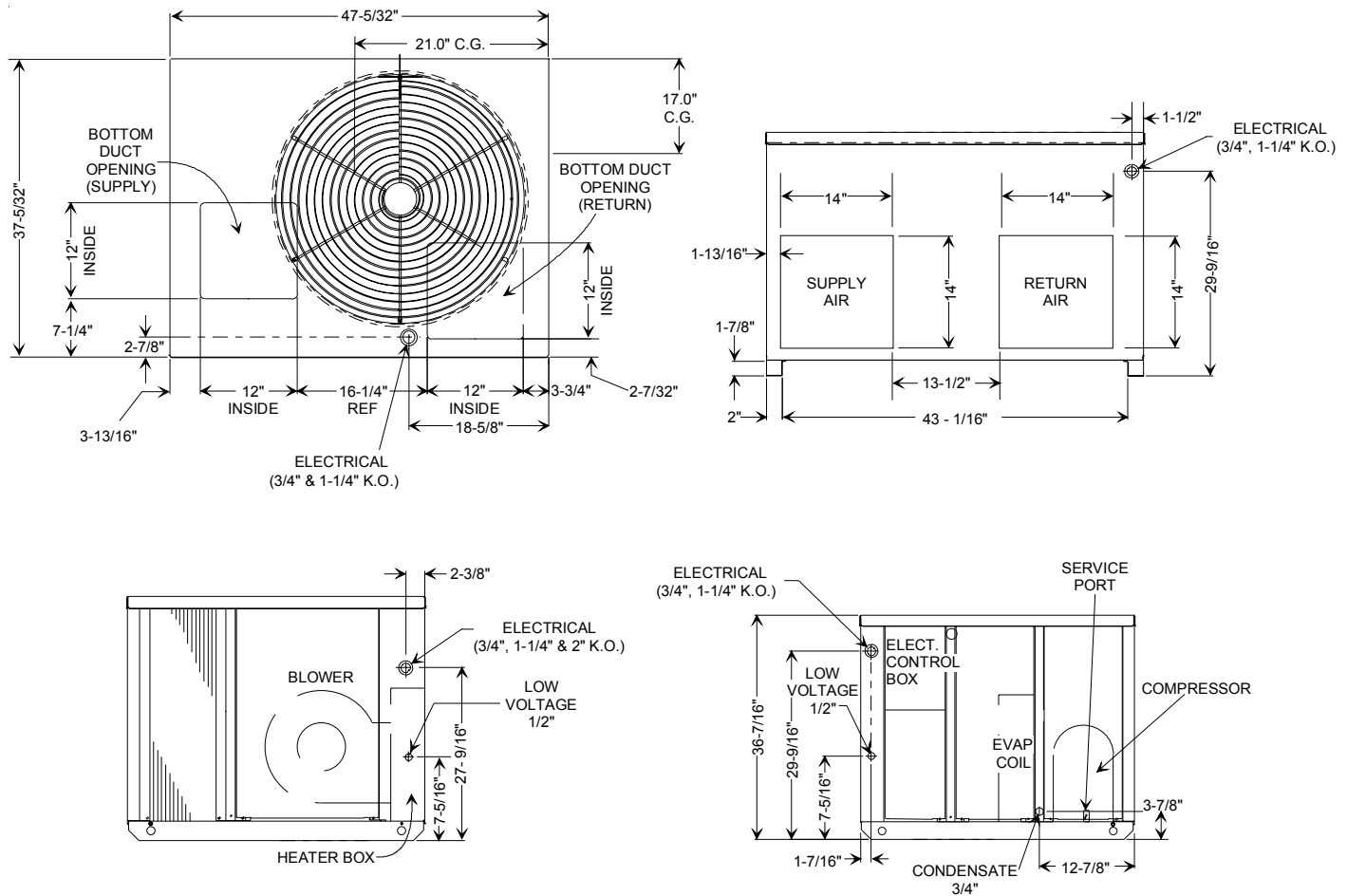


11 & 13 SEER PACKAGE HEAT PUMP SPECIFICATION SHEET

SPECIFICATIONS			
		PHB60C02E	PHD48C02E
COOLING RATING	COOLING CAPACITY, BTUH	57,000	48,000
	SEER	11.00	12.00
HEATING RATING	47°/43°F	57,000	47,000
	35°/33°F	47,000	38,500
	17°/15°F	33,000	26,500
	HSPF	6.8	7.0
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1
	UNIT AMPS (TOTAL)	38	28.4
	MIN CIRCUIT AMPACITY	45.3	33.2
	MAX OVERCURRENT PROTECTION	60	50
COMPRESSOR	TYPE	Scroll	Scroll
	RATED LOAD AMPS	28.9	19.2
	LOCKED ROTOR AMPS	148.0	137.0
CONDENSER FAN MOTOR	HORSEPOWER	1/3	1/3
	RPM	1100	1100
	FULL LOAD AMPS	2.4	2.4
	LOCKED ROTOR AMPS	5.8	5.8
CONDENSER FAN	BLADE DIAMETER / NUMBER	22 IN. / 4	22 IN. / 4
	CFM	3000	3000
CONDENSER COIL	FACE AREA (SQ. FT.)	12.2	12.2
	NUMBER OF ROWS	2	2
	FINS PER INCH	18	18
EVAPORATOR BLOWER MOTOR	HORSEPOWER - # OF SPEEDS	ECM	ECM
	FULL LOAD AMPS	6.8	6.8
	LOCKED ROTOR AMPS	ECM	ECM
