	23	19	16	14	11

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

HEATING 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.

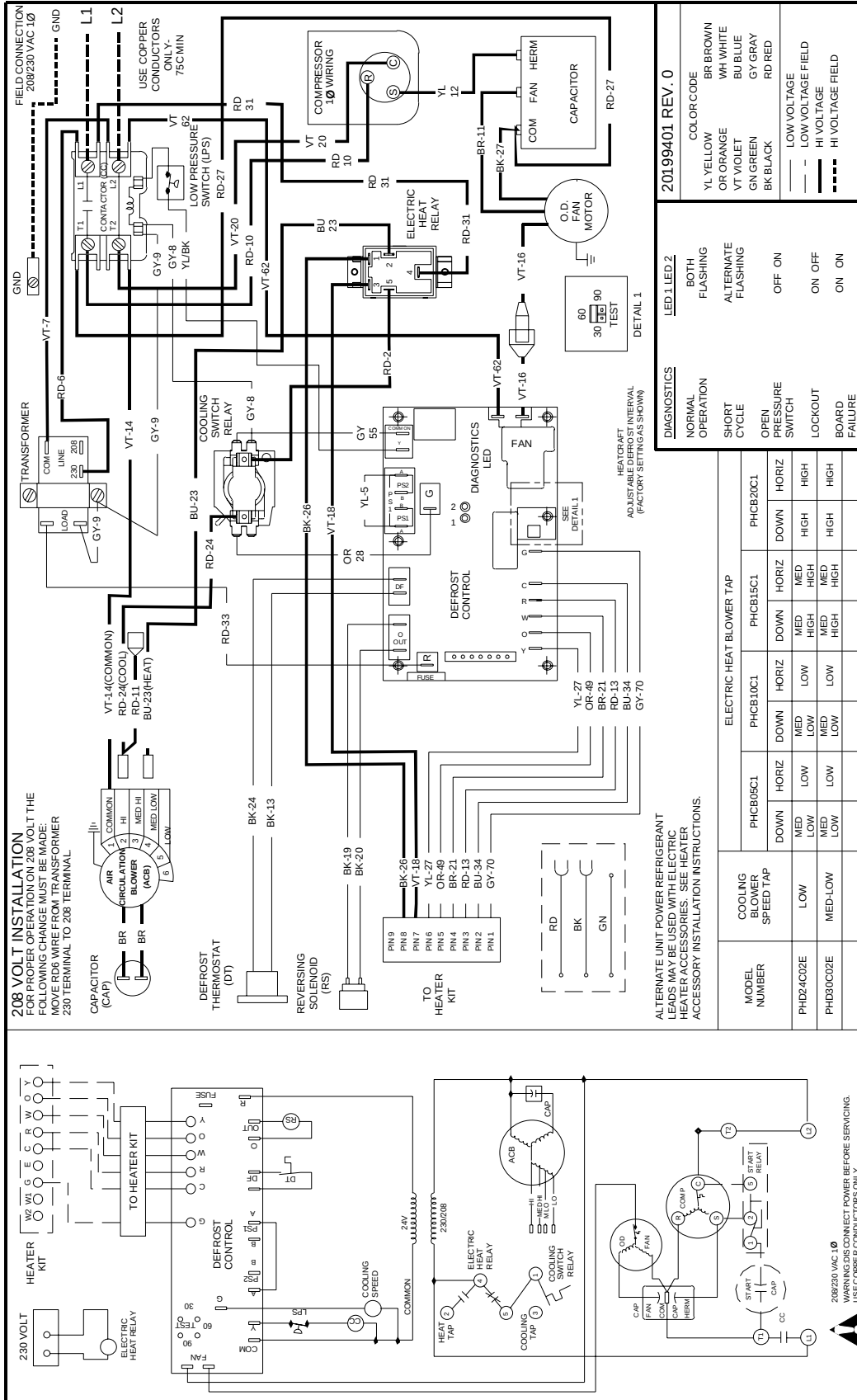
WIRING DIAGRAMS

PHD24, 30C02E (Manufacturing Numbers P1224301-02C)



WARNING

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, 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.

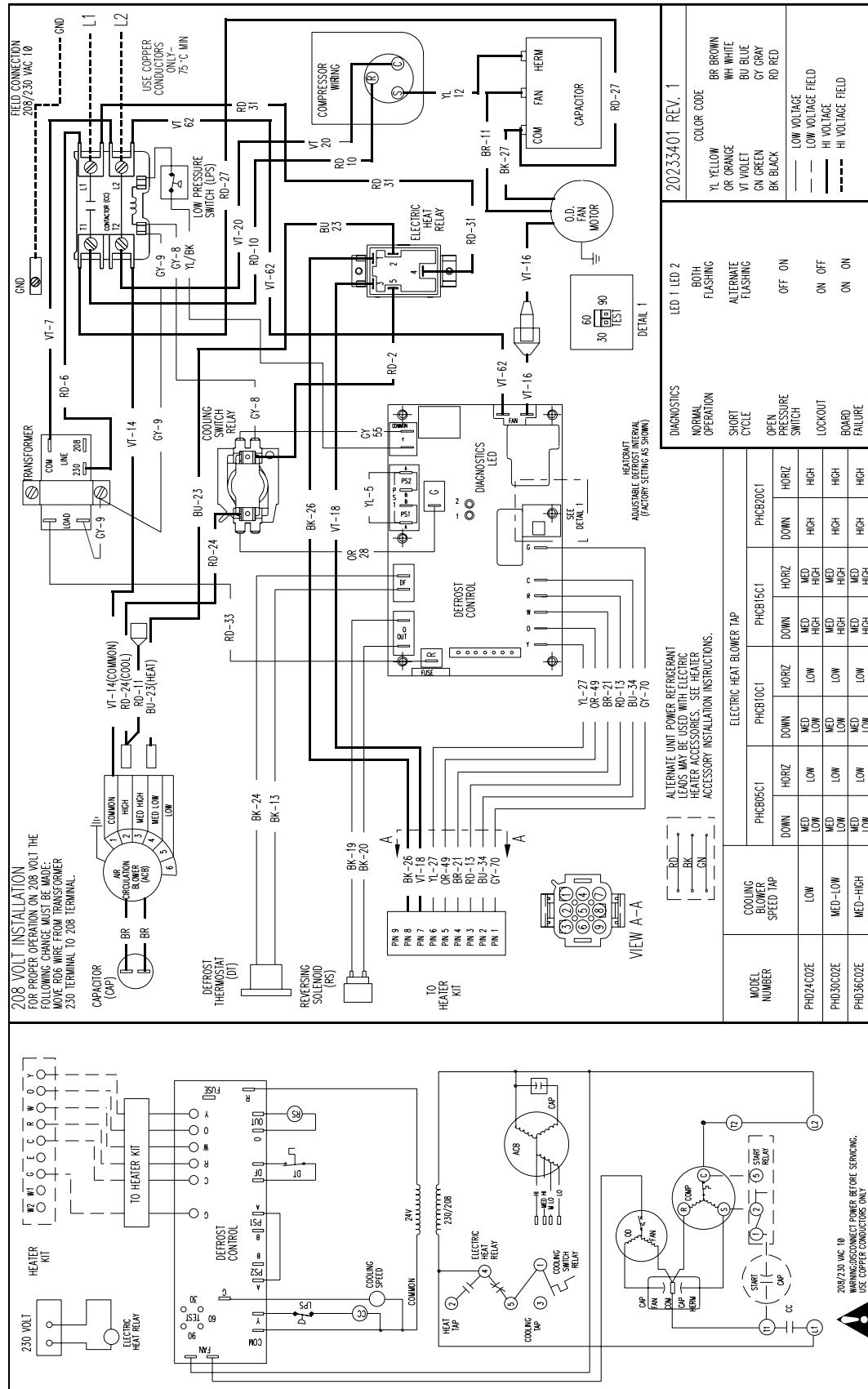
WIRING DIAGRAMS

PHD24-36C02E (Manufacturing Numbers P1224301-03C)



WARNING

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, 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.

