

TECHNICAL GUIDE

60 HZ SINGLE PACKAGED ELECTRIC / ELECTRIC AIR-COOLED HEAT PUMP

10 SEER

PHP024 THRU PHP060
(2 THRU 5 NOMINAL TONS)



DESCRIPTION

These Heat Pumps are designed for outdoor installation and offer electric cooling and heating with an auxillary electric heat option for field installation. Only utility and duct connections are required at the point of installation.

WARRANTY

*1-year limited parts warranty.
Plus an additional 4-year compressor warranty.*

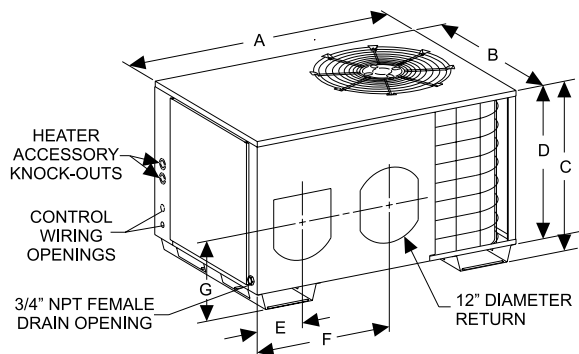
FEATURES

- **DURABLE CONSTRUCTION** - The outdoor unit is constructed of pre-painted galvanized steel that offers tough protection against corrosion and resists fading when exposed to sunlight. Drain holes are incorporated into the base pan to permit free drainage of moisture.
- **RELIABILITY** - The compressor is internally protected against both high pressure and high temperature. Each is equipped with an internal pressure relief valve and internal line break overload protection. In addition there is a factory fitted filter drier.
- **QUALITY COILS** - The outdoor coil is constructed of copper tube and hardened black coated aluminum fins for durability and long lasting efficient operation. A factory fitted coil guard provides additional protection.
- **LOWER INSTALLED COST** - Installation time and costs are reduced by easy utility connections. The small base dimensions mean less space is required on the ground or roof.
- **TOP DISCHARGE** -The warm condenser air is directed up and away from the structure and any landscaping.
- **LOW OPERATING SOUND LEVEL** - In addition to having a insulated blower compartment, the compressor is mounted on neoprene isolators to reduce operating sounds.
- **LOW MAINTENANCE** - Long-life, permanently lubricated motor bearings need no annual servicing.
- **U.L. and C.U.L. listed** - approved for outdoor application.
- Certified in accordance with the Unitary Small Equipment certification program, which is based on ARI Standard 210/240.

PHYSICAL AND ELECTRICAL DATA

MODEL		024H1021A	030H1021A	036H1021A	042H1021A	048H1021A	060H1021A
Unit Supply Voltage		230 – 1 – 60					
Normal Voltage Range ¹		216 to 252					
Minimum Circuit Ampacity		19.9	22.3	25.5	31.9	35.1	43.9
Max. Overcurrent Device Amps ²		30	35	40	50	50	60
Compressor Type		Recip	Recip	Recip	Recip	Scroll	Scroll
Compressor Amps	Rated Load	9.6	11.8	14.4	16.4	21.8	28.8
	Locked Rotor	61.0	73.0	86.0	105.0	124.0	165.0
Crankcase Heater		Yes	Yes	Yes	Yes	Yes	Yes
Fan Motor Amps	Rated Load	1.4	1.4	1.4	1.4	1.7	1.7
Fan Diameter Inches / # Blades		18" / 3	18" / 3	18" / 3	20" / 3	20" / 4	20" / 4
Fan Motor	Rated HP	1/4	1/4	1/4	1/4	1/3	1/3
	Nominal RPM	1,100	1,100	1,100	1,100	1,100	1,100
	Nominal CFM	2,300	2,300	2,300	2,700	3,000	3,000
Condenser Coil Data	Face Area Sq Ft	9.25	9.25	9.25	11.24	11.24	11.24
	Rows Deep	2	2	2	2	2	2
	Fin /Inch	15	15	15	13	13	13
	Tubing Diameter	3/8	3/8	3/8	3/8	3/8	3/8
Evaporator Coil Data	Face Area Sq Ft	3.61	3.61	3.61	4.67	4.67	4.67
	Rows Deep	3	4	4	4	4	4
	Fin /Inch	14	12	12	12	12	12
	Tubing Diameter	5/16	5/16	5/16	5/16	3/8	3/8
Blower Data	Motor HP / RPM	1/2 / 800	1/2 / 900	1/2 / 1,000	1/2 / 1,050	3/4 / 1,050	3/4 / 1,050
	Max. Static Pressure In. Water	.80	.80	.80	.80	.80	.80
	Dia. x Width (in.) / Rated CFM	10 x 7/800	10 x 7/1,000	10 x 7/1,200	10 x 7/1,400	10 x 7/1,500	10 x 7/1,600
	Motor Full Load AMPS	3.3	3.3	3.3	3.3	6.2	6.2
Shipping Weight (lbs.)		251	256	270	348	354	360
Unit Charge (lbs. – oz.)		4-3	4-12	5-2	6-10	9-0	8-8
Minimum Wire Size ³ 75° C Copper @ 230 Volt		#10 (0-75 ft.)	#10 (0-60 ft.)	#8 (0-85 ft.)	#8 (0-70 ft.)	#8 (0-60 ft.)	#6 (0-70 ft.)
		#8 (76-120 ft.)	#8 (61-100 ft.)	#6 (86-135 ft.)	#6 (71-110 ft.)	#6 (61-95 ft.)	-