	MOTOR SPEED TAP - COOLING	VARIABLE	VARIABLE
	RPM	VARIABLE	VARIABLE
EVAPORATOR BLOWER	DIAMETER X WIDTH	10 X 8	10 X 8
	RATED SCFM COOLING	1750	1550
	MAX EXTERNAL STATIC PRESS	.5" wc	.5" wc
EVAPORATOR COIL	FACE AREA (SQ. FT.)	4.4	4.4
	NUMBER OF ROWS	4	4
	FINS PER INCH	14	14
GENERAL INFORMATION	FILTER SIZE (SQ. FT.)	6.5	5.5
	DRAIN SIZE (IN.)	3/4	3/4
	EXPANSION DEVICE	TXV / TXV	TXV / TXV
	REFRIGERANT CHARGE R-22 (OZ.)	-----SEE NAMEPLATE-----	
	POWER SUPPLY ENTRANCE SIZE (IN.)	1 1/4	1 1/4
	LOW VOLTAGE ENTRANCE SIZE (IN.)	3/4	3/4
	SHIPPING WEIGHT LBS.	383	378
	OPERATING WEIGHT LBS.	370	365
ACCESSORIES	ROOFCURB - HEAT PUMP	PRC06A1	PRC06A1
	ROOFCURB - COMBINATION	PRC08A1	PRC08A1
	SXS TO OVER/UNDER KIT	PDTR0U4A/6A	PDTR0U4A/6A
	SINGLE POINT WIRING KIT	SPK09A	SPK08A
	ANTI-SHORT CYCLE KIT	ASC01A	ASC01A
	HORIZONTAL DUCT COVER KIT	CHK001A	CHK001A
	AMBIENT THERMOSTAT KIT	ATK01	ATK01

Installer: Affix all pertinent literature adjacent to the unit.