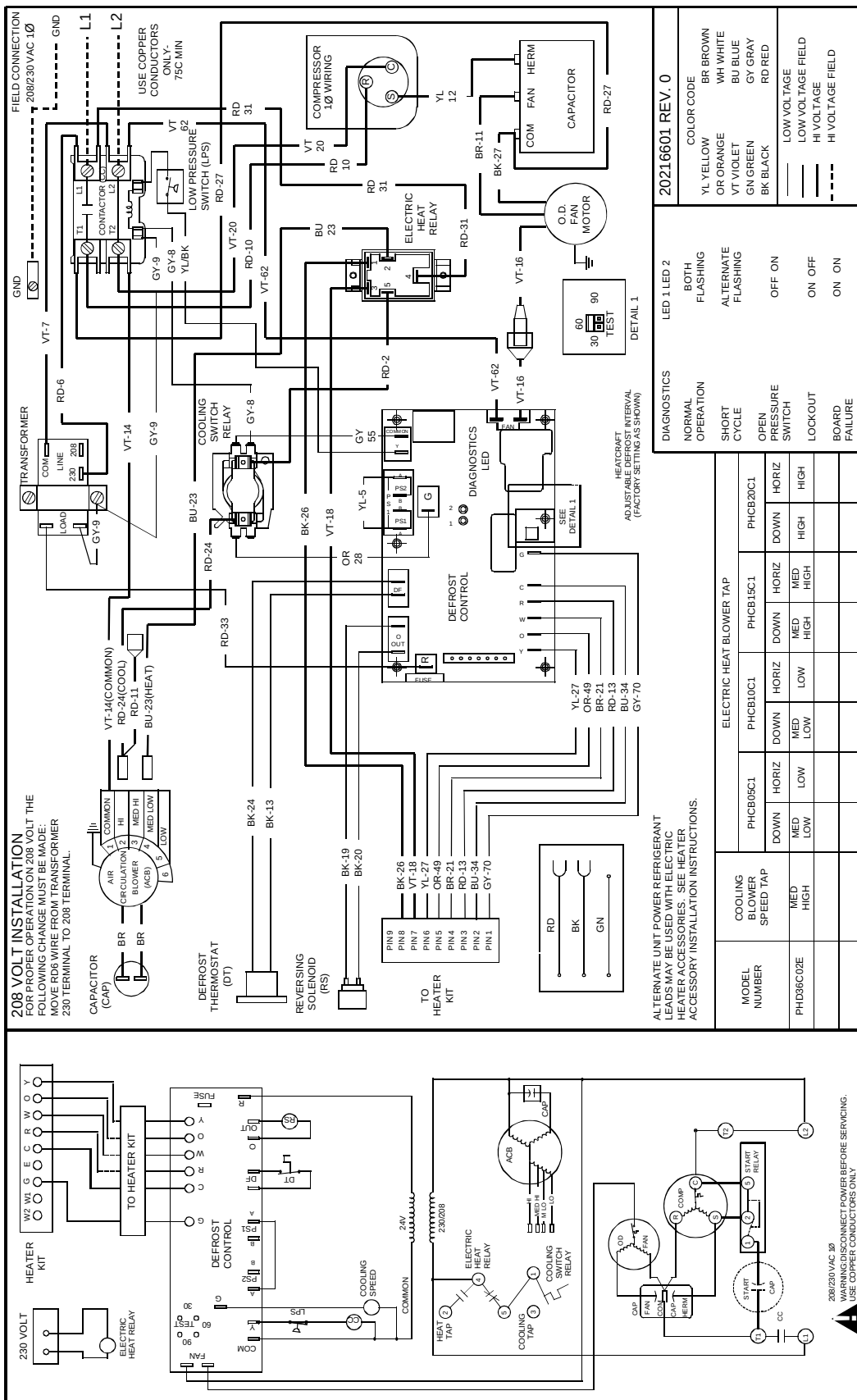
WIRING DIAGRAMS

PHD36C02E (Manufacturing Number P1224303C)



WARNING

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, 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.