1. Rated in accordance with ARI Standard 110, utilization range "A".
2. Dual element fuses or HACR circuit breaker.
3. Other temperature ratings of wire will have different rated ampacities. Refer to NEC for proper wire sizing recommendations. If using type NM or NM-B cable, wires must be sized to 60° C ampacities per NEC Article 336, Section 26. NEC and Local Codes supercede any wire recommendations made in these specifications.



All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.

	A	B	C	D	E	E	F	G
024	44	30	26 5/8	24 1/8	7 3/4	7 3/4	22 1/2	12 5/8
030	44	30	26 5/8	24 1/8	7 3/4	7 3/4	22 1/2	12 5/8
036	44	30	26 5/8	24 1/8	7 3/4	7 3/4	22 1/2	12 5/8
042	46	32	28 5/8	26 1/8	7 3/4	7 3/4	22 1/2	12 5/8
048	46	32	28 5/8	26 1/8	7 3/4	7 3/4	22 1/2	12 5/8
060	46	32	28 5/8	26 1/8	7 3/4	7 3/4	22 1/2	12 5/8

CAPACITY DATA

UNIT MODEL NUMBER	COOLING CAPACITY 95°F	HEATING CAPACITY 47°F	UNIT CHARGE WEIGHT HCFC-22	RATED CFM	SENSIBLE TOTAL RATIO	SOUND RATING
PHP024H1021A	24,000	23,600	4.25	800	0.72	8.4
PHP030H1021A	29,400	28,000	4.75	1000	0.72	8.4
PHP036H1021A	34,000	34,000	5.20	1200	0.75	8.4
PHP042H1021A	40,000	40,500	6.65	1350	0.76	8.4
PHP048H1021A	46,500	46,000	9.0	1400	0.78	8.4
PHP060H1021A	57,000	57,000	8.5	1600	0.73	8.4

BLOWER PERFORMANCE DATA

UNIT SPEED	STATIC PRESSURE								
	.1	.2	.3	.4	.5	.6	.7	.8	.9
PHP024H1021A PHP030H1021A PHP036H1021A PHP042H1021A									
High	1672	1626	1582	1525	1458	1380	1305	1226	1111
Medium	1237	1236	1227	1202	1183	1147	1106	1046	965
Low	1122	1117	1115	1107	1085	1058	1011	964	886
PHP048H1021A PHP060H1021A									
High	1787	1774	1747	1707	1645	1596	1524	1424	1335
Medium High	1422	1413	1409	1397	1371	1327	1282	1220	1140
Medium Low	1283	1269	1262	1255	1226	1203	1168	1119	1048
Low	1137	1133	1129	1122	1108	1087	1046	1008	932

COMPRESSOR DATA

UNIT MODEL	PHP024H1021A	PHP030H1021A	PHP036H1021A	PHP042H1021A	PHP048H1021A	PHP060H1021A
MANUFACTURER	Bristol	Bristol	Bristol	Bristol	Bristol	Bristol
COMPRESSOR MODEL	H29B24UABCA	H29B28UABCA	H29B35UABCA	H25A42QCBCA	H20R453ABCA	H20R583ABCA
RPM	3500	3500	3500	3500	3500	3500
BRANCH CIRCUIT SELECTION CURRENT (BCSC)	12.2	14.1	16.6	21.8	21.8	28.9

ELETRICAL DATA - Packaged Heat Pump (No Electric Heat)

MODEL		PHP024H1021A	PHP030H1021A	PHP036H1021A	PHP042H1021A	PHP048H1021A	PHP060H1021A
TOTAL ELECTRIC INPUT @ RATED CONDITIONS	Running Amps	12.1	14.1	17.2	19.3	21.7	30.1
	Running Watts	2616	2992	3904	4423	4655	6332

