

Heating & Air Conditioning
Amana
LASTS AND LASTS AND LASTS.™

Specification Sheet



13 SEER

Cooling Efficiency:
23,600 - 56,000 BTUH

Heating Efficiency:
24,000 - 54,000 BTUH



Asure
EXTENDED SERVICE PLAN



PHD TempAssure™

Packaged Heat Pump

The Amana® brand PHD TempAssure™ Packaged Heat Pump offers outstanding year-round heating and cooling comfort. Featuring a high-efficiency Copeland® scroll compressor, the unit is equipped with sound blankets for extra-quiet operation. The PHD's compact design is ideal for ground-level or rooftop applications.

Standard Features

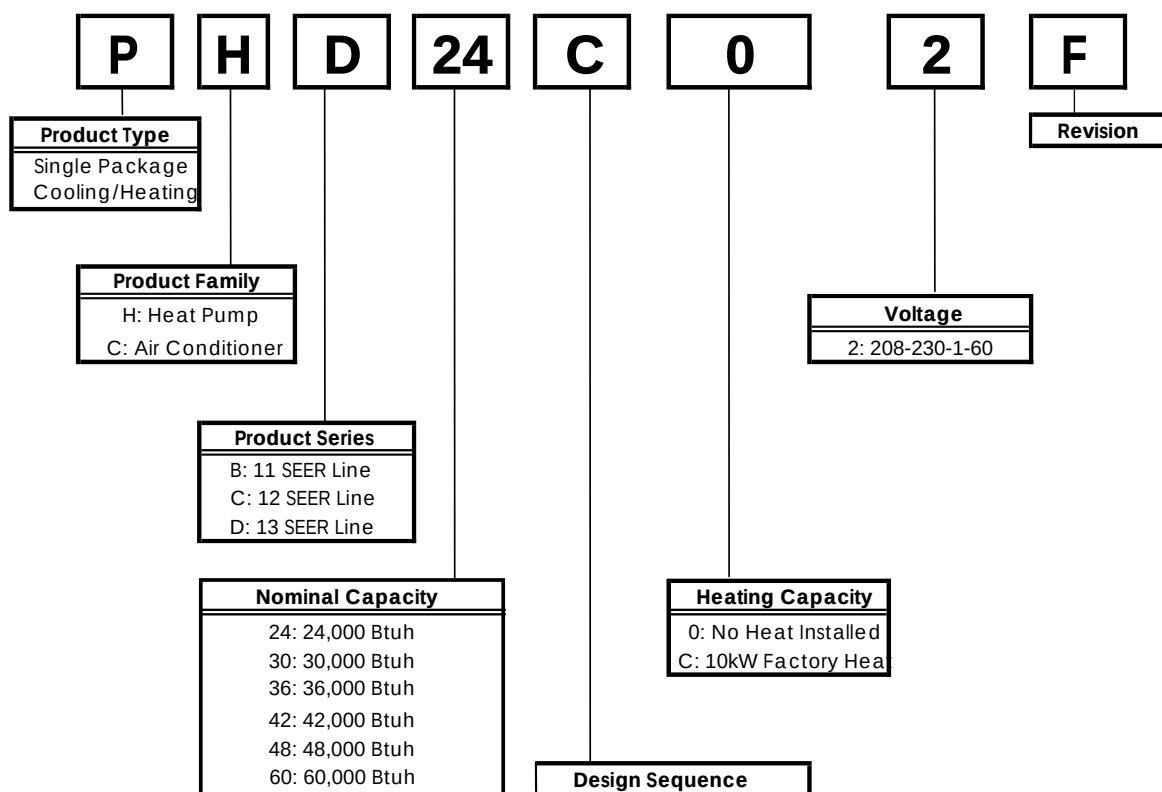
- Energy-efficient heating (7.1 HSPF)
- High-efficiency Copeland® scroll compressors with sound blankets
- Horizontal supply and return are easily convertible to down-discharge airflow
- Permanently lubricated outdoor fan motor with vertical air discharge
- Positive-flow condensate drain pan (external trap supplied with unit)
- Bottom, side, and back electrical connections; flexible set-up for left or right wiring
- Excellent serviceability via internal gauge ports, convenient control box, compressor, and condenser fan locations and via the single-piece, easy-to-remove top cover
- Round duct connections with 3" collars or flange connection for 16" x 16" duct work
- UL and CUL listed
- ARI Certified

Cabinet Features

- Durable cabinet made of tough exterior, pre-paint sheet metal
- Corrosion-resistant coated screws
- Attractive, two-tone gray exterior
- Factory-installed base rails provide strength, easier handling, air circulation under the unit, and lifting-lug holes for rooftop installations
- When properly anchored, meets the 2001 Florida Building Code unit integrity requirements for hurricane-type winds

Specification Sheet

Nomenclature



Cooling Performance, ACCA and TVA Conditions (95° Ambient, 75° ID DB, 63° ID WB)

Model	CFM	Total BTUH	Sensible BTUH	Latent BTUH	Total Watts
PHD24C02F1	860	22,200	17,100	5,100	2,000
PHD30C02F1	980	27,200	20,600	6,600	2,700
PHD36C02F1	1,170	31,500	24,200	7,300	3,100
PHD42C02F1	1,250	38,000	28,400	9,600	3,700
PHD48C02F1	1,550	44,500	31,900	12,600	4,500
PHD60C02F1	1,750	51,900	38,400	13,500	5,100

