

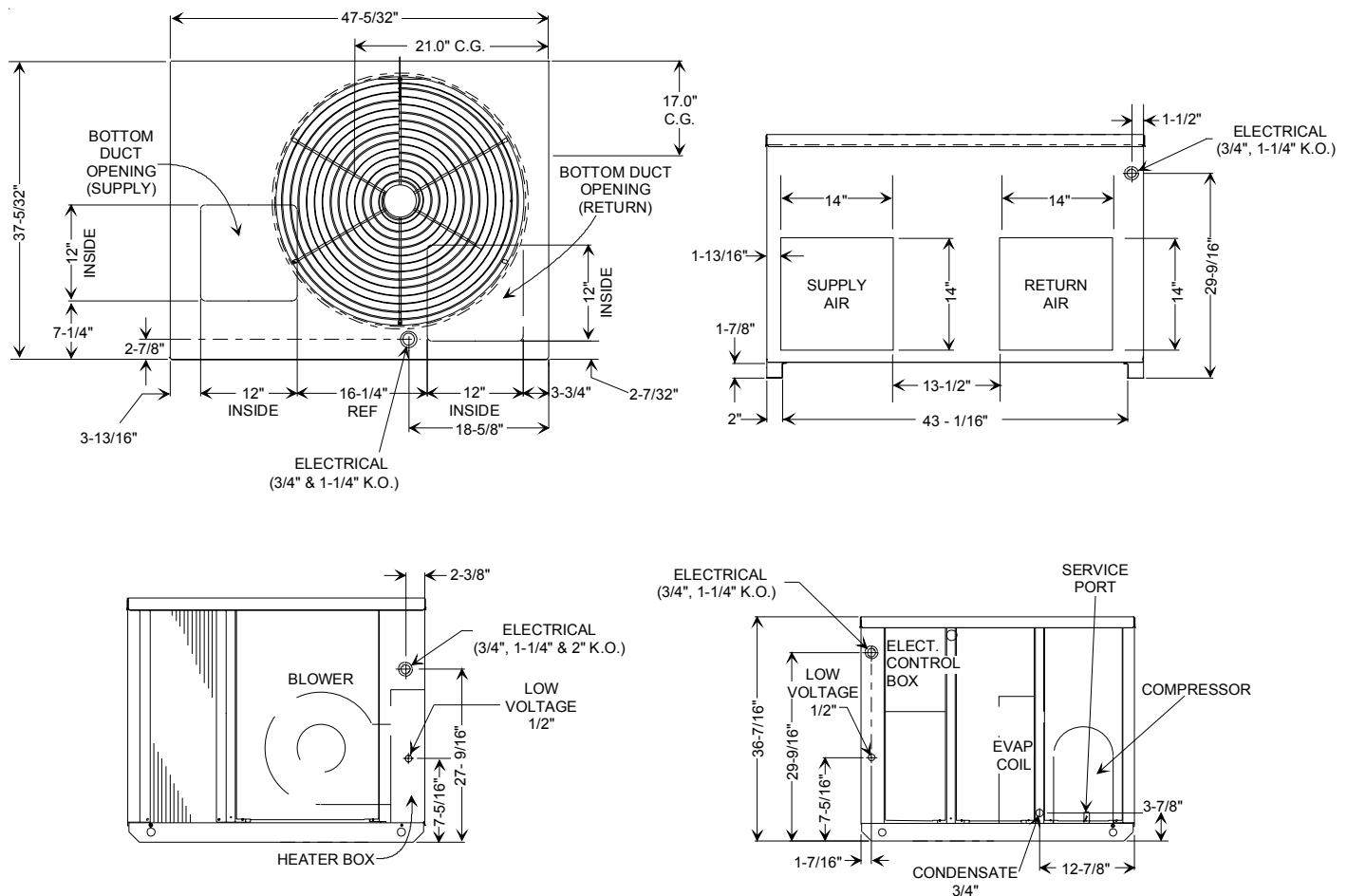


13 SEER PACKAGE HEAT PUMP SPECIFICATION SHEET

SPECIFICATIONS		
		PHD60C02E
COOLING RATING	COOLING CAPACITY, BTUH SEER	56,000 13.00
HEATING RATING	47°/43°F 35°/33°F 17°/15°F HSPF	54,000 44,000 30,000 6.8
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE) UNIT AMPS (TOTAL) MIN CIRCUIT AMPACITY MAX OVERCURRENT PROTECTION	208/230-60-1 34.8 41.0 60
COMPRESSOR	TYPE RATED LOAD AMPS LOCKED ROTOR AMPS	Scroll 24.6 118.0
CONDENSER FAN MOTOR	HORSEPOWER RPM FULL LOAD AMPS LOCKED ROTOR AMPS	1/3 1100 2.4 5.8
CONDENSER FAN	BLADE DIAMETER / NUMBER CFM	22 IN. / 4 3000
CONDENSER COIL	FACE AREA (SQ. FT.) NUMBER OF ROWS FINS PER INCH	12.2 3 20
EVAPORATOR BLOWER MOTOR	HORSEPOWER - # OF SPEEDS FULL LOAD AMPS LOCKED ROTOR AMPS MOTOR SPEED TAP - COOLING RPM	ECM 6.8 ECM VARIABLE VARIABLE
EVAPORATOR BLOWER	DIAMETER X WIDTH RATED SCFM COOLING MAX EXTERNAL STATIC PRESS	10 X 8 1750 .5" wc
EVAPORATOR COIL	FACE AREA (SQ. FT.) NUMBER OF ROWS FINS PER INCH	4.4 5 14
GENERAL INFORMATION	FILTER SIZE (SQ. FT.) DRAIN SIZE (IN.) EXPANSION DEVICE REFRIGERANT CHARGE R-22 (OZ.) POWER SUPPLY ENTRANCE SIZE (IN.) LOW VOLTAGE ENTRANCE SIZE (IN.) SHIPPING WEIGHT LBS. OPERATING WEIGHT LBS.	6.5 3/4 TXV / TXV ---SEE NAMEPLATE--- 1 1/4 3/4 388 375
ACCESSORIES	ROOFCURB - HEAT PUMP ROOFCURB - COMBINATION SXS TO OVER/UNDER KIT SINGLE POINT WIRING KIT ANTI-SHORT CYCLE KIT HORIZONTAL DUCT COVER KIT AMBIENT THERMOSTAT KIT	PRC06A1 PRC08A1 PDTR0U4A/6A SPK09A ASC01A CHK001A ATK01

Installer: Affix literature adjacent to the unit.