DIMENSIONS

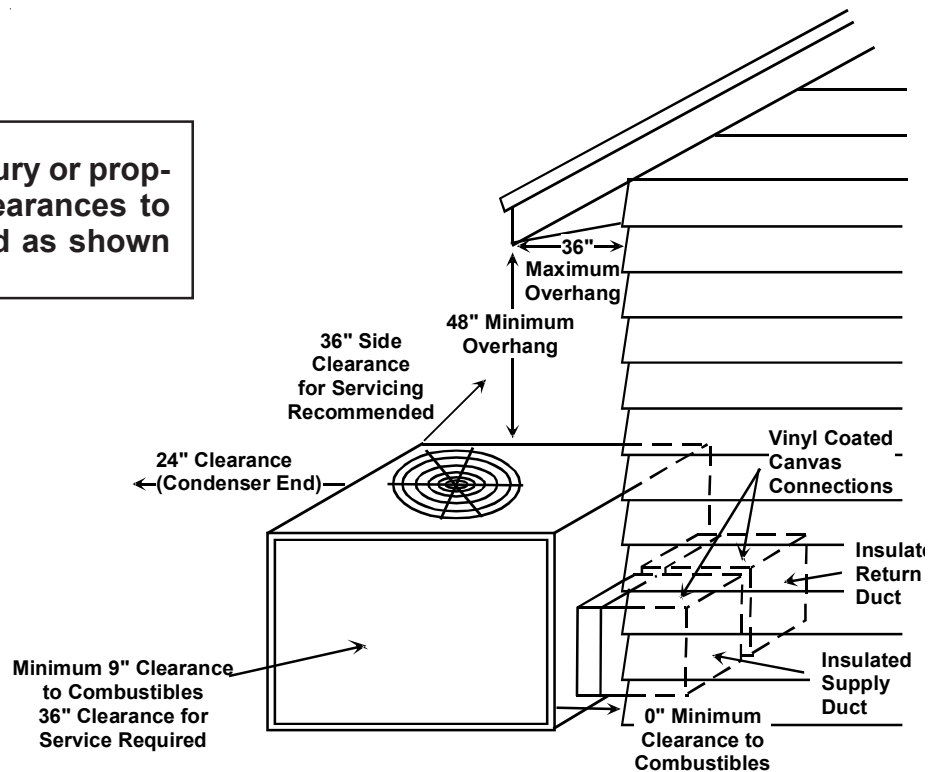


CLEARANCES



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

PHB60C02E / PHD48C02E					
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

PHB60C02E FACTORY SETTING

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

