

TECHNICAL SPECIFICATIONS

P6SP Series

6, 7½ and 10 Ton Packaged Electric Cooling Units

11.2 EER Commercial System Units

These units are designed specifically for retrofit applications and compatibility with most standard footprints. They take less time to install and retrofit, making the contractor's job more profitable. These units offer flexibility in the replacement market.

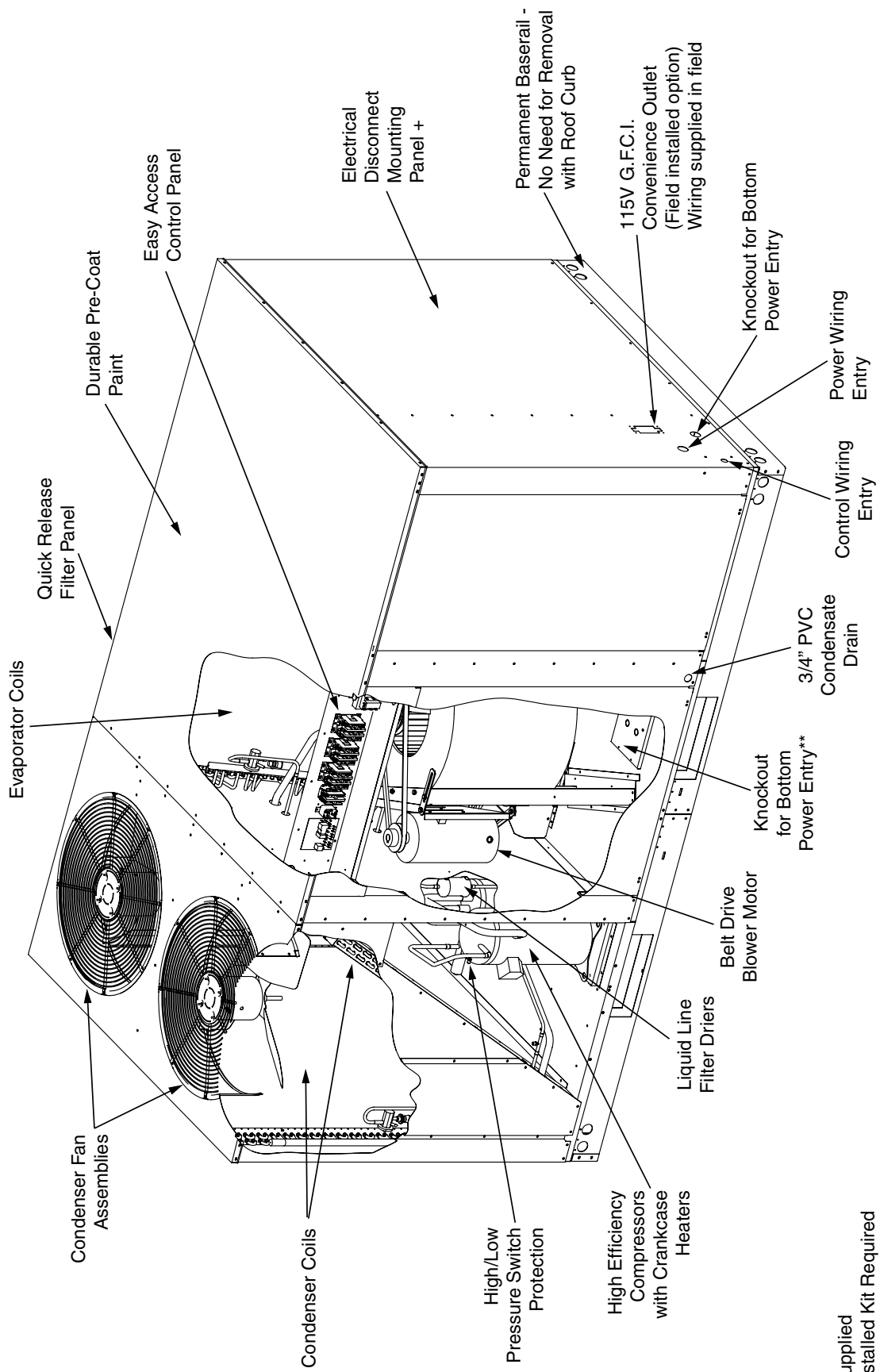


WARRANTY

- 1 year limited parts
- 5 year compressor

FEATURES and BENEFITS

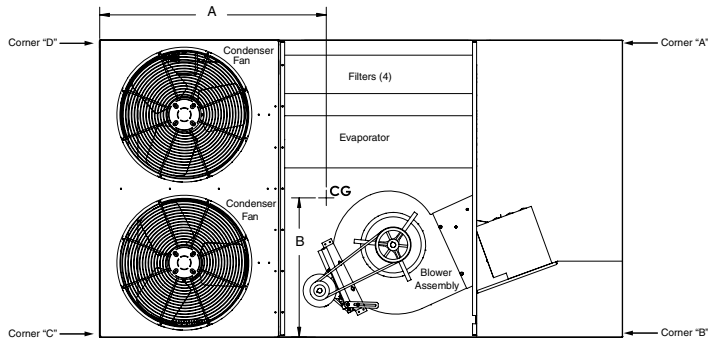
- **Quality Compressor:** State of the art scroll compressor is standard equipment.
- **R-410A Refrigerant:** Earth friendly non-ozone depleting refrigerant.
- **7 ½ & 10 Ton Feature Two-Stage Cooling.**
- **6 Ton Features Single Stage Cooling.**
- **Optional Electric Heat:** Field installed 9 – 35 KW.
- **Hi/Low Pressure Switches:** Ensure long compressor life. Featuring manual reset high pressure control.
- **Copper Tube / Aluminum Fin Coils:** Both indoor and outdoor coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **Plastic Mesh Hail Guard:** A guard that will never rust and protects the units coil from being damaged.
- **For Easy Service:** Hi/low service ports allow quick access without disrupting operation.
- **Permanently Lubricated Motor:** A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **75 VA Transformer:** Includes 4 Amp circuit breaker to protect low voltage circuit.
- **Liquid Line Filter Driers:** Factory installed for convenience.
- **Crankcase Heater:** Protection from liquid floodback and future compressor failures.
- **Freeze protection thermostats:** Provide reliable compressor operation.
- **Easy Compressor and Control Access:** Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit.
- **Convertible Air Delivery with Kit:** Easily converts to horizontal airflow with side panel including duct flange and bottom close off panels.
- **Quick-Release Filter Access Panels:** Requires no special servicing tools.
- **Fully Insulated Bottom Pan:** Helps ensure quiet operation and prevents condensation.
- **Removable Top Grille Assembly:** Allows ease of service to the fan motor.
- **Full Perimeter Base rail System:** Base rails have rigging holes and do not need to be removed for curb applications. Base rails have fork truck slots on three sides.
- **Durable, Attractive Cabinet:** Designed using 20 gauge galvanized steel with a polyester urethane finish. The 950 hour salt spray finish is 1.5 mil thick and resists corrosion 50% better than comparable units.
- **Compatibility:** Fits most standard rooftop applications can be easily adapted for exceptions. Footprint database available for cross-reference at <http://www.rooftopsystems.com> under the "Adapter Quote" tab.