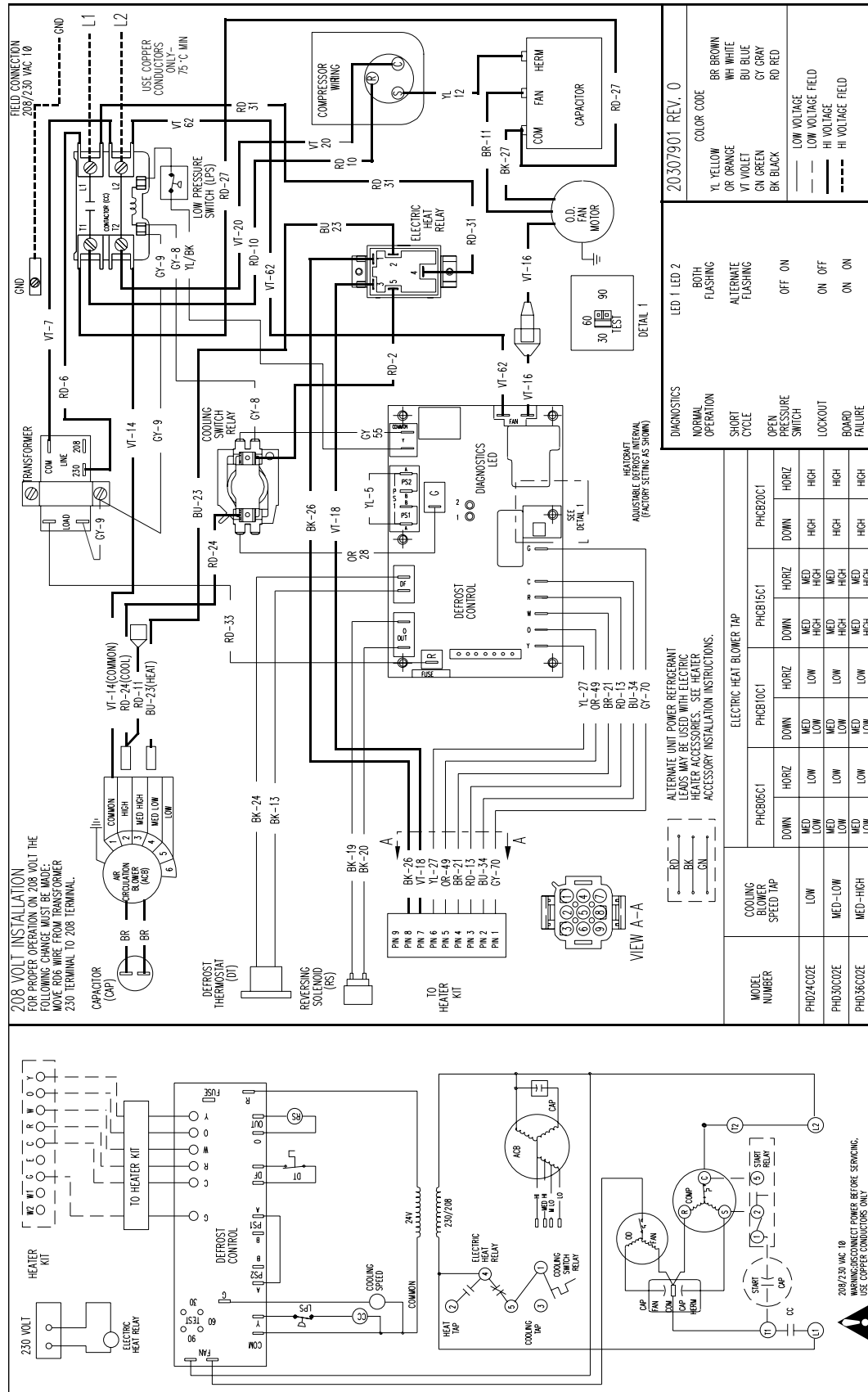
WIRING DIAGRAMS

PHD24-36C02E (Manufacturing Numbers P1224301-03C)



WARNING

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, 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.

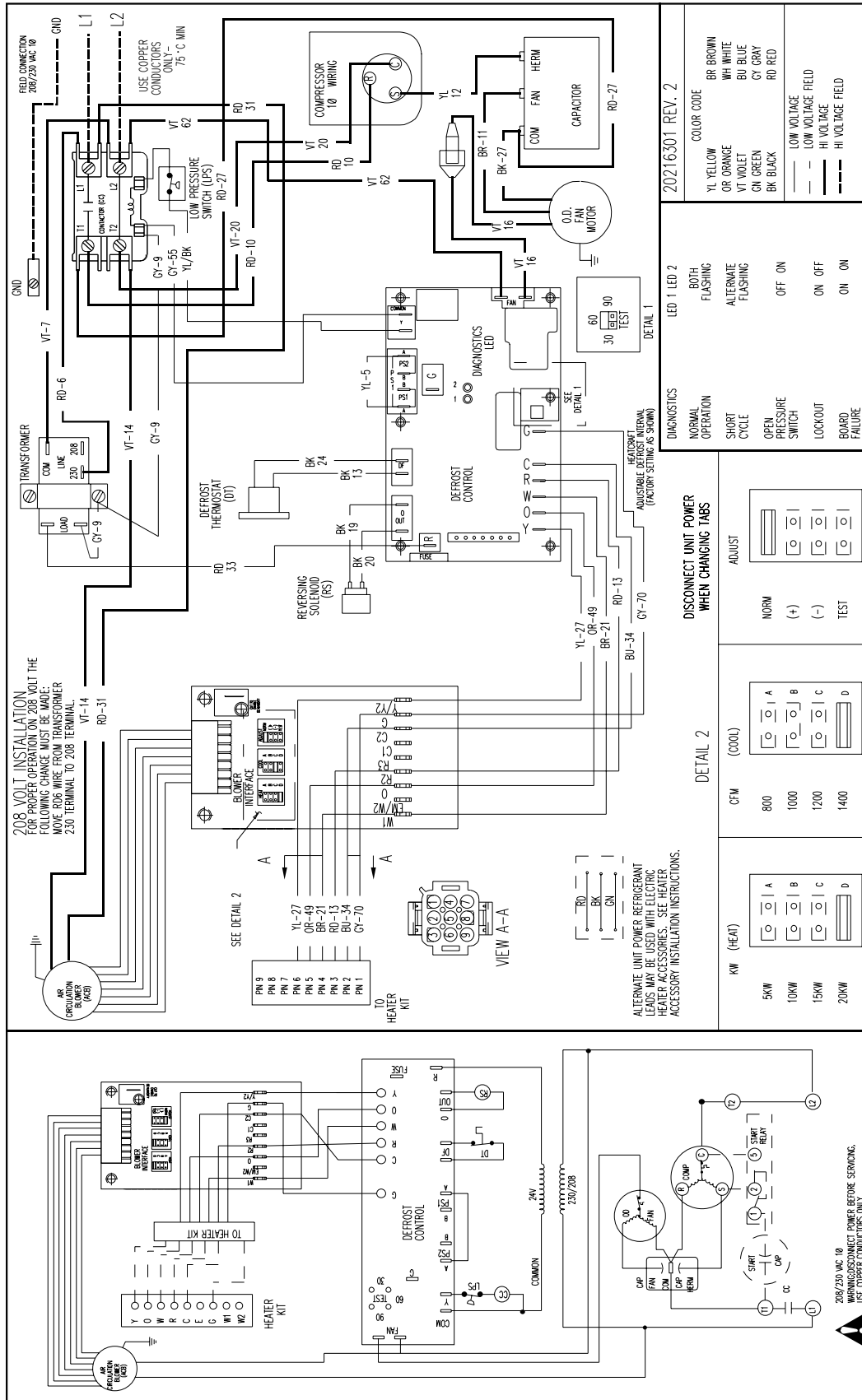
WIRING DIAGRAMS

PHD42C02E (Manufacturing Number P1224304C)



WARNING

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



		20216301 REV. 2	
20216301 REV. 2		LED 1 LED 2	
DIAGNOSTICS		NORMAL OPERATION	
BOTH FLASHING		ALTERNATE FLASHING	
OFF ON		OFF ON	
ON OFF		ON OFF	
ON ON		ON ON	
BOARD FAILURE		BOARD FAILURE	
DISCONNECT UNIT POWER WHEN CHANGING TABS		ADJUST	
NORM		NORM	
(+) (+)		(+) (+)	
(-) (-)		(-) (-)	
TEST TEST		TEST TEST	
DETAIL 2		CFM (COOL)	
800		800	
1000		1000	
1200		1200	
1400		1400	
KW (HEAT)		KW (HEAT)	
5KW		5KW	
10KW		10KW	
15KW		15KW	
20KW		20KW	