DIMENSIONS

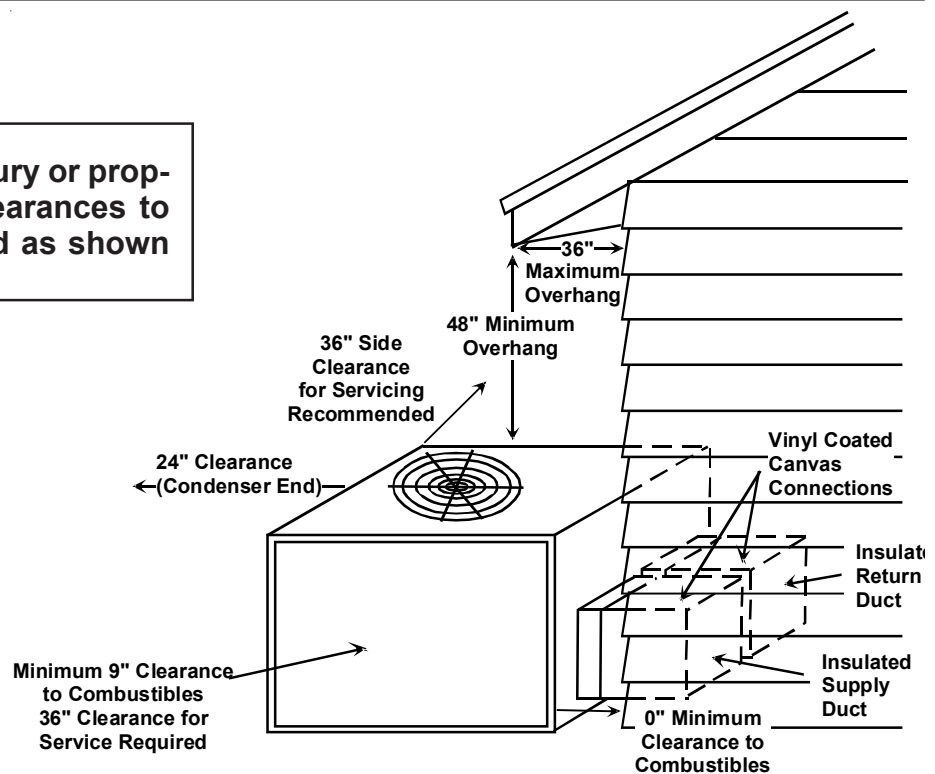


CLEARANCES



WARNING

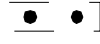
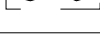
To avoid death, personal injury or property damage due to fire, clearances to combustible surfaces listed as shown must be observed.