IMPORTANT NOTE: Disconnect 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.

PHD48C02E FACTORY SETTING

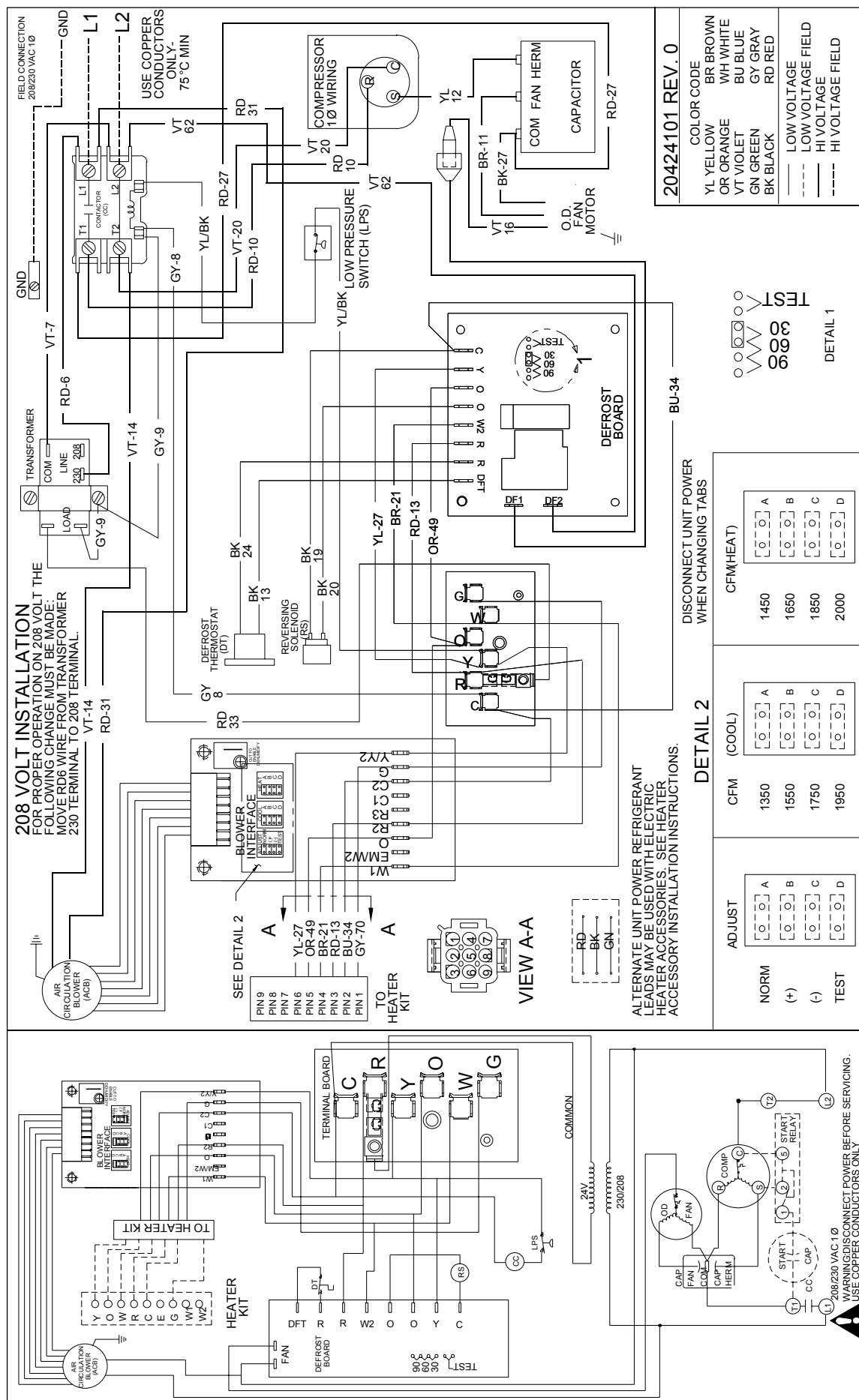
	ADJUST	CFM	(COOL)	CFM	(HEAT)
NORM	 A	1350	 A	1450	 A
(+)	 B	1550	 B	1650	 B
(-)	 C	1750	 C	1850	 C
TEST	 D	1950	 D	2000	 D