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

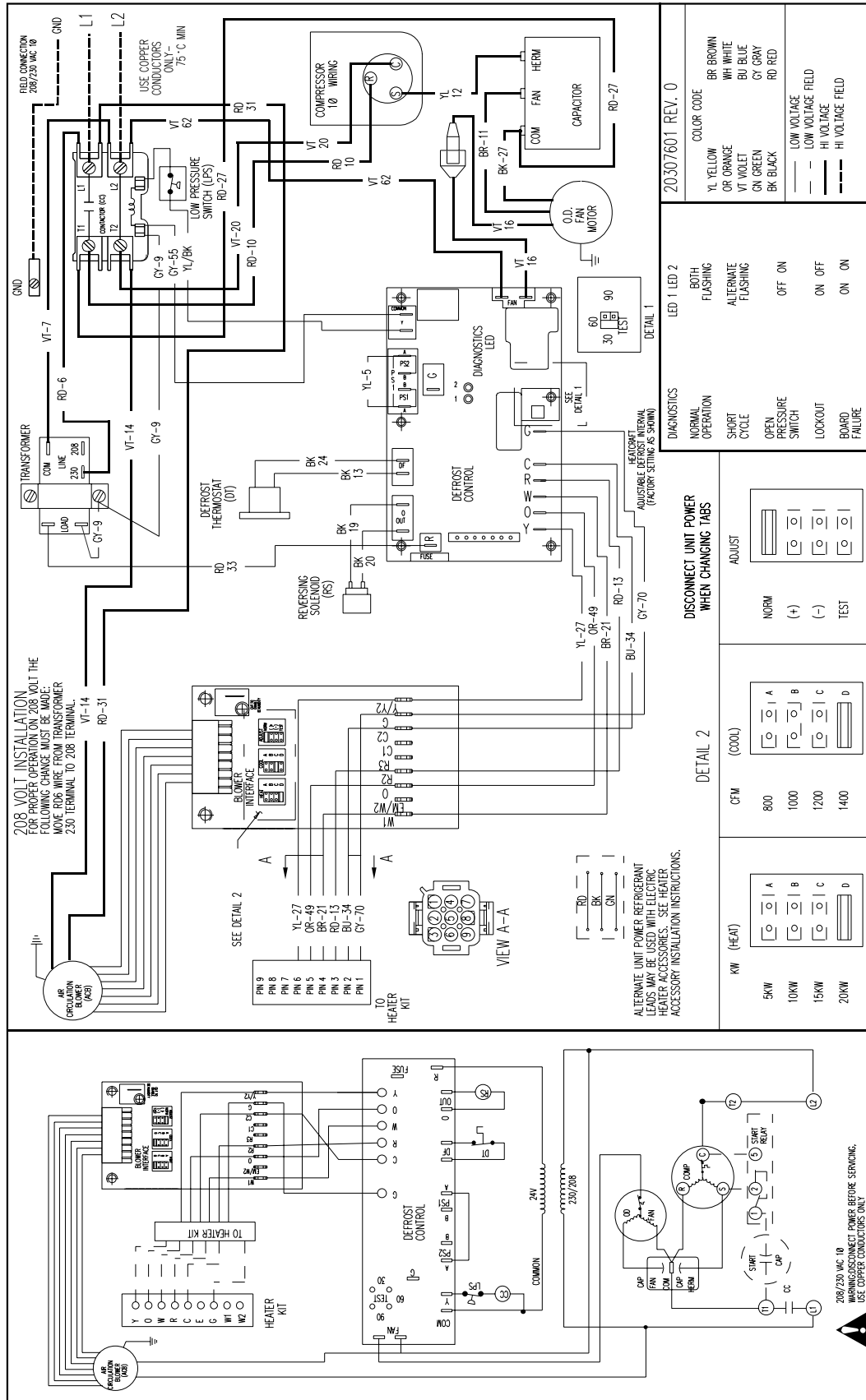
WIRING DIAGRAMS

PHD42C02E (Manufacturing Number P1224304C)



WARNING

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



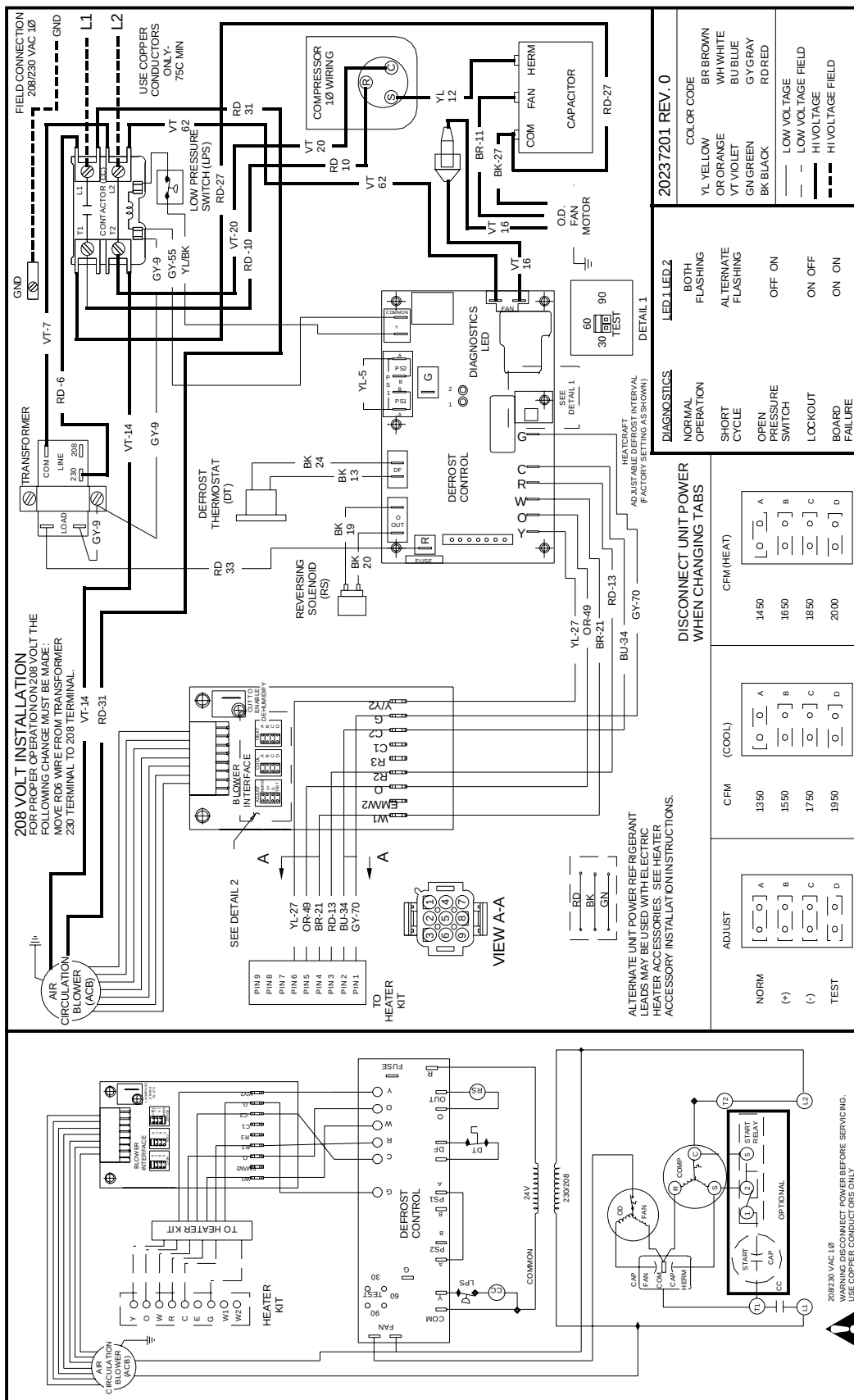
Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

WIRING DIAGRAMS

PHD48C02E (Manufacturing Number P1224305C)



TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, 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.