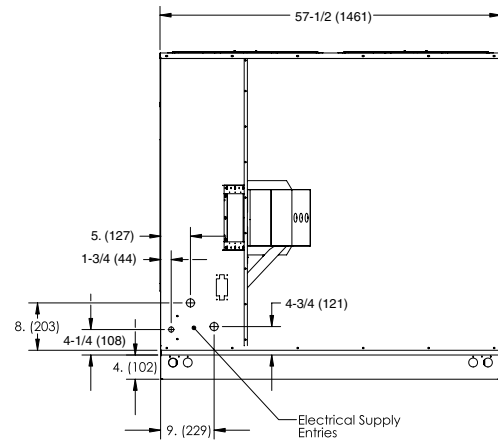
+ Field Supplied
 ** Field Installed Kit Required

P6SP-120 SERIES – PHYSICAL DATA

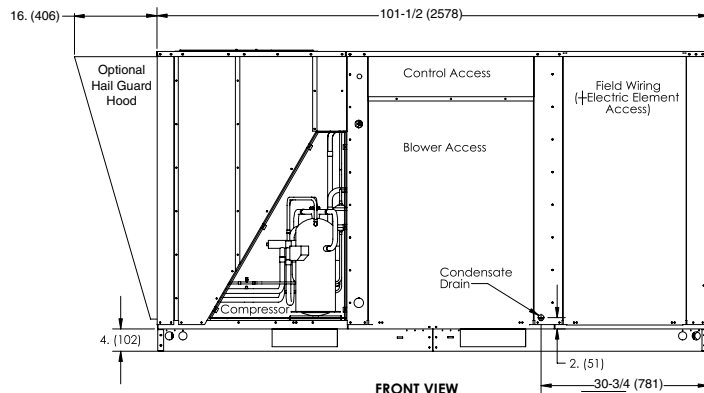
Dimensions shown in inches (mm)



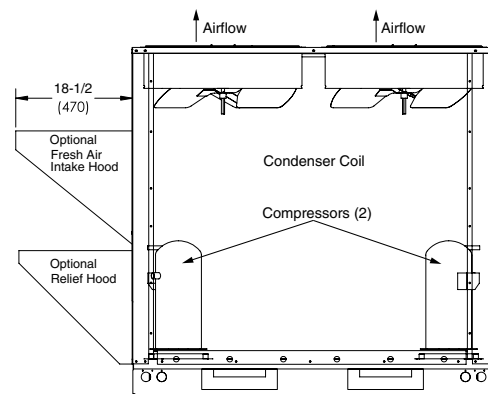
TOP VIEW



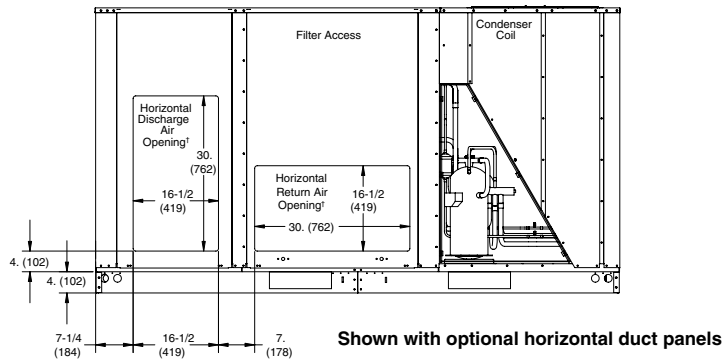
HEAT EXCHANGER END



FRONT VIEW

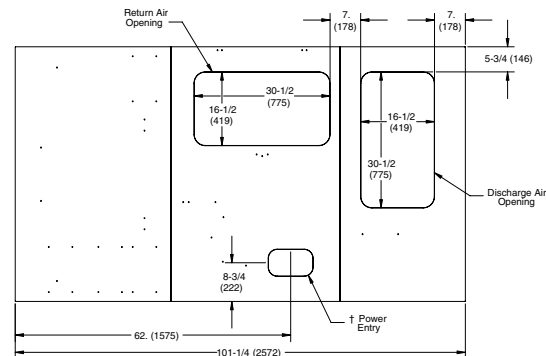


CONDENSER END



Shown with optional horizontal duct panels

REAR VIEW



BOTTOM PAN TOP VIEW

Preliminary Data

Model No.	Unit Weight ‡		Shipping Weight		Center of Gravity Inches (mm)		Corner Weights								Unit Height *	
							A		B		C		D		Horizontal Duct Applications	Vertical Duct Applications
	Lbs.	Kg.	Lbs.	Kg.	A	B	Lbs.	Kg.	Lbs.	Kg.	Lbs.	Kg.	Lbs.	Kg.		
P6SP-072(C/D)	845	384	980	445	43-1/2 (1105)	32-1/4 (819)	159	72	204	93	270	123	211	96	43-1/2 (1105)	38-1/4 (972)
P6SP-090(C/D)	856	388	991	450	50-1/2 (1283)	28 (714)	209	95	218	99	219	99	210	95	43-1/2 (1105)	38-1/4 (972)
P6SP-120(C/D)	1130	514	1270	577	44 (1118)	27 (686)	226	103	264	120	345	157	295	134	55-1/4 (1403)	50 (1270)

* Basersails are not intended to be removed. Information provided is total unit height for Horizontal duct applications or height dimension added to selected roof curb height for Vertical duct applications.