ELETRICAL DATA - for Heat Packages Only

HEATER NUMBER		7642*905 (4.8 KW)	7642*910 (9.6 KW)	7642*915 (14.3 KW)	
HEATER BRANCH CIRCUIT ELECTRICAL SERVICE		2 Leads + 1 Ground	2 Leads + 1 Ground	2 Leads + 1 Ground	2 Leads + 1 Ground
OUTPUT CAPACITY	240 VAC	BTUH KW 16,300 4.776	32,600 9.552	48,900 14.325	
	230 VAC	BTUH KW 14,970 4.386	29,940 8.773	44,910 13.159	
	220 VAC	BTUH KW 13,700 4.013	27,400 8.026	41,100 12.040	
NOMINAL CIRCUIT LOAD - AMPS		19.9	39.8	59.7	
CIRCUIT NUMBER		1	1	1	2
NOMINAL CIRCUIT LOAD - AMPS		19.9	39.8	19.9	39.8
MINIMUM CIRCUIT AMPACITY		30	60	30	60
MAXIMUM WIRE SIZE (60° C) CU	0 - 50 FT.	10	6	10	6
	50 - 100 FT.	10	4	10	4

* May denote "A", "B", etc. in heater number.

COOLING PERFORMANCE DATA

UNIT MODEL NO:		PHP024H1021A																	
INDOOR AIR		CONDENSER ENTERING AIR TEMPERATURE																	
		65			75			85			95			105			115		
ID CFM	ID DB/WB	CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH		
		T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
600	85/71	20.2	14.2	2.14	20.8	14.1	2.33	21.1	14.0	2.42	22.1	13.8	2.71	19.6	12.9	2.87	17.1	12.1	3.03
	80/67	26.3	16.0	2.23	24.3	15.2	2.37	23.2	14.8	2.44	20.1	13.6	2.66	17.3	12.2	2.81	14.5	10.9	2.96
	75/63	31.1	17.3	2.28	26.3	15.6	2.39	23.9	14.8	2.44	16.6	12.2	2.61	14.3	10.9	2.74	11.9	9.7	2.88
800	85/71	27.0	17.7	2.24	26.3	17.3	2.42	25.9	17.1	2.50	24.9	16.6	2.77	21.9	15.5	2.94	19.0	14.5	3.10
	80/67	29.1	18.7	2.27	26.9	17.7	2.42	25.7	17.2	2.50	22.4	15.8	2.72	19.5	14.6	2.88	16.6	13.3	3.03
	75/63	30.2	19.0	2.29	26.6	17.7	2.42	24.8	17.0	2.48	19.4	15.0	2.67	16.7	13.6	2.81	14.0	12.2	2.95
1000	85/71	33.8	21.1	2.33	31.7	20.6	2.50	30.7	20.3	2.58	27.6	19.4	2.84	24.3	18.1	3.00	20.9	16.8	3.17
	80/67	31.9	21.3	2.31	29.4	20.2	2.47	28.2	19.7	2.55	24.6	18.1	2.79	21.6	16.9	2.94	18.6	15.7	3.10
	75/63	29.2	20.6	2.31	26.9	19.7	2.45	25.7	19.2	2.52	22.2	17.9	2.74	19.1	16.3	2.88	16.0	14.7	3.02

NOTE: KW RATING IS FOR TOTAL POWER INPUT (COMPRESSOR, FAN MOTOR, AND BLOWER MOTOR).

UNIT MODEL NO:		PHP030H1021A																	
INDOOR AIR		CONDENSER ENTERING AIR TEMPERATURE																	
		65			75			85			95			105			115		
ID CFM	ID DB/WB	CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH		
		T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
800	85/71	37.7	22.3	2.57	35.7	21.0	2.75	33.7	19.8	2.93	31.7	18.5	3.11	28.8	17.3	3.31	26.0	16.2	3.51
	80/67	35.7	20.9	2.51	33.4	20.0	2.69	31.1	19.0	2.87	28.7	18.1	3.05	26.8	16.7	3.24	24.9	15.3	3.42
	75/63	32.5	19.5	2.47	30.3	18.7	2.65	28.1	17.9	2.84	25.8	17.0	3.02	24.0	15.4	3.18	22.2	13.8	3.34
1000	85/71	42.3	25.6	2.55	39.0	24.2	2.76	35.6	22.8	2.97	32.2	21.4	3.18	29.9	20.1	3.38	27.5	18.7	3.58
	80/67	36.7	23.7	2.58	34.3	22.9	2.75	32.0	22.2	2.91	29.6	21.4	3.08	27.5	19.7	3.28	25.3	18.0	3.49
	75/63	33.9	22.6	2.54	31.5	21.7	2.71	29.1	20.9	2.87	26.7	20.1	3.04	24.6	18.2	3.22	22.6	16.4	3.41
1200	85/71	46.9	29.0	2.52	42.2	27.5	2.76	37.5	25.9	3.00	32.8	24.4	3.24	30.9	22.8	3.45	29.1	21.2	3.65
	80/67	37.6	26.5	2.65	35.3	25.9	2.80	32.9	25.3	2.96	30.6	24.8	3.11	28.2	22.8	3.33	25.8	20.8	3.55
	75/63	35.3	25.6	2.62	32.7	24.8	2.76	30.1	24.0	2.91	27.5	23.1	3.05	25.3	21.1	3.27	23.0	19.0	3.48