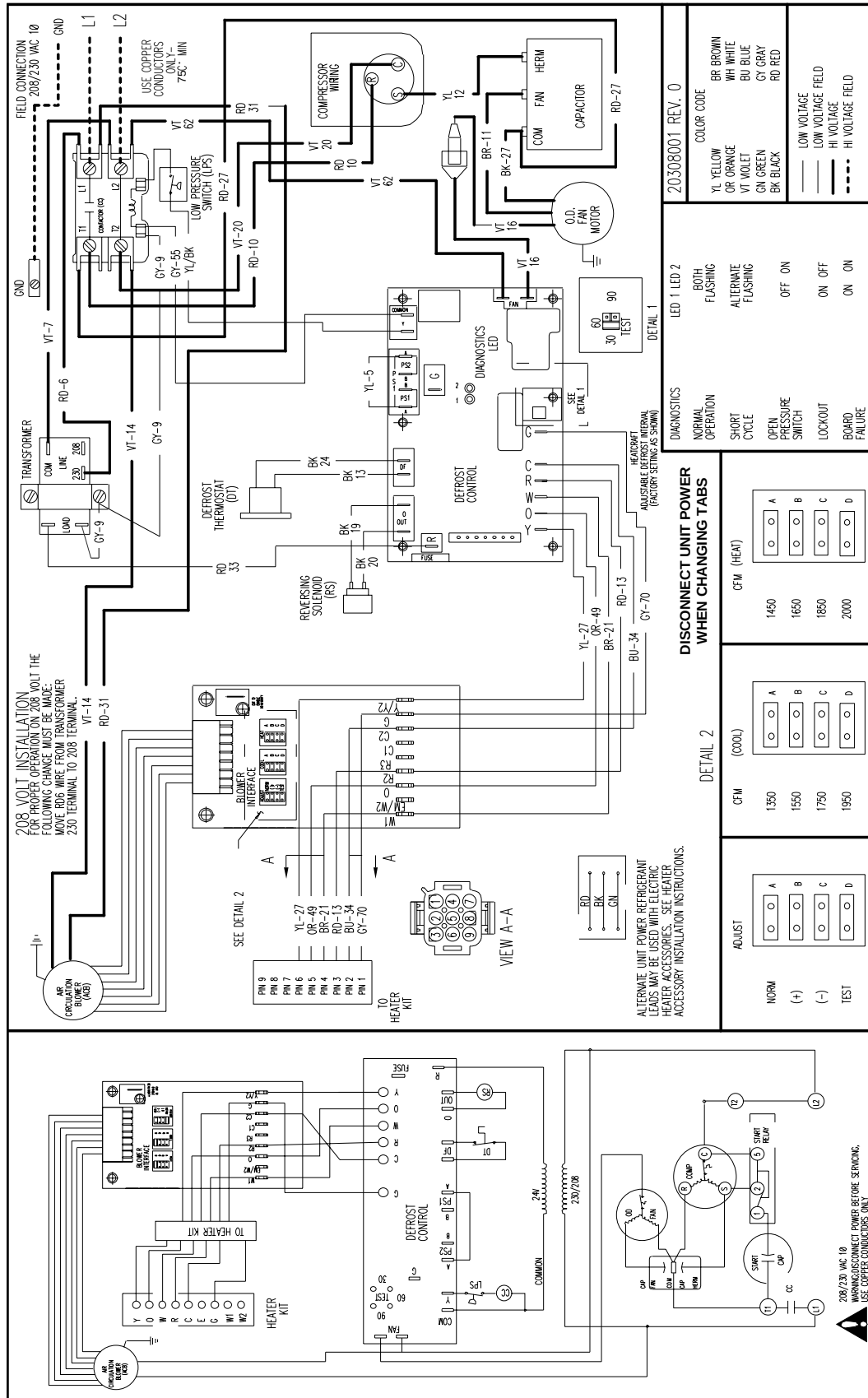
WIRING DIAGRAMS

PHD48C02E (Manufacturing Numbers P1224305C)



WARNING

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, 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.

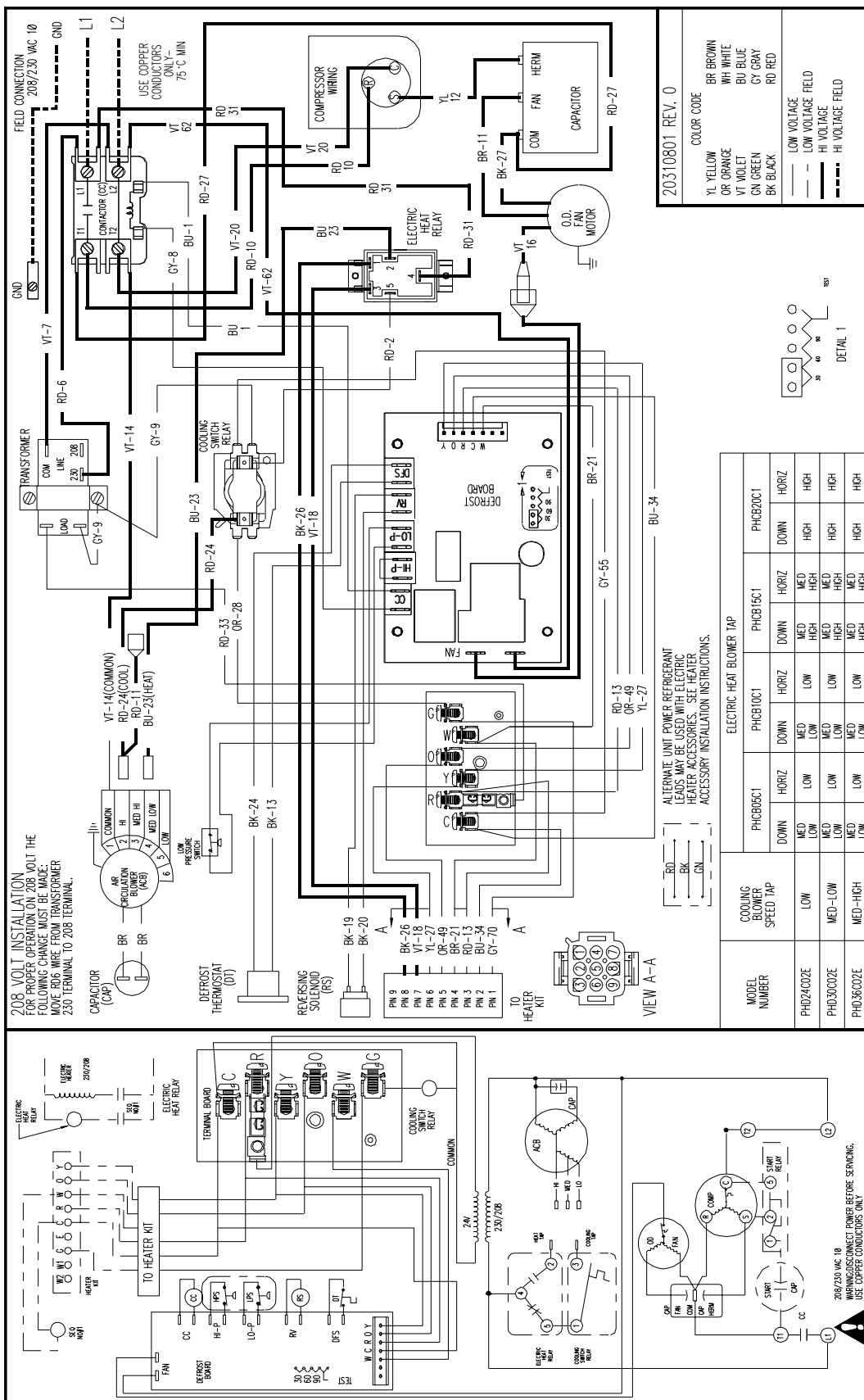
WIRING DIAGRAMS

PHD24-36C02E (Manufacturing Numbers P1235701-03C)