‡ Unit weight without packaging or field installed accessories.

† Field Installed Kit

SPECIFICATIONS AND ELECTRICAL DATA

Model P6SP-	072C	072D	090C	090D	120C	120D
Performance Data						
Gross Cooling Capacity (High) - BTUH	73,300	73,300	93,500	93,500	125,000	125,000
¹ Rated Cooling Capacity (Net @ 95°) - BTUH	72,000	72,000	90,000	90,000	119,000	119,000
^{1,2} E.E.R. - Cooling Efficiency (Btu/Watt)	11.2	11.2	11.2	11.2	11.2	11.2
^{1,3} Cooling Capacity (IPLV, 2-Stage) - BTUH	- n/a -	- n/a -	101,000	101,000	132,000	132,000
^{1,3} Cooling Capacity (IPLV, 1-Stage) - BTUH	- n/a -	- n/a -	52,500	52,500	63,000	63,000
IEER	12.6	12.6	12.3	12.3	11.5	11.5
AHRI Rated Airflow - CFM	2,400	2,400	3,000	3,000	4,000	4,000
Electrical Rating - 60 Hz.	w/ Standard Blower Drive					
Phase	3	3	3	3	3	3
Operating Voltage	187-253	414-506	187-253	414-506	187-253	414-506
Maximum Rated Ampacity	26	13	37	18	43	21
Minimum Circuit Ampacity (MCA)	30	16	44	21	47	23
Max. Overcurrent Protection (MOP)	40	20	50	25	60	30
Electrical Rating - 60 Hz.	w/ Med Static Blower Drive		w/ High Static Blower Drive			
Phase	3	3	3	3	3	3
Operating Voltage	187-253	414-506	187-253	414-506	187-253	414-506
Maximum Rated Ampacity	27	14	40	19	46	23
Minimum Circuit Ampacity (MCA)	32	16	44	21	50	25
Max. Overcurrent Protection (MOP)	50	25	50	25	60	30
Compressor Data	1 ea.	1 ea.	2 ea.	2 ea.	2 ea.	2 ea.
Compressors (Scrolls)	ZP61KCE	ZP61KCE	ZP39K5E	ZP39K5E	ZP51K5E	ZP51K5E
Volts	208/230	460	208/230	460	208/230	460
⁴ Rated Load Amps	21.2	10.9	13.1	6.1	17.8	8.6
Lock Rotor Amps	123.0	62.0	83.1	41.0	110	52
Indoor Blower - Belt Drive						
(Qty.) - Wheel Diameter	(1) - 12 x 12	(1) - 12 x 12	(1) - 12 x 12	(1) - 12 x 12	(1) - 15 x 15	(1) - 15 x 15
Standard Blower Drive Motor - HP / RPM	1 / 1755	1 / 1755	2 / 1725	2 / 1725	2 / 1725	2 / 1725
Standard Blower Drive Motor - Amps	3.2	1.5	6.2	2.9	6.2	2.9
Blower RPM Range	727 - 984		817 - 1107		686 - 951	
Blower ESP Range	0.2 - 0.9 in-WC		0.1 - 0.8 in-WC		0.1 - 1.0 in-WC	
Med Static Blower Drive Motor - HP / RPM	1.5 / 1755	1.5 / 1755	3 / 1725	3 / 1725	N/A	
High Static Blower Drive Motor - Amps	4.4	2.1	9.1	4.4		
Blower RPM Range	926 - 1189		1000 - 1340			
Blower ESP Range	0.9 - 1.6 in-WC		0.9 - 1.6 in-WC			
High Static Blower Drive Motor - HP / RPM	N/A		3 / 1725	3 / 1725	3 / 1725	3 / 1725
High Static Blower Drive Motor - Amps			9.1	4.4	9.1	4.4
Blower RPM Range			1163 - 1422		936 - 1159	
Blower ESP Range			1.6 - 2.0 in-WC		1.0 - 2.0 in-WC	
Outdoor Fan Data	2 ea.	2 ea.	2 ea.	2 ea.	2 ea.	2 ea.
Motor - HP / RPM	1/3 - 1100	1/3 - 1100	1/3 - 1075	1/3 - 1075	1/3 - 1075	1/3 - 1075
Motor Amps (ea.)	1.5	0.8	2.3	1.2	2.3	1.2
Fan Diameter / Total CFM	20" / 7000	20" / 7000	24" / 8200	24" / 8200	24" / 8200	24" / 8200
Refrigerant Charge - oz. (R-410a)						
Stage 1 Circuit	168 Oz.		168 Oz.		216 Oz.	
Stage 2 Circuit	Not Applicable		168 Oz.		216 Oz.	
High Pressure Switch (PSIG)	650 +/- 10 Manual Reset		Stage 1 - 650 +/- 10 Manual Reset			
Stage 2 - 650 +/- 10 Manual Reset						
Loss of Charge Switch (PSIG)	Cut Out: 5 +/- 5 Cut In: 20 +/- 5					
Freeze Protection Thermostats	Opens (°F): 28 +/- 5 Closes (°F): 57 +/- 6					
Filters						
Style	Disposable - 2" Pleated					
Size (Qty.)	16" x 20" x 2" (4)		16" x 20" x 2" (4)		16" x 25" x 2" (4)	

Notes:

- 1) Certified in accordance with AHRI Standard 340/360 at the minimum duct external static pressure allowed by the standard. ARI Rating for units with dual voltages are shown at highest rated unit voltage.
- 2) E.E.R. - Energy Efficiency Ratio: The EER and Net Capacity is determined @ 95°F Outdoor DB & 80°F DB / 67°F WB Air entering the evaporator
- 3) IEER - Integrated Energy Efficiency Ratio: a measure of merit for part load performance of the unit.
- 4) Compressor RLA = Compressor MCC ÷ 1.4

P6SP - EXPANDED RATINGS, COOLING MODE

P6SP-072(C/D)