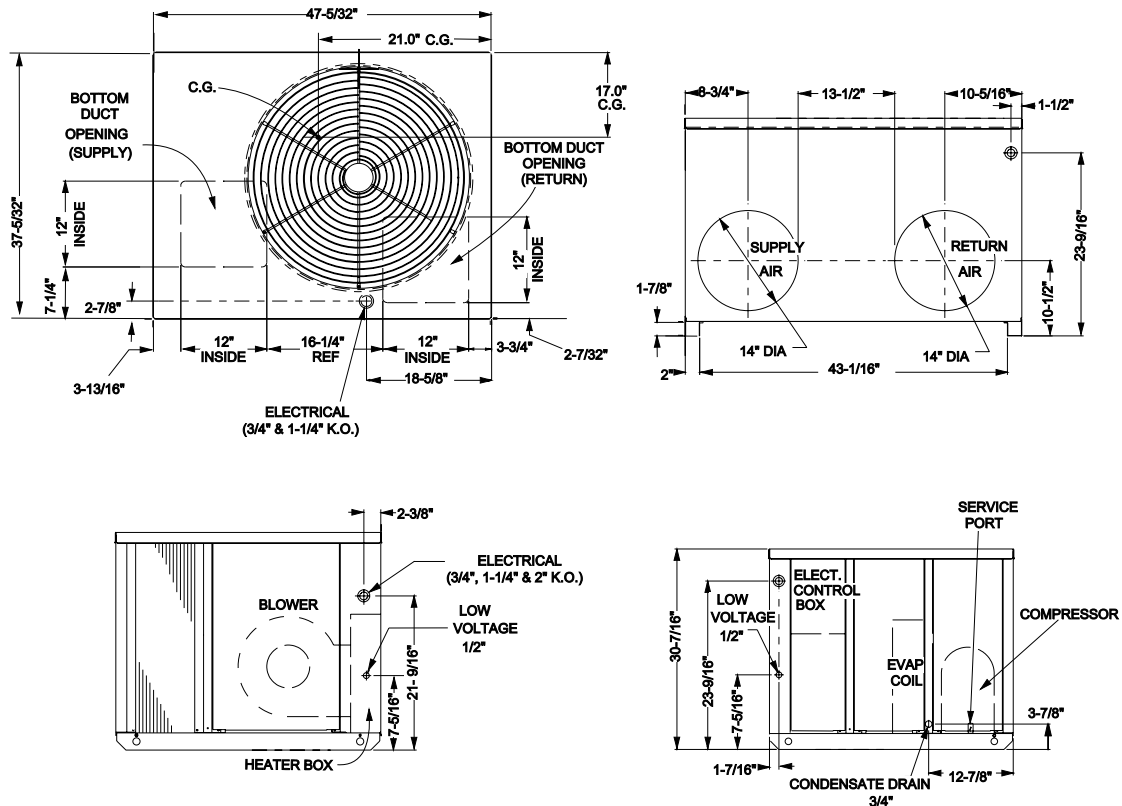
Specifications

	PHD24C02F1	PHD30C02F1	PHD36C02F1	PHD42C02F1	PHD48C02F1	PHD60C02F1
Cooling Capacity (Btuh)	24,000	29,400	34,000	40,000	48,000	56,000
Heating Capacity (47° F)	23,600	29,400	33,000	40,000	47,000	54,000
SEER	13.05	13.05	13.05	13.05	12.00	13.00
HSPF (Region IV)	7.10	7.10	7.10	7.10	7.00	6.8
COP (47° / 17°)	3.24 / 1.97	3.22 / 1.97	3.25 / 1.93	3.17 / 1.94	3.02 / 2.00	2.75 / 1.75
Compressor						
Rated Load Amps	11.4	15	16.4	20	19.2	24.6
Locked Rotor Amps	56	72.5	83	104	137	118
Evaporator Coil						
Face Area (sq. ft.)	3.2	3.2	4.4	4.4	4.4	4.4
Rows Deep	3	4	4	4	4	5
Fins/Inch	14	14	14	14	14	14
Evaporator Blower (D x W)	10 x 8	10 x 8	10 x 8	10 x 8	10 x 8	10X8
Evaporator Motor						
Horsepower (No. of Spds)	1/3 (4)	1/3 (4)	1/3 (4)	ECM	ECM	ECM
Rated Load Amps Maximum	2.6	2.6	2.6	4.3	6.8	6.8
Locked Rotor Amps Maximum	4.2	4.2	4.2	ECM	ECM	ECM
Condenser Coil						
Face Area (sq. ft.)	10.2	10.2	12.4	12.4	12.2	12.2
Rows Deep	2	2	2	2	2	3
Fins/Inch	20	20	20	20	20	20
Condenser Fan						
Diameter (inches)	22	22	22	22	22	22
CFM	2200	2200	2200	2200	3000	3000
Condenser Fan Motor						
HorsePower	1/5	1/5	1/5	1/5	1/3	1/3
Rated Load Amps	1.3	1.3	1.3	1.3	2.4	2.4
Drain Line Size	3/4	3/4	3/4	3/4	3/4	3/4
Refrigerant Charge (R22)	Refer to Unit Nameplate for current charge.					
Power Supply (w/o heaters)	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
Max. Overcurrent Protection	25	30	30	35	50	60
Minimum Circuit Ampacity	18.2	22.7	24.2	28.9	33.2	41.0
Decibels	76.6	76.7	77.2	77.0	85.0	85.1
Shipping Weight (lbs.)	315	324	365	373	378	388

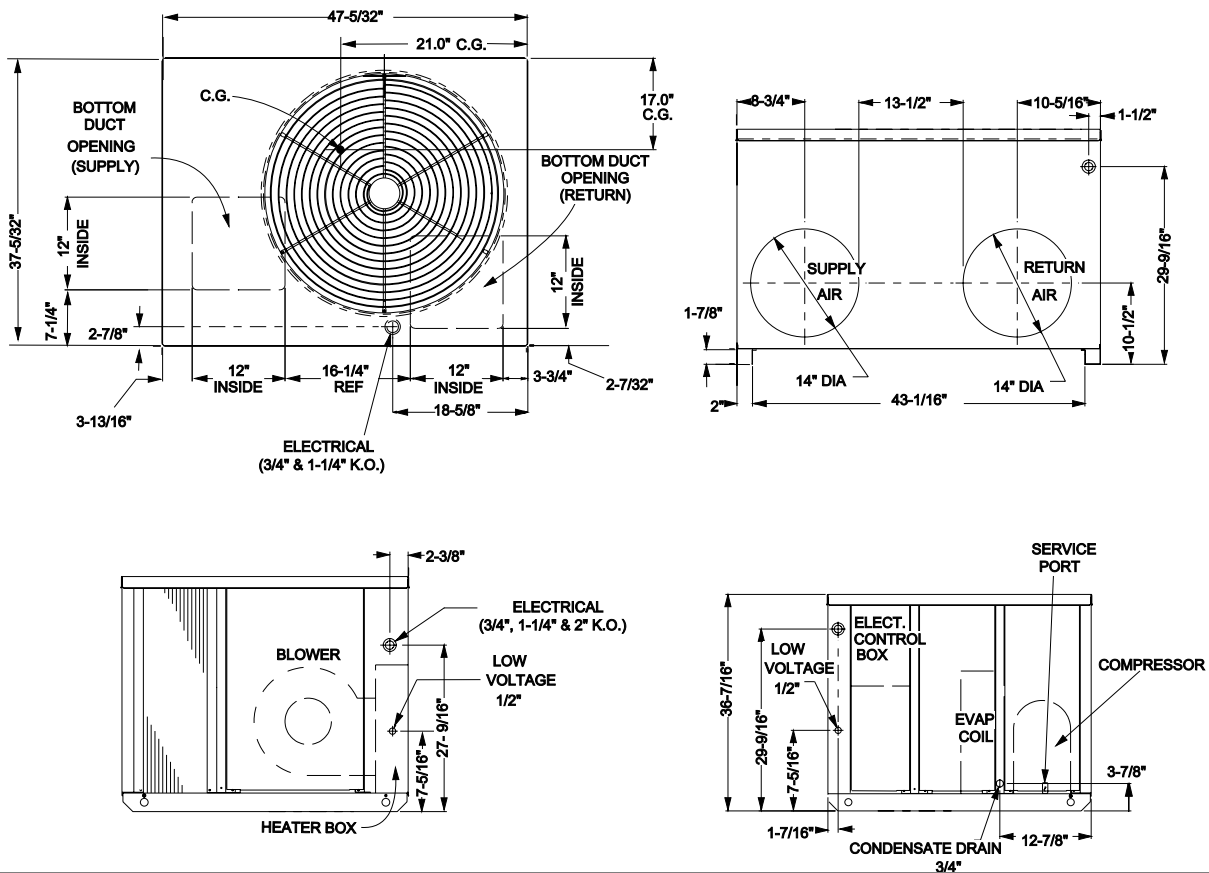
IMPORTANT: While the above data is presented as a guide, it is important to electrically connect the unit and properly size overcurrent devices and conductor wires in accordance with the **National Electrical Code** and all existing local codes. The above numbers are a guide for a unit with no electric heaters installed. Wire sizes assume 75°C copper wires.