PHD24-36C02E1 (Manufacturing Numbers P1239706-08C)



TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, 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

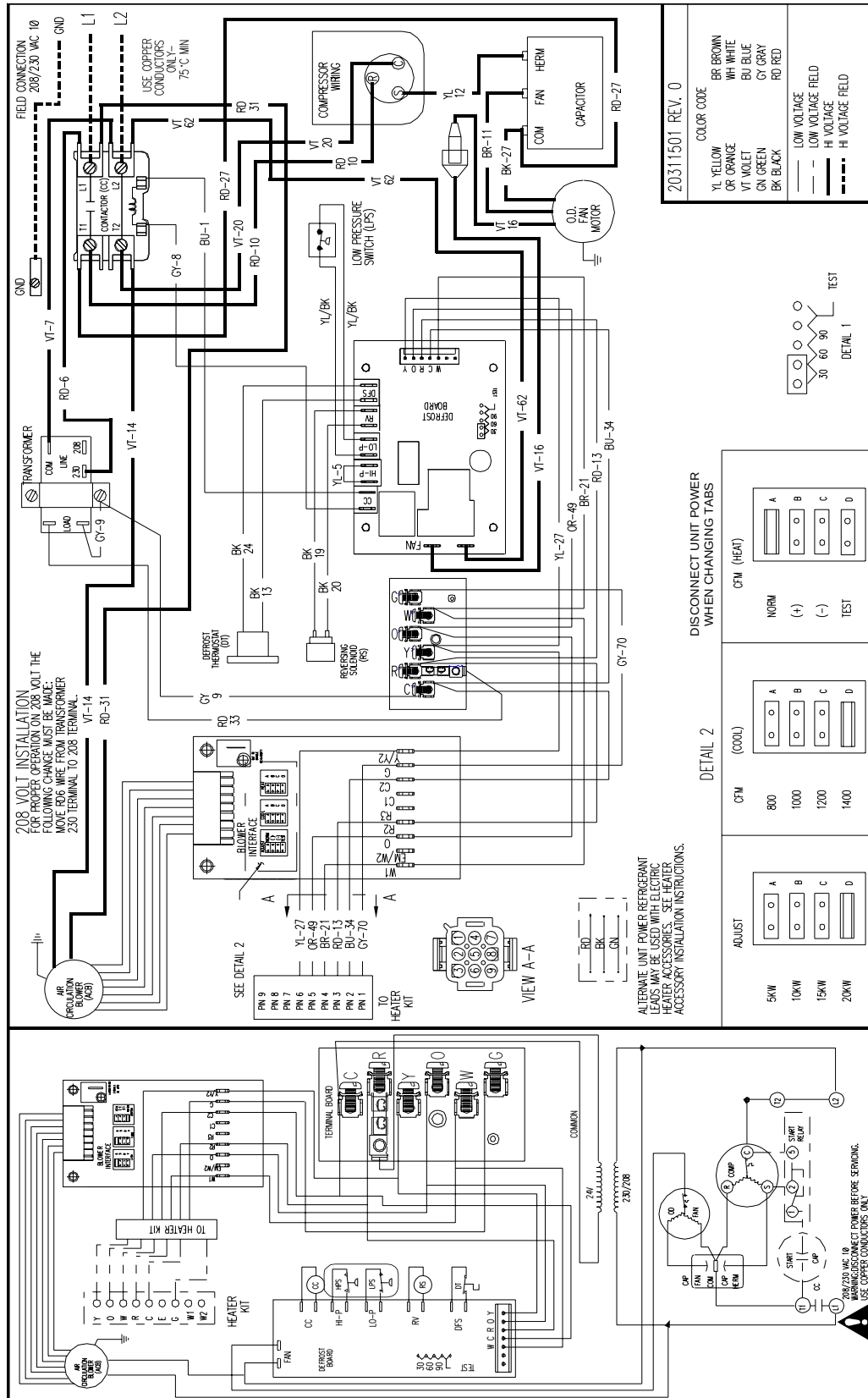
PHD42C02E (Manufacturing Number P1235704C)

PHD42C02E1 (Manufacturing Number P1239709C)



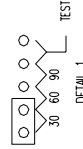
WARNING

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



20311501 REV. 0

COLOR CODE	
YL YELLOW	BR BROWN
OR ORANGE	WH WHITE
VT VIOLET	BU BLUE
CN GREEN	CY GRAY
BK BLACK	RD RED
---	LOW VOLTAGE FIELD
---	LOW VOLTAGE
---	H VOLTAGE FIELD
---	H VOLTAGE