O.D.T			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
2250	75	62	68.4	52.3	5.64	63.1	49.9	6.24	57.7	47.6	6.85	52.4	45.2	7.46
		67	76.1	41.1	5.73	70.6	39.0	6.33	65.0	36.8	6.92	59.5	34.7	7.52
		72	84.7	32.3	5.82	78.7	30.2	6.41	72.8	28.2	7.01	66.8	26.1	7.60
	80	62	68.7	63.0	5.65	63.7	60.5	6.21	58.6	57.9	6.78	54.4	54.2	7.47
		67	76.1	52.3	5.74	71.4	50.3	6.28	66.7	48.2	6.83	60.7	45.5	7.54
		72	84.1	41.5	5.85	78.8	39.4	6.37	73.4	37.2	6.89	67.0	34.5	7.55
2400	75	62	69.2	54.2	5.73	63.9	51.7	6.34	58.6	49.3	6.95	53.3	46.8	7.55
		67	77.1	42.4	5.81	71.6	40.0	6.41	66.2	37.6	7.01	60.7	35.2	7.61
		72	85.9	32.3	5.92	79.9	30.5	6.51	73.8	28.7	7.10	67.8	26.9	7.70
	80	62	69.7	64.4	5.75	65.1	61.4	6.35	60.5	58.5	6.95	55.9	55.6	7.55
		67	77.0	54.1	5.82	72.0	51.7	6.43	65.9	49.4	7.08	60.4	47.0	7.71
		72	85.1	42.7	5.92	79.5	40.3	6.50	73.9	37.9	7.09	68.2	35.5	7.67
2550	75	62	70.0	56.0	5.82	64.7	53.5	6.43	59.5	50.9	7.04	54.2	48.4	7.65
		67	78.0	43.7	5.89	72.7	41.0	6.50	67.3	38.4	7.10	61.9	35.7	7.71
		72	87.0	32.2	6.01	81.0	30.7	6.61	74.9	29.1	7.20	68.8	27.6	7.79
	80	62	70.6	65.8	5.85	66.2	62.8	6.45	62.5	60.9	6.97	57.3	56.9	7.63
		67	77.9	56.0	5.90	72.6	53.4	6.50	67.4	50.9	7.11	62.2	48.3	7.71
		72	86.1	43.9	5.98	80.6	41.4	6.59	75.0	38.9	7.19	69.5	36.4	7.79

P6SP-072(C/D) CONTINUED

O.D.T			55°F			65°F			75°F			85°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
2250	75	62	78.6	57.9	4.49	75.2	56.0	4.87	71.8	54.2	5.25	68.4	52.3	5.64
		67	86.8	46.7	4.59	83.2	44.8	4.97	79.7	43.0	5.35	76.1	41.1	5.73
		72	95.0	36.1	4.70	91.6	34.8	5.07	88.1	33.6	5.45	84.7	32.3	5.82
	80	62	79.2	68.9	4.47	75.8	66.9	4.85	72.8	65.5	5.21	68.7	63.0	5.65
		67	87.3	58.2	4.57	83.8	56.3	4.95	80.6	54.9	5.31	76.1	52.3	5.74
		72	95.0	45.6	4.69	91.6	44.3	5.06	88.8	43.5	5.41	84.1	41.5	5.85
2400	75	62	79.6	59.7	4.58	76.1	57.8	4.97	72.6	56.0	5.35	69.2	54.2	5.73
		67	87.6	48.0	4.68	84.1	46.1	5.06	80.6	44.3	5.44	77.1	42.4	5.81
		72	95.6	36.0	4.79	92.4	34.8	5.17	89.1	33.5	5.54	85.9	32.3	5.92
	80	62	80.2	70.6	4.57	76.7	68.7	4.95	73.6	67.3	5.31	69.7	64.4	5.75
		67	88.1	59.5	4.66	84.6	57.6	5.03	81.5	56.2	5.39	77.0	54.1	5.82
		72	95.6	45.5	4.78	92.4	44.2	5.15	89.8	43.4	5.50	85.1	42.7	5.92
2550	75	62	80.5	61.5	4.68	77.0	59.6	5.06	73.5	57.8	5.44	70.0	56.0	5.82
		67	88.3	49.3	4.77	84.9	47.4	5.15	81.5	45.6	5.52	78.0	43.7	5.89
		72	96.2	35.9	4.88	93.1	34.7	5.26	90.1	33.4	5.64	87.0	32.2	6.01
	80	62	81.1	72.4	4.66	77.6	70.5	5.04	74.5	69.2	5.40	70.6	65.8	5.85
		67	88.8	60.8	4.75	85.5	58.9	5.12	82.4	57.5	5.48	77.9	56.0	5.90
		72	96.2	45.4	4.88	93.2	44.1	5.24	90.8	43.4	5.60	86.1	43.9	5.98

- Notes:
- 1) T.C. = Total (Net) Cooling Capacity, S.C. = Sensible Cooling Capacity, kW = Kilowatts
 - 2) Expanded Ratings are based on 230 Volt - 60 Hz operation
 - 3) Ratings based on factory standard blower drive
 - 4) Bolded Values indicate ARI rating points
 - 5) Energy Efficiency Ratio (EER) = T.C. / kW

P6SP - EXPANDED RATINGS, COOLING MODE (Continued)

P6SP-090(C/D) (Two Compressor Operation)