Specification Sheet

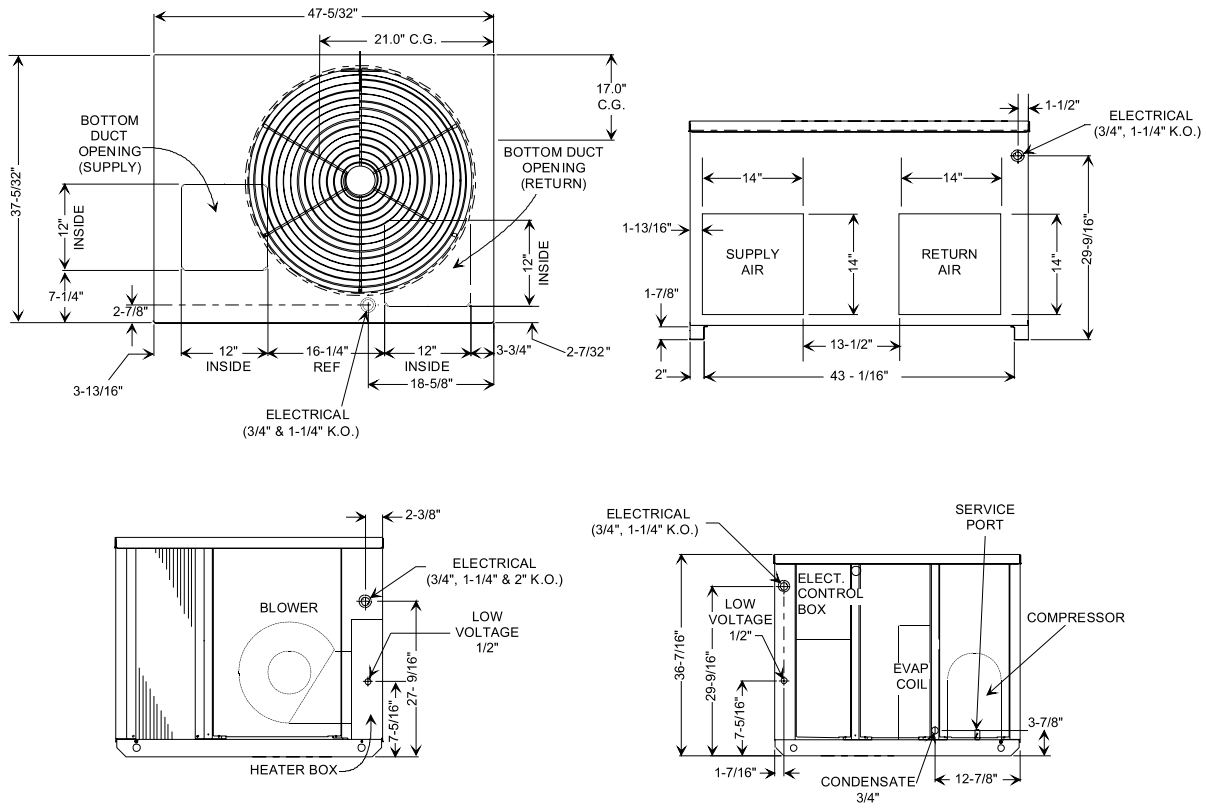
Dimensions - Models PHD24 - 30C02F1



Dimensions - Models PHD36 - 42C02F1



Dimensions - Model PHD48-60C02F1



PHD24, 30, 36C02F1								
Unit Static (In. W.C.)	Fan Speed							
	Low		Med		Med-High		High	
	CFM	Watts	CFM	Watts	CFM	Watts	CFM	Watts
0.1	840	230	1010	295	1,230	385	1,660	550
0.2	820	225	990	287	1,205	372	1,600	530
0.3	800	220	970	280	1,180	360	1,540	510
0.4	770	210	940	270	1,150	345	1,480	485
0.5	735	200	905	260	1,110	330	1,420	460
0.6	700	185	850	250	1,060	305	1,350	435
0.7	660	170	790	235	1,005	290	1,280	410
0.8	605	155	700	220	905	275	1,205	390

Specification Sheet

Cooling Performance

PHD24C02F1

Conditions: 80° ID DB, 67° ID WB @ 860 CFM

Outdoor Ambient °F	TOTAL Btuh	Sensible Btuh	Latent Btuh	Total Unit Watts
75°	25,200	17,100	8,100	1,910
80°	24,900	17,200	7,800	2,000
85°	24,600	17,200	7,400	2,020
90°	24,300	17,300	7,100	2,100
95°	24,000	17,300	6,700	2,120
100°	23,400	17,200	6,300	2,200
105°	22,800	17,000	5,800	2,200
110°	22,000	16,500	5,500	2,200
115°	21,100	15,900	5,200	2,280

PHD30C02F1

Conditions: 80° ID DB, 67° ID WB @ 980 CFM

Outdoor Ambient °F	TOTAL Btuh	Sensible Btuh	Latent Btuh	Total Unit Watts
75°	30,900	20,700	10,200	2,510
80°	30,500	20,700	9,800	2,600
85°	30,100	20,700	9,400	2,660
90°	29,800	20,800	9,000	2,700
95°	29,400	20,900	8,500	2,800
100°	28,700	20,800	7,900	2,900
105°	27,900	20,600	7,300	2,920
110°	26,900	19,900	7,000	3,000
115°	25,900	19,200	6,700	3,020

PHD36C02F1

Conditions: 80° ID DB, 67° ID WB @ 1170 CFM

Outdoor Ambient °F	TOTAL Btuh	Sensible Btuh	Latent Btuh	Total Unit Watts
75°	35,700	24,300	11,400	2,920
80°	35,300	24,300	11,000	3,000
85°	34,900	24,300	10,600	3,100
90°	34,500	24,400	10,100	3,200
95°	34,000	24,500	9,500	3,260
100°	33,200	24,300	8,900	3,300
105°	32,300	24,100	8,200	3,400
110°	31,100	23,300	7,800	3,500
115°	29,900	22,500	7,400	3,510