DISCONNECT UNIT POWER WHEN CHANGING TABS

ADJUST	CFM (COOL)	CFM (HEAT)
5KW	A	A
10KW	B	B
15KW	C	C
20KW	D	D
	800	NORM
	1000	(+)
	1200	(-)
	1400	TEST

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

WIRING DIAGRAMS

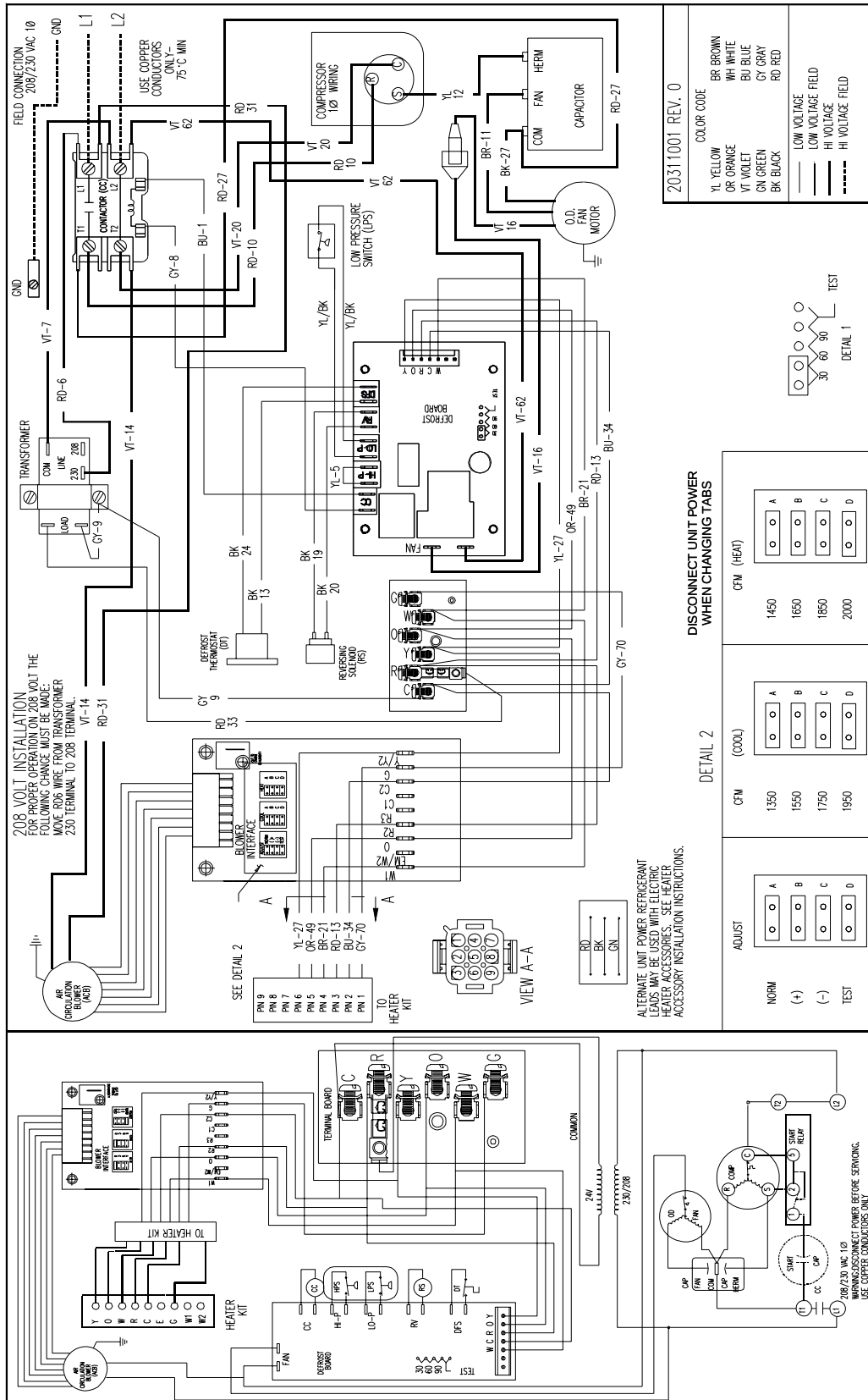
PHD48C02E (Manufacturing Numbers P1234705C)

PHD48C02E1 (Manufacturing Number P1239710C)



WARNING

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, 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

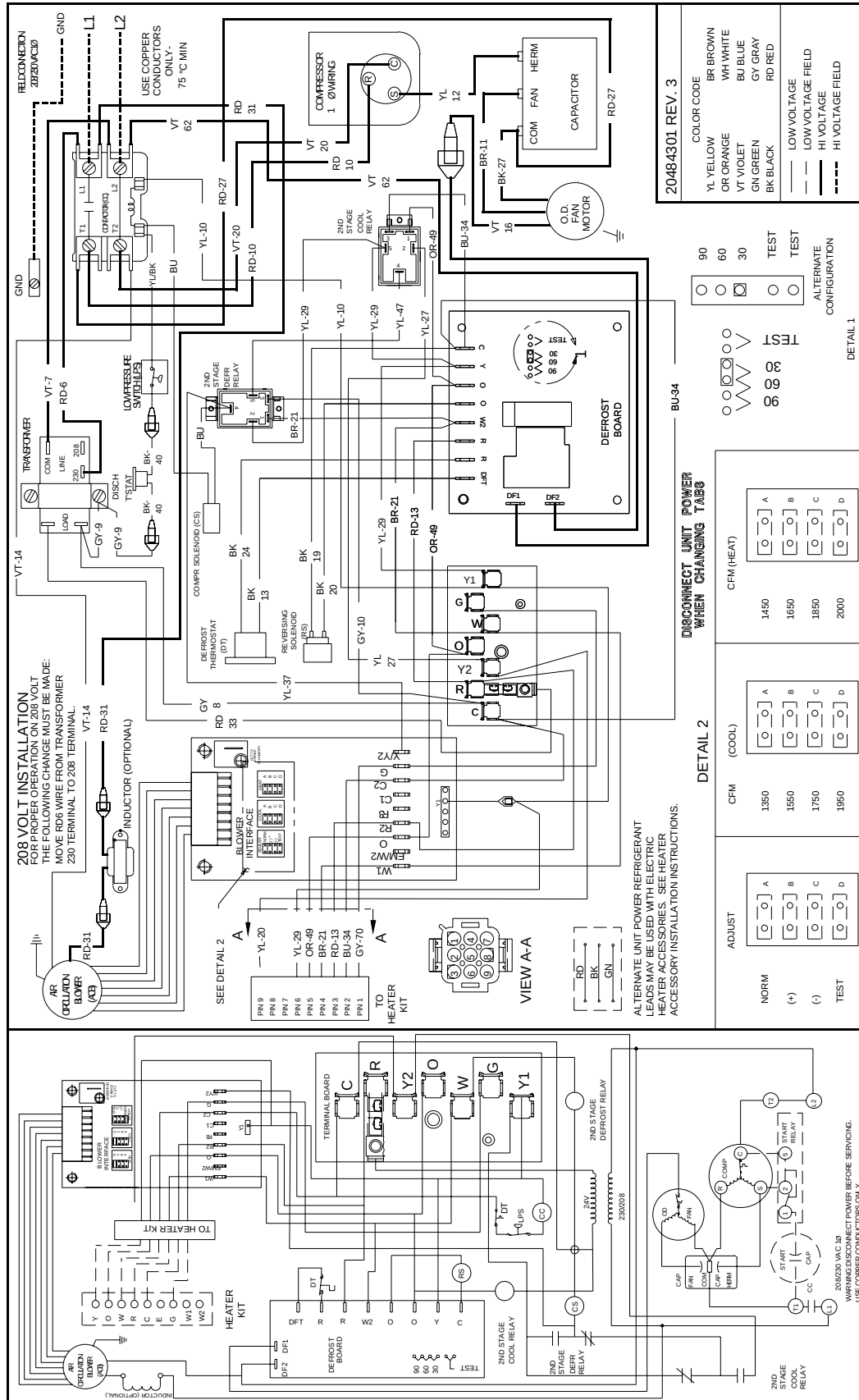
PHD60C02E1 (Manufacturing Number P1239717C)

PHD60C02F1 (Manufacturing Number P1239723C)



WARNING

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, 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