O.D.T			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
2813	75	62	85.3	65.2	7.08	81.3	63.9	7.74	73.4	62.7	8.84	68.5	61.2	9.39
		67	93.3	52.4	7.19	88.8	51.2	7.84	80.1	50.0	8.94	74.8	48.6	9.46
		72	101.9	39.3	7.31	97.3	38.0	7.97	87.7	36.7	9.06	82.0	35.3	9.59
	80	62	86.0	76.5	7.09	82.2	75.5	7.75	74.3	74.5	8.85	69.8	73.6	9.40
		67	92.9	64.4	7.18	88.6	63.4	7.84	80.0	62.4	8.94	74.7	61.2	9.46
		72	101.7	51.4	7.31	97.0	50.4	7.96	87.5	49.3	9.06	81.6	48.1	9.58
3000	75	62	86.8	69.4	7.27	82.7	68.1	7.93	74.5	66.8	9.05	69.5	65.3	9.57
		67	94.6	55.2	7.38	90.0	54.0	8.03	80.9	52.7	9.14	75.3	51.3	9.64
		72	103.5	40.4	7.51	98.6	39.1	8.17	88.8	37.8	9.27	82.9	36.3	9.78
	80	62	87.9	81.9	7.29	84.3	81.8	7.96	76.6	80.3	9.08	72.2	76.4	9.60
		67	94.5	68.5	7.38	90.0	67.5	8.04	81.2	66.5	9.14	75.6	65.3	9.65
		72	103.1	54.2	7.51	98.2	53.1	8.16	88.4	52.0	9.26	82.5	50.9	9.78
3188	75	62	87.9	73.3	7.46	83.7	72.0	8.12	75.3	70.7	9.24	70.2	69.1	9.75
		67	95.3	57.8	7.57	90.3	56.5	8.22	81.2	55.1	9.32	75.7	53.6	9.82
		72	104.6	41.4	7.71	99.5	40.1	8.36	89.6	38.7	9.46	83.5	37.3	9.95
	80	62	90.3	88.4	7.50	86.7	86.3	8.16	78.7	78.3	8.49	74.0	73.7	9.80
		67	95.6	72.5	7.57	91.1	71.4	8.23	82.0	70.4	8.56	76.6	69.2	9.83
		72	104.1	56.8	7.70	98.9	55.7	8.35	88.9	54.7	8.68	82.4	53.4	9.95

P6SP-090 (C/D) (One Compressor operation)

O.D.T			55 °F			65 °F			75 °F			85 °F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
2825	75	62	58.5	52.6	3.74	52.5	47.2	3.88	48.0	44.1	4.10	45.0	43.2	4.42
		67	64.7	44.3	3.81	58.8	38.9	3.95	54.3	35.8	4.18	51.3	34.9	4.49
		72	71.7	35.0	3.90	65.8	29.7	4.04	61.3	26.6	4.26	58.2	25.7	4.57
	80	62	59.3	59.3	3.78	53.3	53.3	3.92	48.8	48.8	4.15	45.8	45.8	4.46
		67	64.6	57.4	3.85	58.7	52.0	3.98	54.2	48.9	4.21	51.1	48.0	4.52
		72	70.5	49.5	3.92	64.6	44.1	4.06	60.1	41.0	4.28	57.0	40.1	4.59
3000	75	62	59.0	53.7	3.77	53.1	48.3	3.91	48.6	45.2	4.14	45.5	44.3	4.45
		67	65.3	45.3	3.85	59.4	40.0	3.99	54.9	36.9	4.21	51.8	36.0	4.53
		72	72.2	36.1	3.93	66.3	30.8	4.07	61.8	27.6	4.30	58.8	26.8	4.61
	80	62	59.8	59.8	3.82	53.9	53.9	3.96	49.4	49.4	4.18	46.3	46.3	4.49
		67	65.1	58.4	3.88	59.2	53.1	4.02	54.7	50.0	4.24	51.6	49.1	4.56
		72	71.1	50.6	3.95	65.1	45.2	4.09	60.6	42.1	4.32	57.6	41.2	4.63
3190	75	62	59.5	55.3	3.77	53.6	50.0	3.90	49.1	46.8	4.13	46.0	46.0	4.44
		67	65.8	47.0	3.84	59.8	41.6	3.98	55.3	38.5	4.20	52.3	37.6	4.52
		72	72.7	37.8	3.92	66.8	32.4	4.06	62.3	29.3	4.29	59.2	28.4	4.60
	80	62	60.3	60.3	3.81	54.4	54.4	3.95	49.9	49.9	4.17	46.8	46.8	4.49
		67	65.6	60.1	3.87	59.7	54.7	4.01	55.2	51.6	4.24	52.1	50.7	4.55
		72	71.5	52.2	3.94	65.6	46.9	4.08	61.1	43.7	4.31	58.0	42.9	4.62

Notes:

1) T.C. = total (Net) cooling in kBtu/h; S.C. = Sensible Cooling in kBtu/h; kW = Kilowatts

2) Ratings are based on the Factory Standard blower drive combination

3) For 208-230V Units, the ratings shown reflect 230V operation

4) **Bolded** Values indicate AHRI rating points

5) Energy Efficiency Ratio (EER) = T.C./kW

P6SP - EXPANDED RATINGS, COOLING MODE (Continued)

P6SP-120(C/D) (Two Compressor Operation)

O.D.T			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
3500	75	62	112.7	86.5	9.36	107.5	84.9	10.24	97.0	83.3	11.68	90.5	81.3	12.41
		67	123.3	69.6	9.50	117.4	68.0	10.37	105.9	66.3	11.82	98.8	64.5	12.50
		72	134.7	52.2	9.67	128.6	50.5	10.53	115.9	48.7	11.98	108.4	46.9	12.68
	80	62	113.7	101.5	9.37	108.6	100.3	10.25	98.2	98.9	11.71	92.3	97.8	12.43
		67	122.8	85.5	9.49	117.2	84.2	10.36	105.7	82.8	11.82	98.8	81.3	12.51
		72	134.4	68.3	9.67	128.2	66.9	10.53	115.6	65.5	11.98	107.9	63.9	12.67
4000	75	62	114.8	92.1	9.62	109.3	90.4	10.49	98.5	88.7	11.96	91.8	86.7	12.65
		67	125.0	73.3	9.76	118.9	71.6	10.62	107.0	70.0	12.08	99.6	68.1	12.74
		72	136.8	53.6	9.93	130.3	51.9	10.80	117.4	50.1	12.25	109.6	48.2	12.93
	80	62	116.2	108.8	9.64	111.5	108.6	10.52	101.3	106.6	12.01	95.4	101.5	12.69
		67	124.9	91.0	9.75	119.0	89.6	10.62	107.3	88.3	12.09	100.0	86.7	12.75
		72	136.3	71.9	9.93	129.8	70.5	10.79	116.9	69.1	12.25	109.1	67.6	12.92
4500	75	62	116.2	97.4	9.87	110.7	95.6	10.74	99.6	93.9	12.22	92.8	91.8	12.89
		67	125.9	76.8	10.00	119.4	75.0	10.86	107.3	73.2	12.33	100.0	71.2	12.98
		72	138.2	55.0	10.19	131.6	53.2	11.05	118.4	51.4	12.51	110.4	49.5	13.16
	80	62	119.4	117.4	9.91	114.6	114.6	10.79	104.0	104.0	11.22	97.8	97.8	12.95
		67	126.4	96.2	10.01	120.4	94.9	10.88	108.5	93.5	11.31	101.2	91.9	13.00
		72	137.6	75.4	10.18	130.7	74.0	11.04	117.5	72.6	11.48	108.9	70.9	13.16