PHD42C02F1

Conditions: 80° ID DB, 67° ID WB @ 1250 CFM

Outdoor Ambient °F	TOTAL Btuh	Sensible Btuh	Latent Btuh	Total Unit Watts
75°	43,100	28,500	14,600	3,450
80°	42,600	28,500	14,100	3,600
85°	42,000	28,500	13,500	3,680
90°	41,500	28,600	12,900	3,800
95°	41,000	28,700	12,300	3,890
100°	40,000	28,500	11,500	4,000
105°	39,000	28,300	10,700	4,060
110°	37,600	27,400	10,200	4,100
115°	36,100	26,400	9,700	4,210

PHD48C02F1

Conditions: 80° ID DB, 67° ID WB @ 1550 CFM

Outdoor Ambient °F	TOTAL Btuh	Sensible Btuh	Latent Btuh	Total Unit Watts
75°	50,400	31,900	18,500	4,190
80°	49,800	31,900	17,900	4,300
85°	49,200	31,900	17,300	4,450
90°	48,600	32,100	16,600	4,600
95°	48,000	32,200	15,800	4,680
100°	46,800	32,000	14,900	4,800
105°	45,600	31,700	13,900	4,880
110°	43,900	30,700	13,300	5,000
115°	42,200	29,600	12,600	5,050

PHD60C02F1 HIGH STAGE

Conditions: 80° ID DB, 67° ID WB @ 1750 CFM

Outdoor Ambient °F	TOTAL Btuh	Sensible Btuh	Latent Btuh	Total Unit Watts
75°	58,800	38,200	20,600	4,710
80°	58,100	38,300	19,800	4,860
85°	57,400	38,500	18,900	5,000
90°	56,700	38,600	18,100	5,130
95°	56,000	38,600	17,400	5,260
100°	54,600	38,200	16,400	5,380
105°	53,200	38,300	14,900	5,490
110°	51,300	36,900	14,400	5,590
115°	49,300	35,500	13,800	5,680

PHD60C02F1 LOW STAGE

Conditions: 80° ID DB, 67° ID WB @ 1250 CFM

Outdoor Ambient °F	TOTAL Btuh	Sensible Btuh	Latent Btuh	Total Unit Watts
75°	44,100	28,700	15,400	3,320
80°	43,600	28,800	14,800	3,430
85°	43,100	28,900	14,200	3,530
90°	42,600	29,000	13,600	3,630
95°	42,000	29,000	13,000	3,720
100°	41,000	28,900	12,100	3,800
105°	39,900	28,700	11,200	3,880
110°	38,500	27,700	10,800	3,950
115°	37,000	26,600	10,400	4,010

Heating Performance

PHD24C02F1

Conditions: nominal CFM and 70 degree indoor dry bulb

Outside	Basic Unit No. Aux. Heat	Total System		Basic Unit with Auxiliary Heat			
Ambient °F	BTUH	Watts	C.O.P.	4.8 kW	9.6 kW	14.4 kW	19.2 kW
65	29,700	2,200	3.80	46,100	62,500	78,800	95,200
60	28,100	2,200	3.67	44,500	60,900	77,200	93,600
55	26,400	2,200	3.52	42,800	59,200	75,500	91,900
50	24,700	2,200	3.36	41,100	57,500	73,800	90,200
45	22,900	2,100	3.17	39,300	55,700	72,000	88,400
40	21,200	2,100	3.00	37,600	54,000	70,300	86,700
35	19,600	2,000	2.83	36,000	52,400	68,700	85,100
30	15,700	2,050	2.14	32,100	48,500	64,800	81,200
25	14,500	2,000	2.02	30,900	47,300	63,600	80,000
20	13,300	1,960	1.90	29,700	46,100	62,400	78,800
15	12,100	1,900	1.91	28,500	44,900	61,200	77,600
10	10,900	1,800	1.76	27,300	43,700	60,000	76,400
5	9,700	1,800	1.59	26,100	42,500	58,800	75,200
0	8,400	1,700	1.42	24,800	41,200	57,500	73,900
-5	7,200	1,700	1.25	23,600	40,000	56,300	72,700
-10	5,900	1,600	1.05	22,300	38,700	55,000	71,400

PHD42C02F1

Conditions: nominal CFM and 70 degree indoor dry bulb

Outside	Basic Unit No. Aux. Heat	Total System		Basic Unit with Auxiliary Heat			
Ambient °F	BTUH	Watts	C.O.P.	4.8 kW	9.6 kW	14.4 kW	19.2 kW
65	51,500	4,000	3.68	67,900	84,300	100,600	117,000
60	48,800	4,000	3.56	65,200	81,600	97,900	114,300
55	45,900	3,900	3.42	62,300	78,700	95,000	111,400
50	42,900	3,800	3.27	59,300	75,700	92,000	108,400
45	39,700	3,800	3.10	56,100	72,500	88,800	105,200
40	36,900	3,700	2.94	53,300	69,700	86,000	102,400
35	34,000	3,600	2.78	50,400	66,800	83,100	99,500
30	26,800	3,500	2.27	43,200	59,600	75,900	92,300
25	24,700	3,400	2.15	41,100	57,500	73,800	90,200
20	22,800	3,290	2.03	39,200	55,600	71,900	88,300
15	20,700	3,200	1.89	37,100	53,500	69,800	86,200
10	18,600	3,100	1.74	35,000	51,400	67,700	84,100
5	16,500	3,000	1.59	32,900	49,300	65,600	82,000
0	14,400	3,000	1.42	30,800	47,200	63,500	79,900
-5	12,300	2,900	1.25	28,700	45,100	61,400	77,800
-10	10,000	2,800	1.05	26,400	42,800	59,100	75,500

PHD30C02F1

Conditions: nominal CFM and 70 degree indoor dry bulb

Outside	Basic Unit No. Aux. Heat	Total System		Basic Unit with Auxiliary Heat			
Ambient °F	BTUH	Watts	C.O.P.	4.8 kW	9.6 kW	14.4 kW	19.2 kW
65	37,000	2,800	3.77	53,400	69,800	86,100	102,500
60	35,000	2,800	3.64	51,400	67,800	84,100	100,500
55	32,900	2,800	3.49	49,300	65,700	82,000	98,400
50	30,800	2,700	3.33	47,200	63,600	79,900	96,300
45	28,500	2,600	3.15	44,900	61,300	77,600	94,000
40	26,500	2,600	2.99	42,900	59,300	75,600	92,000
35	24,400	2,500	2.81	40,800	57,200	73,500	89,900
30	19,900	2,400	2.41	36,300	52,700	69,000	85,400
25	18,400	2,400	2.28	34,800	51,200	67,500	83,900
20	16,900	2,300	2.15	33,300	49,700	66,000	82,400
15	15,400	2,300	2.00	31,800	48,200	64,500	80,900
10	13,800	2,200	1.83	30,200	46,600	62,900	79,300
5	12,300	2,200	1.67	28,700	45,100	61,400	77,800
0	10,700	2,100	1.49	27,100	43,500	59,800	76,200
-5	9,100	2,000	1.30	25,500	41,900	58,200	74,600
-10	7,500	2,000	1.10	23,900	40,300	56,600	73,000