NOTE: KW RATING IS FOR TOTAL POWER INPUT (COMPRESSOR, FAN MOTOR, AND BLOWER MOTOR).

UNIT MODEL NO:		PHP036H1021A																	
INDOOR AIR		CONDENSER ENTERING AIR TEMPERATURE																	
		65			75			85			95			105			115		
ID CFM	ID DB/WB	CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH		
		T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1000	85/71	47.8	28.4	3.35	43.9	27.0	3.56	40.0	25.5	3.77	36.0	24.1	3.98	32.3	22.3	4.21	28.5	20.4	4.43
	80/67	43.5	27.7	3.29	39.7	25.8	3.49	35.9	24.0	3.69	32.2	22.1	3.89	27.9	20.5	4.11	23.7	18.8	4.32
	75/63	39.4	26.6	3.21	35.8	24.5	3.41	32.2	22.4	3.61	28.6	20.3	3.81	25.2	18.8	4.02	21.7	17.2	4.24
1200	85/71	48.5	30.4	3.44	44.9	29.1	3.66	41.2	27.7	3.88	37.5	26.3	4.10	33.4	24.4	4.33	29.3	22.5	4.56
	80/67	45.0	30.1	3.38	41.0	28.1	3.59	37.0	26.0	3.80	33.0	23.9	4.00	29.0	22.1	4.22	25.0	20.3	4.43
	75/63	40.7	28.8	3.30	36.9	26.5	3.51	33.0	24.2	3.71	29.2	21.8	3.91	25.6	20.1	4.13	22.0	18.3	4.34
1400	85/71	49.3	32.5	3.53	45.8	31.2	3.76	42.4	29.9	3.99	38.9	28.5	4.22	34.5	26.6	4.45	30.2	24.6	4.68
	80/67	46.6	32.6	3.48	42.3	30.3	3.69	38.0	28.1	3.90	33.7	25.8	4.12	30.0	23.8	4.33	26.3	21.9	4.53
	75/63	42.0	31.1	3.40	37.9	28.5	3.61	33.9	25.9	3.81	29.8	23.4	4.02	26.0	21.4	4.23	22.2	19.3	4.45

NOTE: KW RATING IS FOR TOTAL POWER INPUT (COMPRESSOR, FAN MOTOR, AND BLOWER MOTOR).

COOLING PERFORMANCE DATA

UNIT MODEL NO:		PHP042H1021A																	
INDOOR AIR		CONDENSER ENTERING AIR TEMPERATURE																	
		65			75			85			95			105			115		
ID CFM	ID DB/WB	CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH		
		T.C.	S.C.	K.W	T.C.	S.C.	K.W	T.C.	S.C.	K.W	T.C.	S.C.	K.W	T.C.	S.C.	K.W	T.C.	S.C.	K.W
1150	85/71	50.5	30.6	3.62	48.2	29.8	3.92	45.9	29.1	4.21	43.6	28.4	4.50	40.3	27.0	4.78	37.1	25.6	5.07
	80/67	46.9	27.9	3.59	44.6	27.6	3.86	42.2	27.3	4.14	39.9	27.0	4.41	36.2	25.3	4.68	32.5	23.6	4.95
	75/63	43.6	27.0	3.51	40.7	26.4	3.77	37.8	25.9	4.03	35.0	25.3	4.28	31.7	23.8	4.54	28.4	22.2	4.79
1350	85/71	51.5	32.5	3.70	49.1	31.8	4.00	46.7	31.0	4.29	44.3	30.3	4.59	41.4	28.9	4.89	38.5	27.4	5.19
	80/67	47.3	29.0	3.66	45.2	29.1	3.95	43.1	29.1	4.23	41.0	29.2	4.52	37.4	27.4	4.79	33.7	25.6	5.05
	75/63	44.4	28.6	3.59	41.7	28.2	3.86	39.0	27.8	4.13	36.3	27.3	4.40	32.7	25.7	4.65	29.1	24.0	4.90
1550	85/71	52.5	34.4	3.78	50.0	33.7	4.08	47.5	33.0	4.38	45.0	32.3	4.68	42.5	30.7	4.99	40.0	29.2	5.31
	80/67	47.7	30.0	3.74	45.8	30.5	4.04	44.0	31.0	4.33	42.2	31.4	4.63	38.5	29.5	4.89	34.9	27.6	5.16
	75/63	45.3	30.2	3.67	42.7	29.9	3.95	40.2	29.6	4.23	37.6	29.4	4.51	33.7	27.5	4.76	29.7	25.7	5.00

NOTE: KW RATING IS FOR TOTAL POWER INPUT (COMPRESSOR, FAN MOTOR, AND BLOWER MOTOR).