DRY COIL DATA

PHD60C02E						
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

PHD60C02E FACTORY SETTING

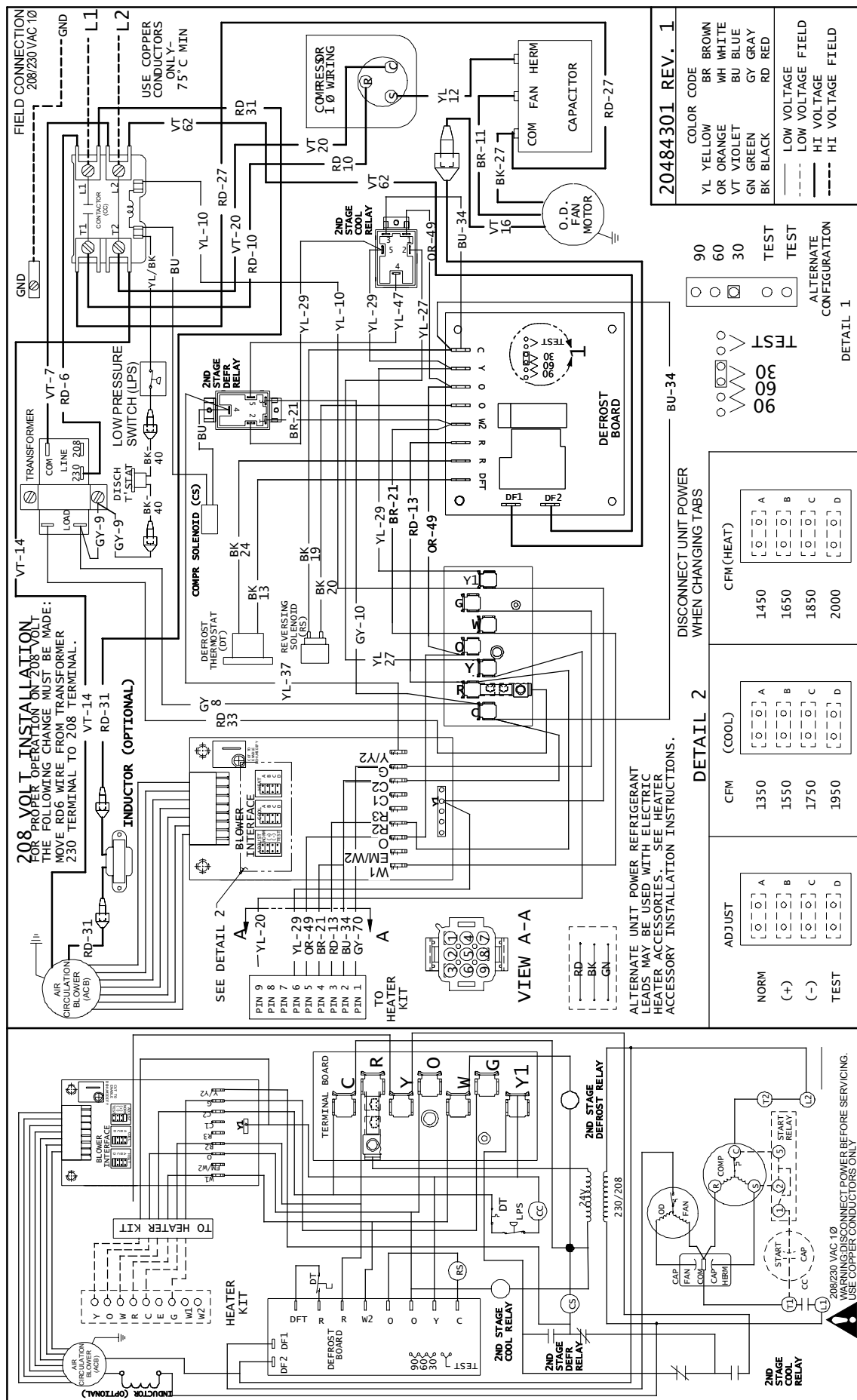
	ADJUST	CFM	(COOL)	CFM	(HEAT)
NORM	 A	1350	 A	1450	 A
(+)	 B	1550	 B	1650	 B
(-)	 C	1750	 C	1850	 C
TEST	 D	1800	 D	2000	 D