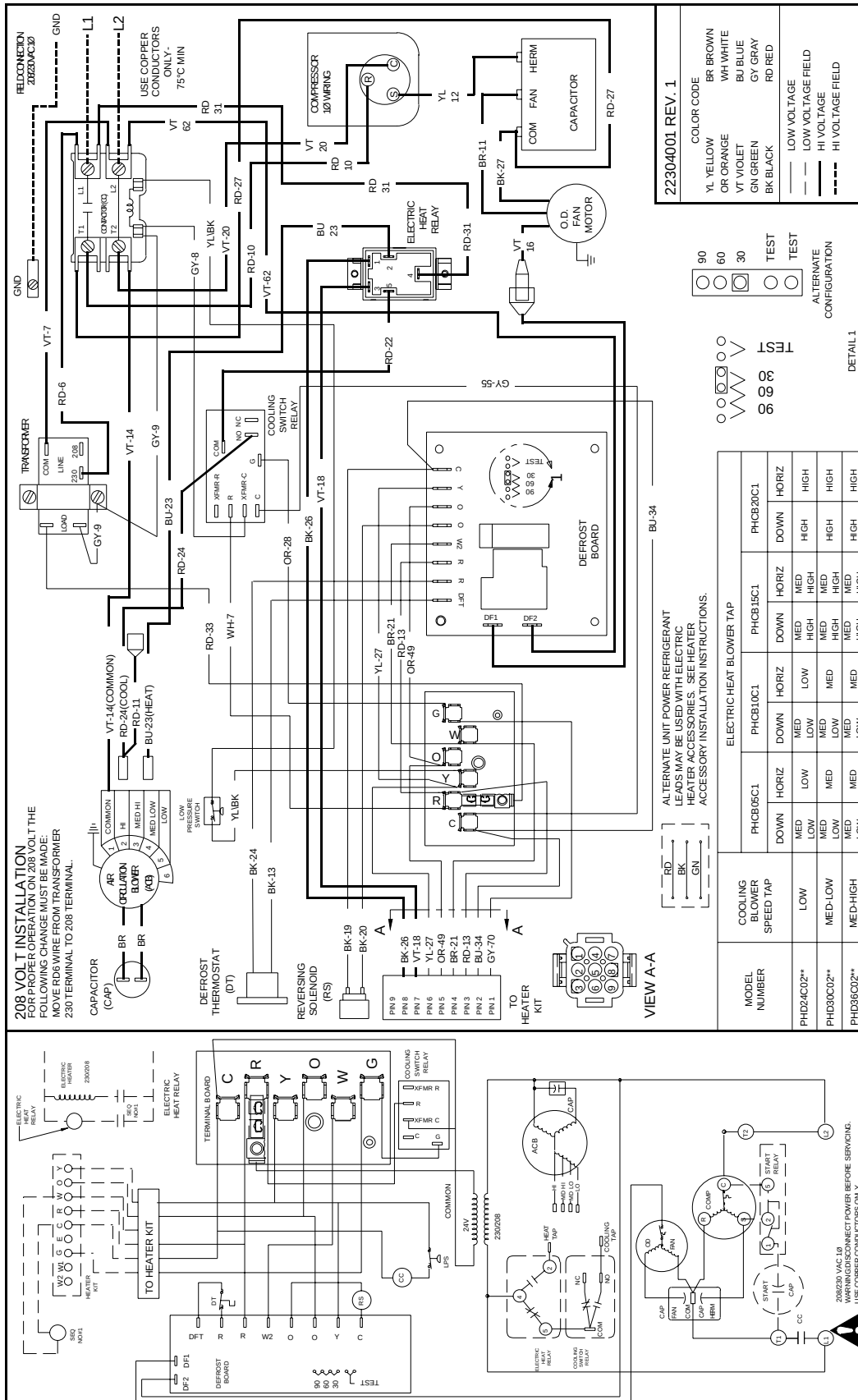
PHD24-36C02E1 (Manufacturing Number P1239712-P1239714C)

PHD24-36C02F1 (Manufacturing Number P1239718-P1239720C)



WARNING

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, 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

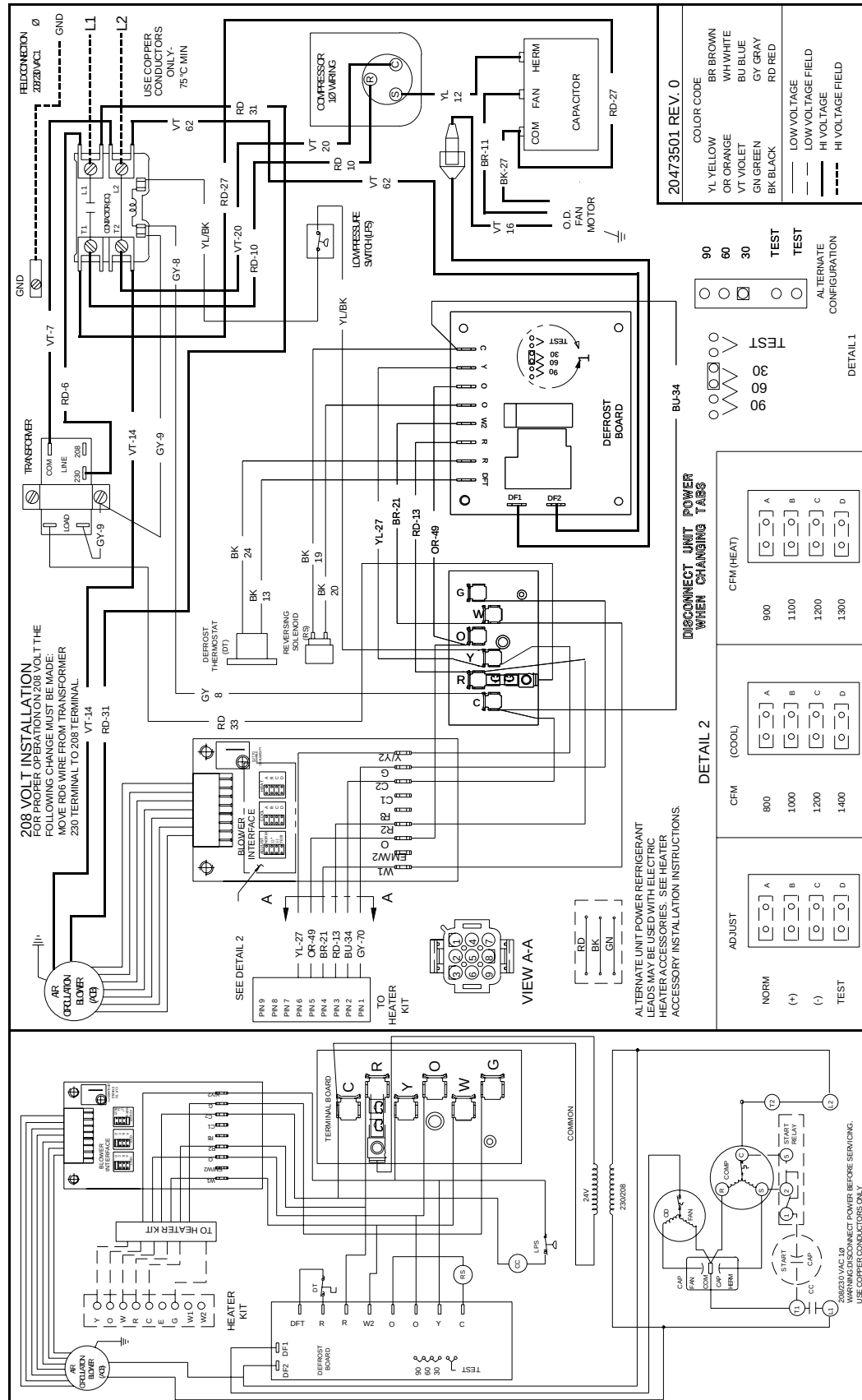
PHD42C02E1 (Manufacturing Number P1239715C)

PHD42C02F1 (Manufacturing Number P1239721C)



WARNING

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, 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.

WARNING

PHD48C02F1 (Manufacturing Number P1239722C)

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