PHD48C02F1

Conditions: nominal CFM and 70 degree indoor dry bulb

Outside	Basic Unit No. Aux. Heat	Total System		Basic Unit with Auxiliary Heat			
Ambient °F	BTUH	Watts	C.O.P.	4.8 kW	9.6 kW	14.4 kW	19.2 kW
65	59,100	4,700	3.57	75,500	91,900	108,200	124,600
60	55,900	4,700	3.45	72,300	88,700	105,000	121,400
55	52,600	4,700	3.31	69,000	85,400	101,700	118,100
50	49,200	4,600	3.16	65,600	82,000	98,300	114,700
45	45,500	4,500	2.99	61,900	78,300	94,600	111,000
40	42,300	4,400	2.83	58,700	75,100	91,400	107,800
35	39,000	4,300	2.67	55,400	71,800	88,100	104,500
30	33,000	4,100	2.34	49,400	65,800	82,100	98,500
25	30,500	4,000	2.22	46,900	63,300	79,600	96,000
20	28,100	3,930	2.09	44,500	60,900	77,200	93,600
15	25,500	3,800	1.94	41,900	58,300	74,600	91,000
10	22,900	3,700	1.79	39,300	55,700	72,000	88,400
5	20,300	3,700	1.62	36,700	53,100	69,400	85,800
0	17,700	3,600	1.45	34,100	50,500	66,800	83,200
-5	15,100	3,500	1.27	31,500	47,900	64,200	80,600
-10	12,400	3,400	1.07	28,800	45,200	61,500	77,900

PHD36C02F1

Conditions: nominal CFM and 70 degree indoor dry bulb

Outside	Basic Unit No. Aux. Heat	Total System		Basic Unit with Auxiliary Heat			
Ambient °F	BTUH	Watts	C.O.P.	4.8 kW	9.6 kW	14.4 kW	19.2 kW
65	42,700	3,200	3.80	59,100	75,500	91,800	108,200
60	40,500	3,200	3.67	56,900	73,300	89,600	106,000
55	38,100	3,200	3.53	54,500	70,900	87,200	103,600
50	35,600	3,100	3.36	52,000	68,400	84,700	101,100
45	32,900	3,000	3.18	49,300	65,700	82,000	98,400
40	30,600	3,000	3.01	47,000	63,400	79,700	96,100
35	28,200	2,900	2.84	44,600	61,000	77,300	93,700
30	22,400	2,900	2.27	38,800	55,200	71,500	87,900
25	20,700	2,800	2.14	37,100	53,500	69,800	86,200
20	19,100	2,770	2.02	35,500	51,900	68,200	84,600
15	17,300	2,700	1.88	33,700	50,100	66,400	82,800
10	15,600	2,600	1.72	32,000	48,400	64,700	81,100
5	13,800	2,600	1.57	30,200	46,600	62,900	79,300
0	12,000	2,500	1.40	28,400	44,800	61,100	77,500
-5	10,300	2,400	1.23	26,700	43,100	59,400	75,800
-10	8,400	2,400	1.03	24,800	41,200	57,500	73,900

PHD60C02F1

Conditions: nominal CFM and 70 degree indoor dry bulb

Outside	Basic Unit No. Aux. Heat	Total System		Basic Unit with Auxiliary Heat			
Ambient °F	BTUH	Watts	C.O.P.	4.8 kW	9.6 kW	14.4 kW	19.2 kW
65	67,900	6,180	3.22	92,450	100,650	117,000	133,400
60	64,300	6,050	3.11	88,850	97,050	113,400	129,800
55	60,500	5,930	2.99	85,050	93,250	109,600	126,000
50	56,500	5,800	2.85	81,050	89,250	105,600	122,000
45	52,300	5,680	2.70	76,850	85,050	101,400	117,800
40	48,600	5,560	2.56	73,150	81,350	97,700	114,100
35	44,800	5,430	2.41	69,350	77,550	93,900	110,300
30	37,400	4,110	2.66	61,950	70,150	86,500	102,900
25	34,500	4,020	2.51	59,050	67,250	83,600	100,000
20	31,800	3,930	2.36	56,350	64,550	80,900	97,300
15	28,900	3,840	2.20	53,450	61,650	78,000	94,400
10	25,900	3,750	2.02	50,450	58,650	75,000	91,400
5	23,000	3,660	1.84	47,550	55,750	72,100	88,500
0	20,000	3,580	1.64	44,550	52,750	69,100	85,500
-5	17,100	3,480	1.44	41,650	49,850	66,200	82,600
-10	14,000	3,400	1.21	38,550	46,750	63,100	79,500

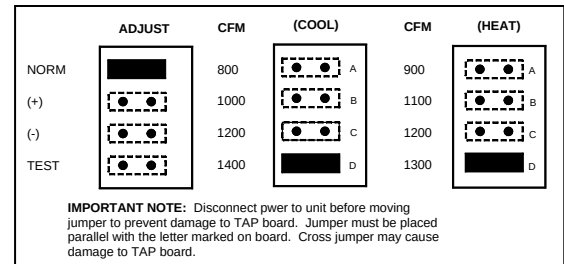
Specification Sheet

Heat Pump Performance

PHD24C02F1																		
Outdoor Ambient Temperature (° F)																		
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
T	30	28	26	25	24	23	21	20	16	15	13	13	12	11	10	8	7	6
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
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
PHD30C02F1																		
Outdoor Ambient Temperature (° F)																		
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
T	37	35	33	31	29	29	27	24	20	18	17	16	15	14	12	11	9	8
Amps	14.6	13.6	12.8	12.1	11.8	11.6	11.0	10.5	10.1	9.7	9.3	9.7	9.0	8.6	8.1	7.8	7.3	6.7
HI PR	253	243	233	223	218	214	206	197	189	181	173	169	166	160	154	147	142	137
LO PR	74	69	65	59	56	54	50	44	40	36	31	29	28	24	20	17	15	12
PHD36C02F1																		
Outdoor Ambient Temperature (° F)																		
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
T	33.8	32	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
AMPS	17.1	16	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	9	8
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
PHD42C02F1																		
Outdoor Ambient Temperature (° F)																		
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
T	38.2	36.1	34	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
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	10	9
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
PHD48C02F1																		
Outdoor Ambient Temperature (° F)																		
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
T	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
AMPS	23.9	22.3	21	19.8	19.2	18.9	17.9	17.1	16.4	15.8	15.1	14.8	14.6	14	13.2	12.5	12	11
HI PR	294	281	271	259	253	248	238	229	219	209	201	195	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
PHD60C02F1																		
Outdoor Ambient Temperature (° F)																		
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-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	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	246	244	235	226	216	209	201
LO PR	71	66	62	56	53	51	47	42	38	34	30	28	27	23	19	15	14	11