UNIT MODEL NO:		PHP048H1021A																	
INDOOR AIR		CONDENSER ENTERING AIR TEMPERATURE																	
		65			75			85			95			105			115		
ID CFM	ID DB/WB	CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH		
		T.C.	S.C.	K.W	T.C.	S.C.	K.W	T.C.	S.C.	K.W	T.C.	S.C.	K.W	T.C.	S.C.	K.W	T.C.	S.C.	K.W
1200	85/71	60.7	37.0	3.39	58.3	35.0	3.75	55.9	33.0	4.12	53.4	31.0	4.48	49.1	29.4	4.93	44.8	27.8	5.38
	80/67	57.3	35.2	3.39	53.9	33.9	3.73	50.4	32.7	4.07	46.9	31.4	4.41	43.0	29.4	4.84	39.1	27.4	5.27
	75/63	52.0	34.2	3.36	48.6	32.6	3.70	45.3	31.0	4.03	41.9	29.3	4.37	38.0	27.5	4.78	34.2	25.6	5.19
1400	85/71	63.0	39.0	3.47	60.8	37.4	3.84	58.6	35.8	4.21	56.4	34.2	4.57	51.9	32.5	5.03	47.4	30.9	5.49
	80/67	58.5	37.7	3.56	56.5	37.1	3.81	54.6	36.5	4.07	52.6	35.8	4.32	47.0	33.1	4.84	41.3	30.5	5.37
	75/63	54.7	37.0	3.44	51.2	35.4	3.78	47.7	33.8	4.12	44.3	32.1	4.45	40.2	30.4	4.87	36.1	28.6	5.28
1600	85/71	65.3	41.1	3.55	63.3	39.9	3.92	61.3	38.6	4.30	59.3	37.3	4.67	54.7	35.7	5.13	50.0	34.0	5.60
	80/67	59.7	40.3	3.73	59.2	40.3	3.89	58.7	40.2	4.06	58.3	40.2	4.23	50.9	36.9	4.85	43.6	33.6	5.46
	75/63	57.3	39.8	3.53	53.8	38.2	3.87	50.2	36.6	4.20	46.6	35.0	4.54	42.3	33.3	4.95	38.0	31.6	5.36

NOTE: KW RATING IS FOR TOTAL POWER INPUT (COMPRESSOR, FAN MOTOR, AND BLOWER MOTOR).

UNIT MODEL NO:		PHP060H1021A																	
INDOOR AIR		CONDENSER ENTERING AIR TEMPERATURE																	
		65			75			85			95			105			115		
ID CFM	ID DB/WB	CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH		
		T.C.	S.C.	K.W	T.C.	S.C.	K.W	T.C.	S.C.	K.W	T.C.	S.C.	K.W	T.C.	S.C.	K.W	T.C.	S.C.	K.W
1450	85/71	73.9	45.2	4.62	70.1	43.4	5.15	66.2	41.7	5.68	62.3	39.9	6.21	57.3	38.0	6.84	52.4	36.1	7.47
	80/67	65.7	41.2	4.55	61.9	39.6	5.04	58.0	38.0	5.53	54.2	36.3	6.02	50.2	34.3	6.64	46.2	32.3	7.26
	75/63	63.4	42.6	4.48	59.9	40.7	4.95	56.4	38.9	5.42	52.9	37.1	5.90	47.6	35.0	6.50	42.2	32.9	7.11
1600	85/71	75.3	47.5	4.69	71.4	45.7	5.23	67.4	44.0	5.76	63.4	42.2	6.30	58.4	40.4	6.93	53.3	38.7	7.55
	80/67	66.5	42.9	4.63	62.6	41.4	5.12	58.8	39.8	5.61	54.9	38.2	6.11	50.8	36.2	6.72	46.6	34.3	7.34
	75/63	65.1	44.7	4.55	61.5	42.8	5.02	58.0	40.9	5.50	54.5	39.0	5.97	48.9	36.9	6.57	43.3	34.9	7.18
1750	85/71	76.7	49.7	4.77	72.7	48.0	5.31	68.6	46.3	5.85	64.6	44.6	6.39	59.4	42.9	7.01	54.2	41.2	7.63
	80/67	67.3	44.6	4.71	63.4	43.1	5.20	59.5	41.6	5.69	55.7	40.1	6.19	51.3	38.1	6.81	47.0	36.2	7.43
	75/63	66.7	46.8	4.62	63.1	44.8	5.10	59.5	42.8	5.57	56.0	40.9	6.05	50.2	38.9	6.65	44.5	36.9	7.25

NOTE: KW RATING IS FOR TOTAL POWER INPUT (COMPRESSOR, FAN MOTOR, AND BLOWER MOTOR).