IMPORTANT NOTE: Disconnect 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 - PHB60C02E



CAUTION

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

PHB60C02E																													
Outdoor Ambient Temperature (°F)																													
65					75					85					95					105					115				
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71				
70	Delta T	17	15	11	-	17	15	11	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-				
	AMPS	19.9	20.4	21.0	-	21.4	21.8	22.5	-	23.0	23.5	24.3	-	24.5	25.0	25.8	-	25.9	26.5	27.3	-	27.3	27.9	28.8	-				
	HI PR	173	186	197	-	194	209	221	-	221	238	251	-	251	271	286	-	283	304	321	-	313	336	355	-				
	LO PR	57	61	67	-	61	64	70	-	63	67	73	-	66	70	77	-	69	74	80	-	72	76	83	-				
70	Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-				
	AMPS	19.8	20.2	20.8	-	21.2	21.7	22.3	-	22.8	23.3	24.1	-	24.3	24.8	25.6	-	25.7	26.3	27.1	-	27.1	27.7	28.6	-				
	HI PR	171	184	195	-	192	207	218	-	219	235	248	-	249	268	283	-	280	301	318	-	309	333	352	-				
	LO PR	57	60	66	-	60	64	70	-	62	66	72	-	65	70	76	-	69	73	80	-	71	76	82	-				
70	Delta T	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	15	12	-				
	AMPS	19.5	19.9	20.5	-	20.9	21.4	22.0	-	22.5	23.0	23.7	-	23.9	24.5	25.2	-	25.3	25.9	26.7	-	26.7	27.3	28.1	-				
	HI PR	168	181	191	-	189	203	215	-	215	231	244	-	245	263	278	-	275	296	313	-	304	327	346	-				
	LO PR	56	59	65	-	59	63	68	-	61	65	71	-	64	68	75	-	67	72	78	-	70	74	81	-				
75	Delta T	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	10	19	17	14	10				
	AMPS	20.1	20.5	21.1	21.8	21.6	22.0	22.7	23.4	23.2	23.7	24.5	25.3	24.7	25.2	26.0	26.9	26.1	26.7	27.5	28.5	27.6	28.2	29.1	30.1				
	HI PR	175	188	199	207	196	211	223	232	223	240	253	264	254	273	289	301	286	308	325	339	316	340	359	374				
	LO PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	74	81	87	72	77	84	90				
75	Delta T	21	19	16	11	21	20	16	11	21	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10				
	AMPS	19.9	20.4	21.0	21.7	21.4	21.8	22.5	23.2	23.0	23.5	24.3	25.1	24.5	25.0	25.8	26.7	25.9	26.5	27.3	28.3	27.3	27.9	28.8	29.8				
	HI PR	173	186	197	205	194	209	221	230	221	238	251	262	252	271	286	298	283	304	322	335	313	336	355	371				
	LO PR	57	61	67	71	61	64	70	75	63	67	73	78	66	70	77	82	69	74	81	86	72	76	83	89				
75	Delta T	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	12	21	19	16	11				
	AMPS	19.7	20.1	20.7	21.4	21.1	21.5	22.2	22.9	22.7	23.2	23.9	24.7	24.1	24.7	25.4	26.3	25.5	26.1	26.9	27.8	26.9	27.5	28.4	29.4				
	HI PR	170	183	193	202	191	205	217	226	217	234	247	257	247	266	281	293	278	299	316	330	307	331	349	364				
	LO PR	56	60	65	70	60	63	69	74	62	66	72	77	65	69	76	80	68	72	79	84	70	75	82	87				
80	Delta T	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	21	19	15	21	20	17	14				
	AMPS	20.3	20.7	21.3	22.0	21.7	22.2	22.9	23.6	23.4	23.9	24.7	25.5	24.9	25.4	26.2	27.1	26.3	26.9	27.8	28.8	27.8	28.4	29.3	30.3				
	HI PR	177	190	201	209	198	213	225	235	225	242	256	267	257	276	292	304	289	311	328	342	319	343	362	378				
	LO PR	59	62	68	72	62	66	72	76	64	68	75	79	67	72	78	83	71	75	82	87	73	78	85	90				
80	Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15				
	AMPS	20.1	20.5	21.1	21.8	21.6	22.0	22.7	23.4	23.2	23.7	24.5	25.3	24.7	25.2	26.0	26.9	26.1	26.7	27.5	28.5	26.7	28.2	29.1	30.1				
	HI PR	175	188	199	207	196	211	223	232	223	240	253	264	254	273	289	301	286	308	325	339	316	340	359	374				
	LO PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	74	81	87	72	77	84	90				
80	Delta T	25	23	20	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	16	23	22	19	15				
	AMPS	19.8	20.3	20.8	21.5	21.3	21.7	22.4	23.1	22.9	23.4	24.1	24.9	24.3	24.9	25.6	26.5	25.8	26.3	27.1	28.1	27.2	27.8	28.6	29.6				
	HI PR	172	185	195	204	193	207	219	229	219	236	249	260	250	269	284	296	281	302	319	333	310	334	353	368				
	LO PR	57	61	66	70	60	64	70	74	63	67	73	77	66	70	76	81	69	73	80	85	71	76	83	88				