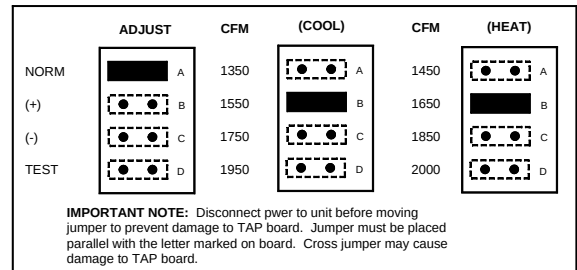
Dry Coil Data

PHD42C02F1					
Cooling Speed	Adjust Tab	CFM @ 0.1 - 0.5 ESP	Heating Speed	Adjust Tab	CFM @ 0.1 - 0.5 ESP
A	Minus	720	A	Minus	810
A	Normal	800	A	Normal	900
A	Plus	880	A	Plus	990
B	Minus	900	B	Minus	990
B	Normal	1,000	B	Normal	1,100
B	Plus	1,100	B	Plus	1,210
C	Minus	1,080	C	Minus	1,080
C	Normal	1,200	C	Normal	1,200
C	Plus	1,320	C	Plus	1,320
D	Minus	1,200	D	Minus	1,170
D	Normal	1,400	D	Normal	1,300
D	Plus	1,540	D	Plus	1,430

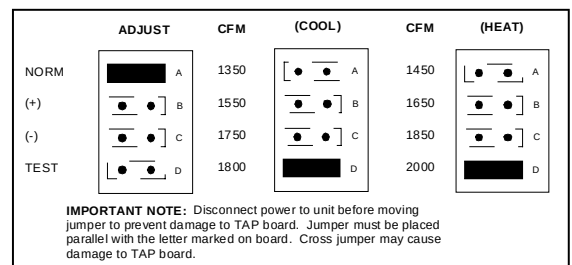


PHD48C02F1					
Cooling Speed	Adjust Tab	CFM @ 0.1 - 0.5 ESP	Heating Speed	Adjust Tab	CFM @ 0.1 - 0.5 ESP
A	Minus	1,215	A	Minus	1,305
A	Normal	1,350	A	Normal	1,450
A	Plus	1,485	A	Plus	1,595
B	Minus	1,395	B	Minus	1,485
B	Normal	1,550	B	Normal	1,650
B	Plus	1,705	B	Plus	1,815
C	Minus	1,575	C	Minus	1,665
C	Normal	1,750	C	Normal	1,850
C	Plus	1,925	C	Plus	2,000
D	Minus	1,620	D	Minus	1,800
D	Normal	1,800	D	Normal	2,000
D	Plus	1,980	D	Plus	2,000

Speed Tap Board for PHD48C02F1 (with factory settings)



PHD60C02F1						
Cooling Speed	Adjust Tab	CFM @ 0.1 - 0.5 ESP High Stage	CFM @ 0.1 - 0.5 ESP Low Stage	Heating Speed	Adjust Tab	CFM @ 0.1 - 0.5 ESP
A	Minus	1,215	850	A	Minus	1,305
A	Normal	1,350	945	A	Normal	1,450
A	Plus	1,485	1,040	A	Plus	1,595
B	Minus	1,395	975	B	Minus	1,485
B	Normal	1,550	1,085	B	Normal	1,650
B	Plus	1,705	1,195	B	Plus	1,815
C	Minus	1,575	110	C	Minus	1,665
C	Normal	1,750	1,225	C	Normal	1,850
C	Plus	1,925	1,350	C	Plus	2,000
D	Minus	1,620	1,135	D	Minus	1,800
D	Normal	1,800	1,260	D	Normal	2,000
D	Plus	1,980	1,385	D	Plus	2,000



Specification Sheet

EXPANDED PERFORMANCE DATA - High Stage COOLING OPERATION MODEL: PHD60C02F1

Outdoor Ambient Temperature																															
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	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	-	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	-	0.79	0.66	0.46	-	
		Δ T	18	15	12	-	18	15	12	-	18	15	12	-	18	16	12	-	18	15	12	-	17	14	11	-	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	-	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	-	23.2	23.8	24.5	-	
		HiPR	167	179	189	-	187	201	213	-	213	229	242	-	242	261	275	-	273	293	310	-	301	324	342	-	301	324	342	-	
		LO PR	59	62	68	-	62	66	72	-	64	68	75	-	68	72	78	-	71	75	82	-	73	78	85	-	73	78	85	-	
		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	-	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	-	0.76	0.63	0.44	-	
		Δ T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	17	15	11	-	
70	1750	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	-	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	-	23.1	23.6	24.4	-	
		HiPR	166	178	188	-	186	200	211	-	211	227	240	-	241	259	273	-	271	291	308	-	299	322	340	-	299	322	340	-	
		LO PR	58	62	68	-	61	65	71	-	64	68	74	-	67	71	78	-	70	75	82	-	73	77	84	-	73	77	84	-	
		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	-	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	-	0.73	0.61	0.42	-	
		Δ T	19	17	13	-	19	17	13	-	19	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-	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	-	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	-	22.8	23.3	24.0	-	
		HiPR	163	175	185	-	183	196	207	-	208	223	236	-	237	255	269	-	266	286	302	-	294	316	334	-	294	316	334	-	
LO PR	57	61	66	-	60	64	70	-	63	67	73	-	66	70	77	-	69	74	80	-	71	76	83	-	71	76	83	-			
*Entering Indoor Dry Bulb Temperature NOTE: Shaded area is ACCA (TVA) conditions																															
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	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	0.90	0.81	0.61	0.39	
		Δ 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	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	5.48	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	24.0	24.0	24.7	25.6	
		HiPR	168	181	191	200	189	203	215	224	215	231	244	255	245	263	278	290	275	296	313	326	304	327	346	361	327	346	361	361	
		LO PR	59	63	69	73	63	67	73	77	77	65	69	75	80	68	73	79	84	72	76	83	88	74	79	86	91	88	74	79	86
		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	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	0.86	0.77	0.58	0.38	
		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	19	15	10	10	
75	1750	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	5.45	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	23.8	24.6	25.4	25.4	
		HiPR	167	180	190	198	188	202	213	222	213	230	243	253	243	262	276	288	273	294	311	324	302	325	343	358	325	343	358	358	
		LO PR	59	63	68	73	62	66	72	77	65	69	75	80	68	73	79	84	71	76	82	88	73	78	85	91	88	73	78	85	91
		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	45.0	48.7	52.3	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	0.83	0.74	0.56	0.36	
		Δ 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	19	16	11	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	5.37	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	23.5	24.2	25.0	25.0	
		HiPR	164	177	187	195	184	198	210	219	210	226	238	249	239	257	272	283	269	289	305	319	297	320	337	352	320	337	352	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	72	77	84	89			