HEATING PERFORMANCE DATA

UNIT MODEL NO:		PHP024H1021A																	
ID CFM		AIR TEMPERATURE ENTERING OUTDOOR UNIT																	
		60			47			40			30			17			10		
		AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL		
		60	70	80	60	70	80	60	70	80	60	70	80	60	70	80	60	70	80
600	MBTUH	25.5	24.3	23.1	18.5	18.2	17.8	18.5	16.9	15.3	14.5	13.2	11.9	11.2	9.5	7.9	9.3	7.6	6.0
	K.W.	2.49	2.60	2.72	2.20	2.31	2.41	2.20	2.26	2.32	2.04	2.14	2.23	2.04	2.05	2.07	1.96	1.97	1.97
	C.O.P.	2.76	2.53	2.31	2.24	2.12	1.99	2.25	2.01	1.77	2.08	1.75	1.42	1.45	1.23	1.01	1.25	1.02	0.80
800	MBTUH	27.7	26.7	25.6	21.0	20.7	20.4	21.0	19.2	17.5	16.0	14.9	13.7	12.7	11.0	9.3	10.9	9.2	7.6
	K.W.	2.45	2.57	2.69	2.20	2.31	2.43	2.19	2.26	2.33	2.06	2.16	2.26	2.07	2.09	2.11	2.00	2.01	2.03
	C.O.P.	2.97	2.74	2.52	2.47	2.33	2.19	2.48	2.21	1.95	2.28	1.93	1.57	1.58	1.36	1.13	1.40	1.18	0.95
1000	MBTUH	29.9	29.0	28.2	23.4	23.1	22.9	23.4	21.6	19.7	17.5	16.5	15.5	14.3	12.5	10.6	12.5	10.8	9.2
	K.W.	2.40	2.53	2.66	2.19	2.32	2.44	2.19	2.27	2.35	2.08	2.19	2.29	2.10	2.12	2.14	2.03	2.06	2.09
	C.O.P.	3.17	2.95	2.73	2.68	2.53	2.38	2.69	2.41	2.12	2.47	2.09	1.71	1.70	1.47	1.24	1.53	1.31	1.09

NOTE: KW RATING IS FOR TOTAL POWER INPUT (COMPRESSOR, FAN MOTOR, AND BLOWER MOTOR).

UNIT MODEL NO:		PHP030H1021A																	
ID CFM		AIR TEMPERATURE ENTERING OUTDOOR UNIT																	
		60			47			40			30			17			10		
		AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL		
		60	70	80	60	70	80	60	70	80	60	70	80	60	70	80	60	70	80
800	MBTUH	31.1	30.7	30.2	28.1	26.8	25.6	24.6	23.3	22.1	20.4	18.6	16.8	14.4	12.8	11.3	11.3	10.0	8.7
	K.W.	2.67	2.82	2.97	2.52	2.64	2.75	2.44	2.54	2.64	2.35	2.43	2.52	2.24	2.29	2.33	2.18	2.19	2.21
	C.O.P.	3.41	3.20	2.98	3.26	2.99	2.72	2.95	2.70	2.45	2.54	2.25	1.96	1.88	1.65	1.41	1.51	1.34	1.16
1000	MBTUH	31.7	31.5	31.3	28.9	27.8	26.7	24.6	23.9	23.3	21.6	19.7	17.8	15.1	13.7	12.3	11.8	10.4	9.0
	K.W.	2.62	2.78	2.94	2.50	2.63	2.76	2.41	2.53	2.66	2.36	2.45	2.54	2.27	2.32	2.37	2.21	2.23	2.25
	C.O.P.	3.11	2.94	2.77	2.95	2.73	2.50	2.59	2.43	2.26	2.32	2.06	1.80	1.68	1.49	1.31	1.34	1.18	1.01
1200	MBTUH	32.4	32.3	32.3	29.7	28.8	27.9	24.5	24.6	24.6	22.9	20.9	18.9	15.9	14.5	13.2	12.3	10.8	9.4
	K.W.	2.58	2.75	2.91	2.49	2.63	2.78	2.39	2.53	2.67	2.37	2.47	2.57	2.31	2.36	2.41	2.24	2.27	2.30
	C.O.P.	3.69	3.47	3.24	3.50	3.22	2.94	3.01	2.85	2.69	2.83	2.50	2.16	2.02	1.82	1.61	1.61	1.40	1.19

NOTE: KW RATING IS FOR TOTAL POWER INPUT (COMPRESSOR, FAN MOTOR, AND BLOWER MOTOR).