*Entering Dry Bulb Temperature.

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

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

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

Low and high pressure are measured at gauge port.

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

COOLING PERFORMANCE DATA - PHD42C02E



CAUTION

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

PHD48C02E																											
		Outdoor Ambient Temperature (°F)																									
		65				75				85				95				105				115					
		Entering Indoor Wet Bulb Temperature (°F)																									
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
70	Delta T	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	15	13	10	-		
	AMPS	15.4	15.8	16.2	-	16.5	16.9	17.3	-	17.8	18.1	18.7	-	18.8	19.3	19.8	-	19.9	20.4	21.0	-	21.0	21.5	22.1	-		
	HI PR	163	175	185	-	183	197	208	-	208	224	236	-	237	255	269	-	267	287	303	-	294	317	335	-		
	LO PR	59	63	69	-	62	66	73	-	65	69	75	-	68	73	79	-	71	76	83	-	74	79	86	-		
	Delta T	17	15	11	-	17	15	11	-	17	15	11	-	18	15	12	-	17	15	11	-	16	14	11	-		
70	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	-		
	Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-		
	AMPS	15.1	15.4	15.9	-	16.2	16.5	17.0	-	17.4	17.8	18.3	-	18.4	18.8	19.4	-	19.5	19.9	20.5	-	20.5	21.0	21.6	-		
70	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	Delta T	18	17	14	10	19	17	14	10	19	17	14	10	19	17	14	10	19	17	14	10	17	16	13	9	
		AMPS	15.6	15.9	16.3	16.9	16.6	17.0	17.5	18.1	17.9	18.3	18.8	19.5	19.0	19.4	20.0	20.7	20.1	20.5	21.2	21.9	21.2	21.6	22.3	23.1	
		HI PR	165	177	187	195	185	199	210	219	210	226	239	249	239	258	272	284	269	290	306	319	297	320	338	353	
LO PR		60	64	69	74	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	89	75	79	87	92		
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		
75	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		
	Delta T	21	19	16	11	21	19	16	11	21	20	16	11	21	20	16	11	21	19	16	11	20	18	15	10		
	AMPS	15.2	15.5	16.0	16.5	16.3	16.6	17.1	17.7	17.5	17.9	18.4	19.0	18.6	19.0	19.6	20.2	19.6	20.1	20.7	21.4	20.7	21.2	21.8	22.6		
75	HI PR	160	172	182	190	180	194	204	213	205	220	232	242	233	251	265	276	262	282	298	311	290	312	329	343		
	LO PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90		
	80	Delta T	21	20	17	14	21	20	17	14	21	20	18	14	21	20	18	14	21	20	17	14	19	19	16	13	
		AMPS	15.7	16.0	16.5	17.0	16.8	17.1	17.6	18.2	18.1	18.4	19.0	19.6	19.2	19.6	20.2	20.9	20.3	20.7	21.3	22.1	21.4	21.8	22.5	23.3	
		HI PR	166	179	189	197	187	201	212	221	212	228	241	252	242	260	275	287	272	293	309	322	300	323	341	356	
LO PR		60	64	70	75	64	68	74	79	66	70	77	82	70	74	81	86	73	78	85	90	75	80	88	93		
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		
80	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		
	Delta T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	22	21	18	15		
	AMPS	15.3	15.7	16.1	16.6	16.4	16.8	17.3	17.8	17.7	18.0	18.6	19.2	18.7	19.1	19.7	20.4	19.8	20.2	20.9	21.6	20.9	21.3	22.0	22.7		
80	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		
	Delta T	21	20	17	14	21	20	17	14	21	20	18	14	21	20	18	14	21	20	17	14	19	19	16	13		
	AMPS	15.7	16.0	16.5	17.0	16.8	17.1	17.6	18.2	18.1	18.4	19.0	19.6	19.2	19.6	20.2	20.9	20.3	20.7	21.3	22.1	21.4	21.8	22.5	23.3		
	HI PR	166	179	189	197	187	201	212	221	212	228	241	252	242	260	275	287	272	293	309	322	300	323	341	356		
80	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		
	Delta T	22	21	18	15	22	22	19	15	22	22	19	15	23	22	19	15	22	21	19	15	21	20	17	14		
	AMPS	15.6	15.9	16.3	16.9	16.6	17.0	17.5	18.1	17.9	18.3	18.8	19.5	19.0	19.4	20.0	20.7	20.1	20.5	21.2	21.9	21.2	21.6	22.3	23.1		
	HI PR	165	177	187	195	185	199	210	219	210	226	239	249	239	258	272	284	269	290	306	319	298	320	338	353		
	LO PR	60	64	69	74	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	89	75	79	87	92		
80	Delta T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	22	21	18	15		
	AMPS	15.3	15.7	16.1	16.6	16.4	16.8	17.3	17.8	17.7	18.0	18.6	19.2	18.7	19.1	19.7	20.4	19.8	20.2	20.9	21.6	20.9	21.3	22.0	22.7		
	HI PR	162	174	184	192	182	195	206	215	207	222	235	245	235	253	267	279	265	285	301	314	292	315	332	347		
	LO PR	59	62	68	73	62	66	72	77	64	69	75	80	68	72	79	84	71	75	82	88	73	78	85	91		
	Delta T	21	20	17	14	21	20	17	14	21	20	18	14	21	20	18	14	21	20	17	14	19	19	16	13		
80	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		
	Delta T	22	21	18	15	22	22	19	15	22	22	19	15	23	22	19	15	22	21	19	15	21	20	17	14		
	AMPS	15.6	15.9	16.3	16.9	16.6	17.0	17.5	18.1	17.9	18.3	18.8	19.5	19.0	19.4	20.0	20.7	20.1	20.5	21.2	21.9	21.2	21.6	22.3	23.1		
80	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		
	Delta T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	22	21	18	15		
	AMPS	15.3	15.7	16.1	16.6	16.4	16.8	17.3	17.8	17.7	18.0	18.6	19.2	18.7	19.1	19.7	20.4	19.8	20.2	20.9	21.6	20.9	21.3	22.0	22.7		

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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