EXPANDED PERFORMANCE DATA - High Stage

COOLING OPERATION

MODEL: PHD60C02F1

		Outdoor Ambient Temperature										115																			
		65					75					85					95					105					115				
IDB*	Airflow	Entering Indoor Wet Bulb Temperature																													
80	1950	MBh	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71					
		S/T	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					
		Δ 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					
		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					
		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					
		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					
		1750	1600	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	263	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					
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					
Δ 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					
PR																															
*Entering Indoor Dry Bulb Temperature NOTE: Shaded area is ACCA (TVA) conditions																															
85	1950	MBh	56.9	58.1	60.8	64.9	55.6	56.7	59.4	63.4	54.3	55.4	59.0	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					
		Δ 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					
		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					
		PR																													
		MBh	56.1	57.2	59.9	63.9	54.8	55.9	58.5	62.4	53.5	54.5	57.9	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					
		Δ 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					
1750	1600	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					
		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					
		PR																													
		MBh	55.3	56.3	59.0	62.9	54.0	55.0	57.6	61.5	52.7	53.7	57.1	60.9	52.2	53.2	55.7	59.4	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					
		Δ 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					
#/REF1	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A	#/N/A						

Specification Sheet

EXPANDED PERFORMANCE DATA - High Stage COOLING OPERATION

MODEL: PHD60C02F1

		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	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	-	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	-	0.77	0.65	0.45	-	
		Δ T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	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	-	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	-	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	-	271	292	308	-	
		LO PR	61	65	71	-	65	69	75	-	67	72	78	-	71	75	82	-	74	79	86	-	77	82	89	-	77	82	89	-	
		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	-	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	-	0.76	0.63	0.44	-	
		Δ T	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-	18	16	12	-	
70	1250	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	-	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	-	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	-	270	291	307	-	
		LO PR	61	65	71	-	65	69	75	-	67	71	78	-	71	75	82	-	74	79	86	-	76	81	89	-	76	81	89	-	
		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	-	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	-	0.73	0.61	0.42	-	
		Δ T	20	17	13	-	20	18	13	-	20	18	13	-	20	18	13	-	20	17	13	-	19	16	12	-	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	-	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	-	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	-	266	286	302	-	
LO PR	60	64	70	-	64	68	74	-	66	70	77	-	69	74	81	-	73	77	84	-	75	80	87	-	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	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	0.88	0.79	0.60	0.38	
		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	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	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	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	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	77	82	90	96	
		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	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	0.86	0.77	0.58	0.38	
		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	21	19	16	11	
75	1250	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	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	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	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	77	82	90	96	
		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	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	0.83	0.74	0.56	0.36	
		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	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	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	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	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	76	81	88	94			

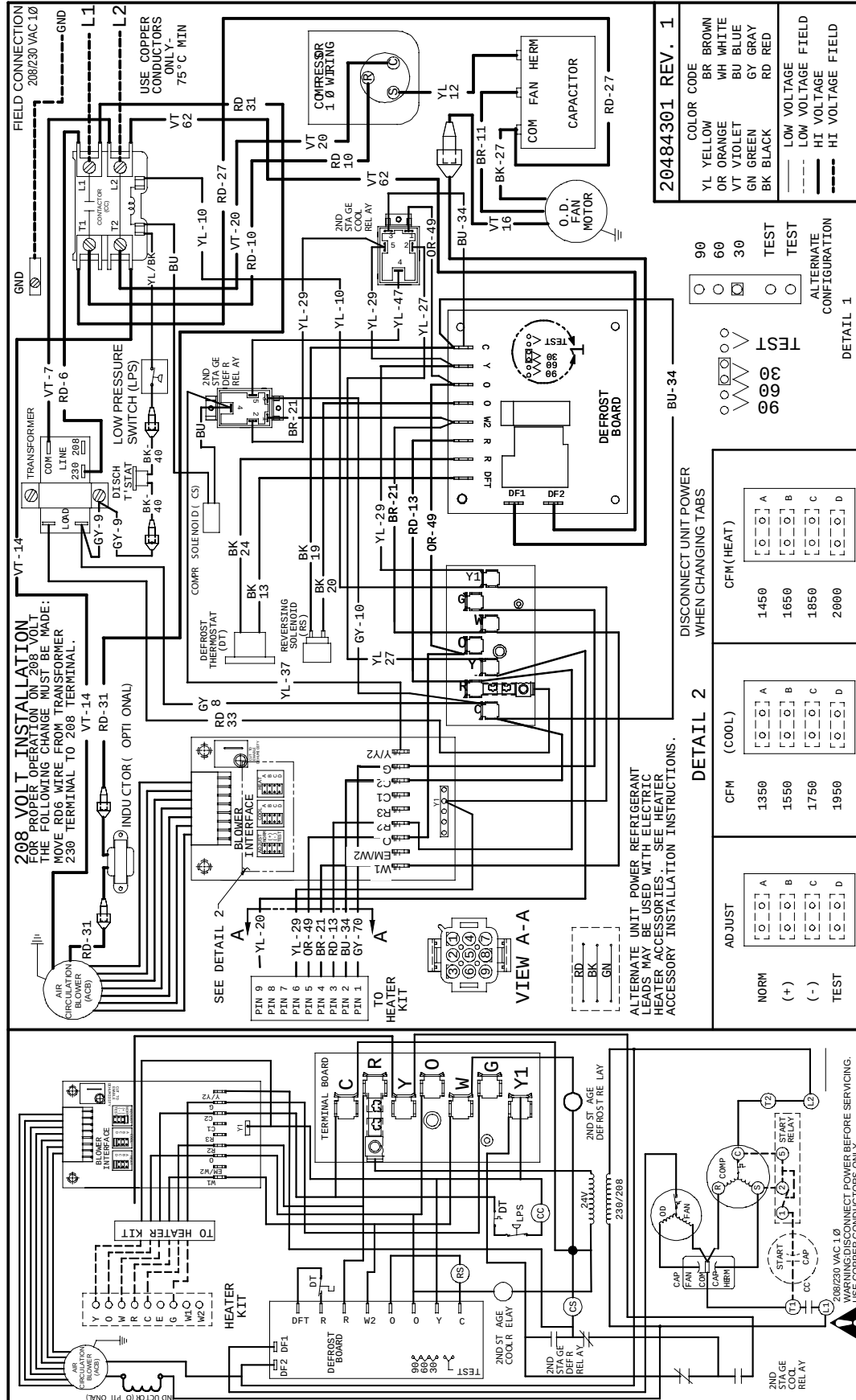
EXPANDED PERFORMANCE DATA - High Stage

COOLING OPERATION

MODEL: PHD60C02F1

		Outdoor Ambient Temperature										115																						
		65					75					85					95					105					115							
		Entering Indoor Dry Bulb Temperature NOTE: Shaded area is ACCA (TVA) conditions																																
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	59	63	67	71	59	63	67	71	
80	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									
	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									
	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	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									
	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									
	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									
	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	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									
	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									
	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	3.46	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									
	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								
		Δ 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									
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									
Δ 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										
1250	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									
	Δ 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									
	85	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																								