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.

WIRING DIAGRAM

WARNING

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



COOLING PERFORMANCE DATA - HIGH STAGE



CAUTION

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

PHD60C02E - HIGH STAGE																																						
IDB*		Outdoor Ambient Temperature (°F)																																				
		65						75																												85		
				Entering Indoor Wet Bulb Temperature (°F)																																		
Airflow	1950	Δ T	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71				
		AMPS	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	17	14	11	-
		HI PR	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	-	22.1	22.6	23.2	-	23.2	23.8	24.5	-	23.2	23.8	24.5	-	23.2	23.8	24.5	-
		LO PR	167	179	189	-	187	201	213	-	213	229	242	-	242	261	275	-	273	293	310	-	273	293	310	-	301	324	342	-	301	324	342	-	301	324	342	-
		Δ T	59	62	68	-	62	66	72	-	64	68	75	-	68	72	78	-	71	75	82	-	71	75	82	-	73	78	85	-	73	78	85	-	73	78	85	-
70	1750	Δ T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	17	15	11	-	17	15	11	-
		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	-	21.9	22.4	23.1	-	23.1	23.6	24.4	-	23.1	23.6	24.4	-	23.1	23.6	24.4	-
		HI PR	166	178	188	-	186	200	211	-	211	227	240	-	241	259	273	-	271	291	308	-	271	291	308	-	299	322	340	-	299	322	340	-	299	322	340	-
		LO PR	58	62	68	-	61	65	71	-	64	68	74	-	67	71	78	-	70	75	82	-	70	75	82	-	73	77	84	-	73	77	84	-	73	77	84	-
		Δ T	19	17	13	-	19	17	13	-	19	17	13	-	20	17	13	-	19	17	13	-	19	17	13	-	18	16	12	-	18	16	12	-	18	16	12	-
1600	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	-	21.6	22.1	22.8	-	22.8	23.3	24.0	-	22.8	23.3	24.0	-	22.8	23.3	24.0	-	
	HI PR	163	175	185	-	183	196	207	-	208	223	236	-	237	255	269	-	266	286	302	-	266	286	302	-	294	316	334	-	294	316	334	-	294	316	334	-	
	LO PR	57	61	66	-	60	64	70	-	63	67	73	-	66	70	77	-	69	74	80	-	69	74	80	-	71	76	83	-	71	76	83	-	71	76	83	-	
	Δ T	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	11	19	18	14	10	
	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	22.3	22.7	23.4	24.2	23.4	24.0	24.7	25.6	23.4	24.0	24.7	25.6	23.4	24.0	24.7	25.6	
75	1950	HI PR	168	181	191	200	189	203	215	224	215	231	244	255	245	263	278	290	275	296	313	326	275	296	313	326	304	327	346	361	304	327	346	361	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	72	76	83	88	74	79	86	91	74	79	86	91	74	79	86	91
		Δ T	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	20	19	15	10
		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	22.1	22.6	23.3	24.1	23.3	23.8	24.6	25.4	23.3	23.8	24.6	25.4	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	273	294	311	324	302	325	343	358	302	325	343	358	302	325	343	358
1600	LO PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	82	88	71	76	82	88	73	78	85	91	73	78	85	91	73	78	85	91	
	Δ T	22	20	17	12	22	21	17	12	23	21	17	12	23	21	17	12	22	21	17	12	22	21	17	12	21	19	16	11	21	19	16	11	21	19	16	11	
	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	21.8	22.3	23.0	23.8	23.0	23.5	24.2	25.0	23.0	23.5	24.2	25.0	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	269	289	305	319	297	320	337	352	297	320	337	352	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	70	74	81	86	72	77	84	89	72	77	84	89	72	77	84	89	
80	1950	Δ T	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	20	18	14	22	20	18	14	22	20	18	14
		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	22.4	22.9	23.6	24.5	23.6	24.2	24.9	25.8	23.6	24.2	24.9	25.8	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	278	299	316	330	307	331	349	364	307	331	349	364	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	72	77	84	89	75	79	87	92	75	79	87	92	75	79	87	92
		Δ T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	22	19	15	22	22	19	15	22	22	19	15
1750	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	22.3	22.8	23.5	24.3	23.5	24.0	24.8	25.6	23.5	24.0	24.8	25.6	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	291	276	297	314	327	305	328	347	362	305	328	347	362	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	72	76	83	89	74	79	86	92	74	79	86	92	74	79	86	92	
	Δ T	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	22	19	16	23	22	19	16	23	22	19	16	
	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	22.5	23.0	23.7	24.5	23.0	23.7	24.4	25.3	23.7	24.4	25.3	23.7	24.4	25.3	23.7	24.4	25.3
1600	HI PR	166	179	189	197	186	201	212	221	212	228	241	251	241	260	274	286	272	292	309	322	272	292	309	322	300	323	341	356	300	323	341	356	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	71	75	82	87	73	78	85	90	73	78	85	90	73	78	85	90	
	Δ T	26	25	22	18	26	25	22	18	26	25	22	18	26	25	22	18	26	25	22	18	26	25	22	18	23	22	19	16	23	22	19	16	23	22	19	16	
	AMPS	16.8	17.1	17.6	18.1	17.9	18.3	18.8	19.5	19.3	19.7	20.3	21.0	20.5	20.9	21.5	22.2	21.6	22.1	22.8	23.6	22.1	22.6	23.3	24.1	22.6	23.3	24.0	24.9	22.6	23.3	24.0	24.9	22.6	23.3	24.0	24.9	
	LO PR	57	61	66	70	60	64	70	75	63	67	73	78	66	70	77	82	70	74	81	86	70	74	81	86	72	77	84	89	72	77	84	89	72	77	84	89	