UNIT MODEL NO:		PHP036H1021A																	
ID CFM		AIR TEMPERATURE ENTERING OUTDOOR UNIT																	
		60			47			40			30			17			10		
		AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL		
		60	70	80	60	70	80	60	70	80	60	70	80	60	70	80	60	70	80
1000	MBTUH	39.7	38.2	36.8	33.6	31.9	30.2	29.2	26.9	24.5	24.6	22.9	21.1	17.9	16.3	14.6	14.8	13.2	11.6
	K.W.	3.52	3.68	3.83	3.24	3.37	3.51	3.12	3.22	3.31	2.99	3.08	3.17	2.79	2.84	2.90	2.72	2.78	2.84
	C.O.P.	3.31	3.06	2.81	3.04	2.79	2.53	2.74	2.46	2.17	2.41	2.18	1.95	1.88	1.68	1.47	1.59	1.40	1.20
1200	MBTUH	40.0	38.8	37.7	34.3	32.7	31.0	30.0	27.9	25.7	25.3	23.4	21.6	18.5	16.7	14.8	15.2	13.4	11.6
	K.W.	3.50	3.68	3.85	3.26	3.40	3.55	3.15	3.28	3.40	16.97	10.11	3.24	2.86	2.92	2.98	2.79	2.86	2.92
	C.O.P.	3.34	3.11	2.87	3.09	2.83	2.57	2.79	2.51	2.22	2.44	2.20	1.95	1.90	1.68	1.46	1.59	1.38	1.18
1400	MBTUH	40.2	39.4	38.6	35.0	33.4	31.8	30.9	28.9	26.9	26.1	24.0	22.0	19.2	17.1	15.0	15.5	13.6	11.7
	K.W.	3.49	3.68	3.86	3.28	3.43	3.59	3.19	3.33	3.48	30.96	17.14	3.31	2.93	3.00	3.06	2.87	2.93	3.00
	C.O.P.	3.37	3.15	2.93	3.13	2.87	2.60	2.84	2.56	2.27	2.47	2.21	1.95	1.92	1.68	1.44	1.59	1.37	1.15

NOTE: KW RATING IS FOR TOTAL POWER INPUT (COMPRESSOR, FAN MOTOR, AND BLOWER MOTOR).

HEATING PERFORMANCE DATA

UNIT MODEL NO:		PHP042H1021A																	
ID CFM		AIR TEMPERATURE ENTERING OUTDOOR UNIT																	
		60			47			40			30			17			10		
		AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL		
		60	70	80	60	70	80	60	70	80	60	70	80	60	70	80	60	70	80
1150	MBTUH	49.1	46.8	44.4	40.6	38.2	35.8	36.1	33.7	31.4	30.0	27.8	25.5	22.5	20.5	18.5	19.1	17.1	15.2
	K.W.	4.15	4.36	4.57	3.81	3.93	4.05	3.61	3.72	3.83	3.40	3.48	3.57	3.16	3.23	3.29	3.06	3.11	3.17
	C.O.P.	3.15	2.88	2.61	2.81	2.58	2.35	2.62	2.39	2.17	2.31	2.09	1.87	1.84	1.65	1.46	1.60	1.42	1.24
1350	MBTUH	48.5	46.7	45.0	41.2	39.1	37.0	37.2	34.8	32.4	31.1	28.7	26.3	23.2	21.0	18.7	19.7	17.6	15.5
	K.W.	4.09	4.31	4.53	3.80	3.94	4.09	3.64	3.75	3.86	3.43	3.52	3.62	3.24	3.29	3.35	3.12	3.17	3.23
	C.O.P.	3.10	2.86	2.62	2.81	2.59	2.37	2.64	2.41	2.18	2.32	2.10	1.88	1.82	1.63	1.43	1.60	1.41	1.22
1550	MBTUH	47.9	46.7	45.5	41.7	40.0	38.2	38.4	35.9	33.3	32.2	29.7	27.2	24.0	21.5	19.0	20.3	18.1	15.8
	K.W.	4.04	4.26	4.48	3.79	3.96	4.13	3.67	3.78	3.90	3.46	3.56	3.66	3.32	3.36	3.41	3.17	3.24	3.30
	C.O.P.	3.05	2.84	2.64	2.80	2.60	2.39	2.66	2.42	2.19	2.34	2.11	1.88	1.81	1.60	1.40	1.59	1.40	1.20

NOTE: KW RATING IS FOR TOTAL POWER INPUT (COMPRESSOR, FAN MOTOR, AND BLOWER MOTOR).