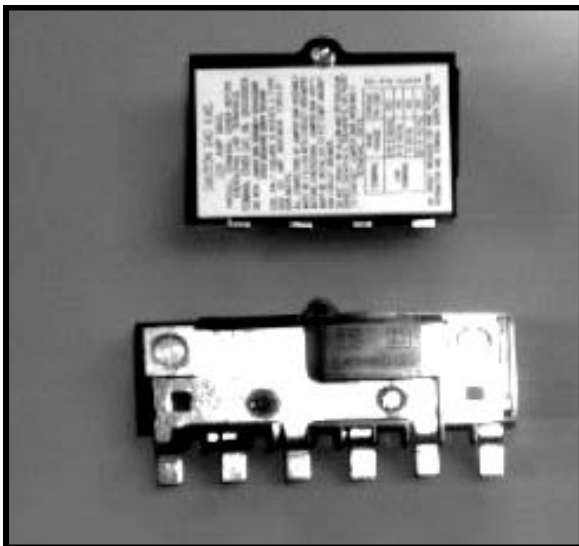
Wiring Diagram



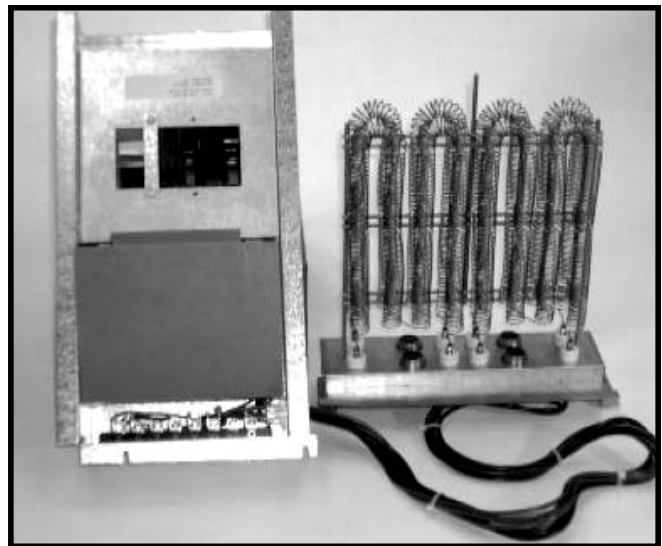
Heat Kit Selection

Electric Heater Kits - Capacity @ 240 VAC						
			Minimum Circuit Ampacity		Max Overcurrent Protection	
	kW	Btuh	L1-L2	L3-L4	L1-L2	L3-L4
PHCB05C1	4.8	16400.0	21.0	---	25	---
PHCB07C1	7.2	24500.0	32.0	---	40	---
PHCB10C1	9.6	32800.0	42.0	---	50	---
PHCB15C1	14.4	49100.0	42.0	21	50	25
PHCB20C1	19.2	65500.0	42.0	42	50	50

The application data for the new electric heater kits is provided for separate electrical heater kit wiring. Single point kits have been developed and the MCA and maximum overcurrent protection data for the combined unit wiring is provided in Product Marketing News 98PMN016 and the Heater Kit Installation Instructions.



Single Point Power Supply Kit



Electric Heater Kit

Electric Strip Heat Data

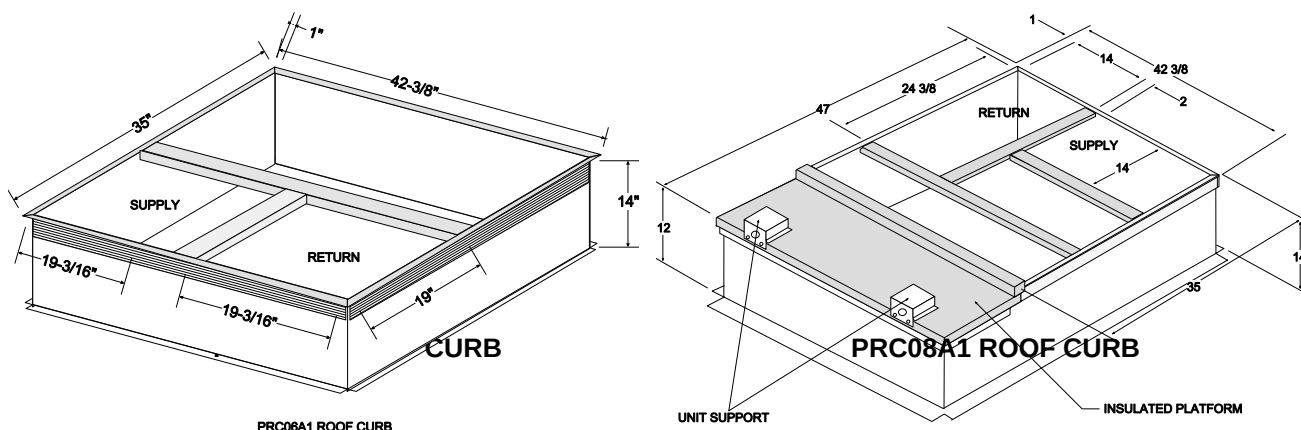
Electric strip heat data will be included in the specific electric heat kit installation material shipped with the electric heater kit.

Specification Sheet

Accessories

Model	Description	Notes
CHK001A	Horizontal Duct Cover Kit	Same as kit for PGB/D**C units.
PDTR0U4A	Side-by-Side to Over-Under Conversion Kit	Allows Over-Under Installation
OT18-60A	Outdoor Thermostat	Required for heat pump applications where ambient temperatures fall below 0 °F with 50% or higher relative humidity
OT/EHR18-60	Outdoor Lockout Thermostat/Emergency Heat Relay Kit	For staging electric heat
PRC06A1	Roof Curb - Heat Pump	Flat roof, 12" high platform for downflow applications specifically for the 47" x 37" footprint of the heat pump models
PRC08A1	Roof Curb - Combination	Flat roof, 12" high platform for downflow applications. Designed to accommodate both the 47" x 49" PGA/B/D gas/electric footprint and the PHB/D heat pump footprint.

Roof Curbs



Thermostats

Thermostat	Changeover	Analog/Digital	Programmable	EM Heat	Cool	Heat	Color	Usage
1213403	Manual	Analog	No	Yes	1	2	White	PHD 24 - 48C
1213404	Manualr	Digital	No	Yes	1	2	White	PHD 24 - 48C
1213406	Manual/Auto	Digital	5+2	Yes	2	3	Beige	PHD 24 - 60C
1213410	Manual	Digital	5+2	Yes	1	2	White	PHD 24 - 48C



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