*Entering Dry Bulb Temperature.

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

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

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

Low and high pressure are measured at gauge port.

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

COOLING PERFORMANCE DATA - LOW STAGE



CAUTION

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

PHD60C02E - LOW STAGE																													
		Outdoor Ambient Temperature (°F)												115															
		65						75						85						95						105			
IDB*	Airflow	Entering Indoor Wet Bulb Temperature (°F)																											
70	1350	Δ T	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71			
		AMPS	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-			
		HI PR	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	-			
		LO PR	150	161	170	-	168	181	191	-	191	206	217	-	218	235	248	-	245	264	279	-	271	292	308	-			
	1250	Δ T	61	65	71	-	65	69	75	-	67	72	78	-	71	75	82	-	74	79	86	-	77	82	89	-			
		AMPS	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-			
		HI PR	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	-			
		LO PR	150	161	170	-	168	181	191	-	191	205	217	-	217	234	247	-	244	263	278	-	270	291	307	-			
	1150	Δ T	61	65	71	-	65	69	75	-	67	71	78	-	71	75	82	-	74	79	86	-	76	81	89	-			
		AMPS	20	17	13	-	20	18	13	-	20	18	13	-	20	18	13	-	20	17	13	-	19	16	12	-			
HI PR		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	-				
LO PR		147	158	167	-	165	177	187	-	188	202	213	-	214	230	243	-	240	259	273	-	266	286	302	-				
75	1350	Δ 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			
		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	Δ 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			
		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	Δ 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			
		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				
80	1350	Δ 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			
		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	Δ 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			
		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	Δ 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			
		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				

*Entering Dry Bulb Temperature.

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

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

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

Low and high pressure are measured at gauge port.

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

NOTES:

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

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