Notes: 1) T.C. = Total (Net) Cooling Capacity, S.C. = Sensible Cooling Capacity, kW = Kilowatts

2) Expanded Ratings are based on 230 Volt - 60 Hz operation

3) Bolded Values indicate ARI rating points

4) Energy Efficiency Ratio (EER) = T.C. / kW

P6SP-120(C/D) (One compressor operation)

O.D.T			55 °F			65 °F			75 °F			85 °F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
3500	75	62	65.9	49.1	4.50	61.8	46.9	4.80	56.8	44.3	5.10	50.7	41.4	5.50
		67	73.8	37.5	4.70	69.8	35.3	5.00	64.7	32.7	5.30	58.7	29.8	5.70
		72	82.6	27.7	4.80	78.6	25.5	5.10	73.5	22.9	5.50	67.5	19.9	5.90
	80	62	69.9	58.8	4.30	65.9	56.6	4.60	60.9	54.0	5.00	54.8	51.0	5.30
		67	76.7	47.9	4.50	72.6	45.6	4.70	67.6	43.1	5.10	61.5	40.1	5.50
		72	84.2	36.5	4.60	80.1	34.3	4.90	75.1	31.7	5.20	69.0	28.8	5.60
4000	75	62	66.9	50.5	4.90	62.9	48.3	5.20	57.9	45.7	5.50	51.8	42.8	5.90
		67	74.9	38.8	5.00	70.8	36.5	5.30	65.8	34.0	5.60	59.7	31.0	6.00
		72	83.7	28.8	5.20	79.6	26.6	5.40	74.6	24.0	5.80	68.5	21.0	6.20
	80	62	68.8	58.9	5.00	64.8	56.7	5.20	59.8	54.1	5.60	53.7	51.2	6.00
		67	75.5	48.4	5.10	71.5	46.2	5.30	66.5	43.6	5.70	60.4	40.7	6.10
		72	83.0	37.5	5.20	79.0	35.3	5.40	74.0	32.7	5.80	67.9	29.7	6.20
4500	75	62	68.0	51.9	5.20	64.0	49.7	5.50	58.9	47.1	5.80	52.9	44.2	6.20
		67	75.9	40.0	5.40	71.9	37.8	5.60	66.9	35.2	6.00	60.8	32.2	6.40
		72	84.7	29.9	5.50	80.7	27.7	5.80	75.7	25.1	6.10	69.6	22.1	6.50
	80	62	67.9	59.0	5.60	63.9	56.8	5.90	58.9	54.2	6.20	52.8	51.3	6.60
		67	74.4	49.0	5.70	70.4	46.7	5.90	65.4	44.1	6.30	59.3	41.2	6.70
		72	82.3	38.1	5.70	78.2	35.9	6.00	73.2	33.3	6.30	67.1	30.3	6.70

Notes: 1) T.C. = total (Net) cooling in kBtuh; S.C. = Sensible Cooling in kBtuh; kW = Kilowatts

2) Ratings are based on the Factory Standard blower drive combination

3) For 208-230V Units, the ratings shown reflect 230V operation

4) Bolded Values indicate AHRI rating points

5) Energy Efficiency Ratio (EER) = T.C./kW

BLOWER PERFORMANCE - DOWN FLOW CONFIGURATION

P6SP-072 SERIES

Model	Motor Sheave Position	External Static Pressures (Inches Water Column)																							
		0.2			0.3			0.4			0.5			0.6			0.7			0.8			0.9		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-072 (1 HP) Factory Standard Drive Kit	Fully Closed																								
	1/2 Turn Open																			2403	981	1.00	2230	984	0.94
	1 Turn Open																			2509	956	1.01	2318	959	0.92
	1.5 Turns Open																			2362	930	0.91	2158	933	0.82
	2.0 Turns Open																								
	2.5 Turns Open																								
	3.0 Turns Open																								
	3.5 Turns Open																								
	4.0 Turns Open																								
	4.5 Turns Open																								
*5 Turns Open																									

Model	Motor Sheave Position	0.9			1.0			1.1			1.2			1.3			1.4		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-072 (1.5 HP) Medium Static Drive Kit	Fully Closed																		
	1/2 Turn Open																2455	1185	1.45
	1 Turn Open													2557	1155	1.47	2357	1157	1.40
	1.5 Turns Open							2770	1123	1.55	2563	1127	1.41	2402	1129	1.33	2182	1131	1.25
	2.0 Turns Open							2558	1098	1.36	2401	1102	1.25	2246	1103	1.19	2006	1105	1.09
	2.5 Turns Open				2595	1066	1.29	2392	1071	1.20	2222	1076	1.13						
	3.0 Turns Open	2598	1039	1.23	2405	1040	1.13	2225	1044	1.04	2043	1049	1.00						
	3.5 Turns Open	2437	1014	1.10	2232	1016	1.01												
	4.0 Turns Open	2275	988	0.97	2059	991	0.89												
	4.5 Turns Open	2097	960	0.87															
	*5 Turns Open	1919	931	0.77															

NOTES: * Denotes Factory sheave setting.

All Performance Curve data collected at 230V

Boldface type indicates factory recommended blower operating range.

Values include losses for air filters, unit casing, and dry evaporator coil.

See Accessory Performance Data for additional static pressure information.