UNIT MODEL NO:		PHP048H1021A																	
ID CFM		AIR TEMPERATURE ENTERING OUTDOOR UNIT																	
		60			47			40			30			17			10		
		AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL		
		60	70	80	60	70	80	60	70	80	60	70	80	60	70	80	60	70	80
1200	MBTUH	48.2	48.4	48.6	43.6	43.5	43.4	40.2	40.0	39.9	34.2	34.3	34.5	26.9	25.8	24.6	23.7	22.0	20.2
	K.W.	4.03	4.44	4.85	3.90	4.25	4.60	3.81	4.12	4.43	3.64	3.94	4.25	3.47	3.72	3.96	3.43	3.66	3.90
	C.O.P.	3.51	3.23	2.94	3.28	3.02	2.76	3.09	2.87	2.64	2.75	2.57	2.38	2.27	2.05	1.82	2.03	1.78	1.52
1400	MBTUH	47.2	47.6	48.0	42.6	43.0	43.4	40.0	40.1	40.2	33.6	34.2	34.7	27.7	26.3	25.0	24.3	22.6	21.0
	K.W.	3.94	4.33	4.72	3.83	4.18	4.52	3.77	4.08	4.40	3.60	3.92	4.23	3.48	3.74	4.01	3.46	3.69	3.93
	C.O.P.	3.11	2.89	2.68	2.87	2.70	2.53	2.74	2.57	2.40	2.40	2.27	2.14	2.03	1.83	1.62	1.80	1.59	1.38
1600	MBTUH	46.1	46.7	47.3	41.5	42.5	43.4	39.8	40.1	40.4	33.0	34.0	34.9	28.4	26.9	25.3	24.9	23.3	21.8
	K.W.	3.85	4.22	4.60	3.77	4.11	4.45	3.74	4.05	4.36	3.56	3.89	4.22	3.49	3.77	4.06	3.49	3.72	3.96
	C.O.P.	3.51	3.26	3.01	3.23	3.05	2.86	3.12	2.92	2.72	2.72	2.57	2.42	2.39	2.11	1.83	2.09	1.85	1.61

NOTE: KW RATING IS FOR TOTAL POWER INPUT (COMPRESSOR, FAN MOTOR, AND BLOWER MOTOR).

UNIT MODEL NO:		PHP060H1021A																	
ID CFM		AIR TEMPERATURE ENTERING OUTDOOR UNIT																	
		60			47			40			30			17			10		
		AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL			AIR TEMP. ENTERING INDOOR COIL		
		60	70	80	60	70	80	60	70	80	60	70	80	60	70	80	60	70	80
1450	MBTUH	65.5	64.6	63.7	55.2	53.7	52.2	49.5	46.8	44.2	40.4	38.4	36.4	31.4	30.7	30.0	27.7	26.8	26.0
	K.W.	5.32	5.82	6.32	4.98	5.39	5.80	4.74	5.15	5.55	4.56	4.89	5.23	4.33	4.67	5.01	4.20	4.54	4.89
	C.O.P.	3.60	3.28	2.95	3.24	2.94	2.64	3.06	2.70	2.33	2.60	2.32	2.04	2.13	1.94	1.75	1.93	1.75	1.56
1600	MBTUH	65.1	64.5	63.8	55.9	54.2	52.6	50.1	47.5	44.9	40.5	39.0	37.6	31.8	30.9	30.1	26.4	26.1	25.7
	K.W.	5.25	5.72	6.20	4.92	5.33	5.74	4.71	5.11	5.52	4.54	4.89	5.25	4.31	4.66	5.01	4.17	4.53	4.88
	C.O.P.	3.27	3.02	2.76	2.98	2.71	2.44	2.78	2.47	2.16	2.32	2.10	1.89	1.90	1.74	1.58	1.63	1.50	1.38
1750	MBTUH	64.8	64.4	63.9	56.6	54.8	52.9	50.8	48.2	45.7	40.6	39.7	38.7	32.1	31.2	30.2	25.1	25.3	25.4
	K.W.	5.17	5.62	6.07	4.86	5.26	5.67	4.67	5.08	5.49	4.51	4.89	5.27	4.29	4.65	5.01	4.15	4.52	4.88
	C.O.P.	3.68	3.38	3.08	3.41	3.08	2.74	3.19	2.82	2.44	2.64	2.40	2.15	2.19	1.98	1.77	1.77	1.65	1.53

NOTE: KW RATING IS FOR TOTAL POWER INPUT (COMPRESSOR, FAN MOTOR, AND BLOWER MOTOR).

NOTES