Low Static Drive Consists of: 1 Hp Motor; 1VP40 Motor Sheave; AK66 Blower Pulley & A-44 belt

Med Static Drive Consists of: 1.5 Hp Motor; 1VP44 Motor Sheave; AK59 Blower Pulley & A-43 belt

BLOWER PERFORMANCE - HORIZONTAL FLOW CONFIGURATION

P6SP-072 SERIES

Model	Motor Sheave Position	External Static Pressures (Inches Water Column)																	
		0.2			0.3			0.4			0.5			0.6			0.7		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-072 (1 HP) Low Static Drive Kit	Fully Closed																		
	1/2 Turn Open																		
	1 Turn Open																2572	937	1.04
	1.5 Turns Open																2383	915	0.93
	2.0 Turns Open													2687	885	0.98	2460	889	0.90
	2.5 Turns Open													2518	862	0.88	2276	865	0.80
	3.0 Turns Open										2591	836	0.88	2349	838	0.79	2092	841	0.70
	3.5 Turns Open							2654	808	0.85	2425	812	0.77	2177	815	0.69			
	4.0 Turns Open				2720	781	0.82	2504	784	0.74	2258	788	0.67	2005	791	0.59			
	4.5 Turns Open				2584	755	0.75	2346	757	0.67	2081	760	0.60						
	*5 Turns Open	2665	727	0.74	2447	729	0.67	2188	730	0.60	1904	731	0.54						

Model	Motor Sheave Position	0.9			1.0			1.1			1.2			1.3			1.4		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-072 (1.5 HP) Medium Static Drive Kit	Fully Closed																		
	1/2 Turn Open																		
	1 Turn Open																	2558	1159
	1.5 Turns Open													2675	1126	1.47	2487	1133	1.37
	2.0 Turns Open												2710	1096	1.45	2492	1100	1.33	2195
	2.5 Turns Open										2663	1067	1.35	2465	1071	1.26			
	3.0 Turns Open							2682	1039	1.29	2452	1041	1.18	2219	1046	1.07			
	3.5 Turns Open				2677	1012	1.23	2469	1015	1.13									
	4.0 Turns Open	2716	985	1.17	2491	987	1.09	2255	990	0.98									
	4.5 Turns Open	2500	956	1.05	2250	959	0.94												
	*5 Turns Open	2284	926	0.93															

NOTES: * Denotes Factory sheave setting.

All Performance Curve data collected at 230V

Boldface type indicates factory recommended blower operating range.

Values include losses for air filters, unit casing, and dry evaporator coil.

See Accessory Performance Data for additional static pressure information.

Low Static Drive Consists of: 1 Hp Motor; 1VP40 Motor Sheave; AK66 Blower Pulley & A-44 belt

Med Static Drive Consists of: 1.5 Hp Motor; 1VP44 Motor Sheave; AK59 Blower Pulley & A-43 belt

BLOWER PERFORMANCE - DOWNFLOW CONFIGURATION

P6SP-090 SERIES

2 HP Low Static Drive: External Static Pressures (Inches Water Column)

Model	Motor Sheave Position	0.1			0.2			0.3			0.4			0.5			0.6			0.7			0.8			0.9			
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	
P6SP-090 (2 HP) Low Static Drive Kit	Fully Closed																												
	1/2 Turn Open																												
	1 Turn Open																												
	1.5 Turns Open																		3310	1069	1.78	3135	1074	1.69	2972	1076	1.53		
	2.0 Turns Open																		3139	1038	1.63	2938	1042	1.54	2737	1045	1.40		
	2.5 Turns Open											3395	1001	1.71	3265	1002	1.67	3134	1003	1.57	2968	1007	1.48	2741	1010	1.39	2501	1013	1.27
	3.0 Turns Open				3442	953	1.67	3296	952	1.57	3166	956	1.45	3012	957	1.34	2836	960	1.22	2629	962	1.15	2396	965	1.04				
	3.5 Turns Open	3445	923	1.63	3309	925	1.52	3162	925	1.43	3019	928	1.33	2850	930	1.25	2664	933	1.15	2424	934	1.06							
	4.0 Turns Open	3330	895	1.50	3176	897	1.36	3028	898	1.29	2871	900	1.21	2688	902	1.15	2492	905	1.08										
	*4.5 Turns Open	3187	866	1.42	3048	868	1.30	2886	870	1.24	2716	871	1.13	2512	873	1.03													
5.0 Turns Open	3044	837	1.34	2919	838	1.23	2744	841	1.19	2561	842	1.06	2336	843	0.91														

3HP Medium Static Drive: External Static Pressures (Inches Water Column)

Model	Motor Sheave Position	0.8			0.9			1			1.1			1.2			1.3			1.40			1.50			1.60		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-090 (3 HP) Medium Static Drive Kit	Fully Closed																									3323	1340	2.54
	1 Turn Open																		3365	1277	2.32	3127	1283	2.15	2978	1286	2.05	
	1.5 Turns Open															3320	1248	2.22	3126	1251	2.09	2911	1255	1.94	2751	1259	1.80	
	2.0 Turns Open												3326	1215	2.20	3064	1221	1.92	2887	1224	1.86	2695	1227	1.73				
	2.5 Turns Open							3447	1181	2.11	3286	1185	2.00	3074	1189	1.92	2856	1192	1.72	2643	1197	1.57						
	3.0 Turns Open				3442	1150	2.03	3256	1153	1.85	3077	1157	1.75	2822	1162	1.64	2647	1163	1.51									
	3.5 Turns Open	3415	1119	1.92	3247	1121	1.82	3072	1124	1.66	2849	1127	1.57	2598	1133	1.42												
	4.0 Turns Open	3252	1088	1.73	3052	1092	1.62	2887	1095	1.47	2621	1097	1.39															
	*4.5 Turns Open	3042	1059	1.62	2834	1063	1.53	2658	1065	1.39																		
	5.0 Turns Open	2831	1030	1.50	2615	1033	1.43	2428	1035	1.31																		

3HP High Static Drive: External Static Pressures (Inches Water Column)

Model	Motor Sheave Position	1.2			1.3			1.4			1.5			1.6			1.7			1.80			1.90			2.00			
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	
P6SP-090 (3 HP) High Static Drive Kit	Fully Closed																												
	1 Turn Open																			3356	1417	2.84	3201	1422	2.77				
	1.5 Turns Open																			3343	1388	2.78	3163	1392	2.58				
	2.0 Turns Open															3278	1360	2.60	3140	1363	2.49	2970	1367	2.32					
	2.5 Turns Open										3459	1324	2.68	3267	1328	2.50	3081	1333	2.36	2916	1339	2.20	2764	1343	2.06				
	3.0 Turns Open										3218	1300	2.36	3044	1303	2.22	2884	1306	2.11										
	3.5 Turns Open							3291	1269	2.29	3024	1274	2.11	2853	1276	1.96	2685	1279	1.84										
	4.0 Turns Open	3451	1235	2.28	3292	1238	2.11	3073	1243	1.99	2829	1247	1.85	2662	1249	1.71													
	*4.5 Turns Open	3232	1207	2.04	3043	1210	1.87	2828	1214	1.76	2624	1219	1.63																
	5.0 Turns Open	3012	1178	1.81	2794	1182	1.63	2583	1184	1.54																			

NOTES: * Denotes Factory sheave setting.

Low Static Drive Consists of: 2 Hp Motor; 1VP40 Motor Sheave; AK59 Blower Pulley & A-43 belt.

Med Static Drive Consists of: 3 Hp Motor; 1VP44 Motor Sheave; AK 54 Blower Pulley & A-42 belt.

High Static Drive Consists of: 3 Hp Motor; 1VP50 Motor Sheave; AK 56 Blower Pulley & A-43 belt.

Boldface type indicates factory recommended blower operating range.

Values include losses for air filters, unit casing, and dry evaporator coil.

See Accessory Performance Data table for additional static pressure information.

BLOWER PERFORMANCE HORIZONTAL FLOW CONFIGURATION

P6SP-090 SERIES

2 HP Low Static Drive: External Static Pressures (Inches Water Column)

Model	Motor Sheave Position	0.1			0.2			0.3			0.4			0.5			0.6			0.7			0.8			0.9		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-090 (2 HP) Low Static Drive Kit	Fully Closed																											
	1/2 Turn Open																											
	1 Turn Open																									3316	1065	1.82
	1.5 Turns Open																						3319	1036	1.73	3125	1039	1.64
	2.0 Turns Open																			3338	1007	1.66	3146	1008	1.53	2933	1012	1.46
	2.5 Turns Open													3464	970	1.68	3300	973	1.55	3121	977	1.49	2921	979	1.39	2700	983	1.28
	3.0 Turns Open										3442	937	1.59	3272	941	1.51	3110	944	1.39	2903	947	1.32	2695	950	1.25	2466	953	1.10
	3.5 Turns Open							3455	909	1.51	3293	912	1.46	3120	915	1.38	2932	917	1.28	2716	920	1.19	2484	923	1.12			
	4.0 Turns Open							3323	883	1.40	3143	886	1.33	2967	888	1.24	2753	890	1.16	2529	892	1.06						
	4.5 Turns Open	3433	846	1.37	3321	849	1.33	3155	853	1.27	2972	856	1.20	2774	858	1.11	2550	861	1.04									
	5.0 Turns Open	3331	817	1.23	3161	819	1.20	2986	822	1.13	2800	826	1.06	2580	828	0.97	2347	831	0.92									

3HP Medium Static Drive: External Static Pressures (Inches Water Column)

Model	Motor Sheave Position	0.8			0.9			1			1.1			1.2			1.3			1.40			1.50			1.60		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-090 (3 HP) Medium Static Drive Kit	Fully Closed																											
	1 Turn Open																											
	1.5 Turns Open																						3399	1231	2.37	3235	1236	2.23
	2.0 Turns Open																			3347	1203	2.26	3174	1206	2.08	2993	1210	1.98
	2.5 Turns Open													3423	1162	2.17	3268	1169	2.12	3106	1174	2.01	2924	1178	1.86			
	3.0 Turns Open							3410	1110	2.07	3321	1122	2.03	3198	1132	1.91	3033	1140	1.84	2864	1145	1.75	2673	1149	1.63			
	3.5 Turns Open	3411	1053	1.98	3309	1065	1.94	3221	1083	1.89	3114	1096	1.84	2964	1103	1.56	2783	1110	1.63	2590	1115	1.56						
	4.0 Turns Open	3228	1025	1.78	3131	1039	1.75	3031	1055	1.70	2906	1070	1.64	2729	1074	1.20	2533	1080	1.41	2315	1085	1.36						
	4.5 Turns Open	3136	1013	1.68	3005	1022	1.59	2851	1032	1.54	2681	1043	1.46	2492	1046	1.20												
	5.0 Turns Open	3043	1000	1.58	2878	1005	1.43	2670	1009	1.38	2455	1015	1.27															

3HP High Static Drive: External Static Pressures (Inches Water Column)

Model	Motor Sheave Position	1.2			1.3			1.4			1.5			1.6			1.7			1.80			1.90			2.00		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-090 (3 HP) High Static Drive Kit	Fully Closed																											
	1 Turn Open																											
	1.5 Turns Open																											
	2.0 Turns Open																									3435	1347	2.73
	2.5 Turns Open																						3334	1316	2.56	3178	1321	2.44
	3.0 Turns Open																3406	1278	2.52	3240	1285	2.41	3088	1289	2.25	2921	1294	2.15
	3.5 Turns Open													3434	1233	2.44	3296	1241	2.33	3168	1252	2.27	3000	1258	2.14	2869	1266	2.00
	4.0 Turns Open				3397	1178	2.34	3303	1192	2.24	3214	1205	2.15	3098	1217	2.11	2929	1226	2.01	2759	1231	1.87						
	4.5 Turns Open				3341	1171	2.20	3210	1181	2.10	3065	1189	2.00	2911	1197	1.90	2717	1204	1.79									
	5.0 Turns Open				3284	1163	2.06	3117	1169	1.96	2916	1173	1.85	2723	1177	1.68	2505	1181	1.57									

NOTES: * Denotes Factory sheave setting.

Low Static Drive Consists of: 2 Hp Motor; 1VP40 Motor Sheave; AK59 Blower Pulley & A-43 belt

Med Static Drive Consists of: 3 Hp Motor; 1VP44 Motor Sheave; AK 54 Blower Pulley & A-42 belt

High Static Drive Consists of: 3 Hp Motor; 1VP50 Motor Sheave; AK 56 Blower Pulley & A-43 belt Values include losses for air filters, unit casing, and dry evaporator coil.

Boldface type indicates factory recommended blower operating range.

See Accessory Performance Data table for additional static pressure information.

BLOWER PERFORMANCE - DOWNFLOW CONFIGURATION

P6SP-120 SERIES

2 HP Low Static Drive: External Static Pressures (Inches Water Column)

Model	Motor Sheave Position	0.1			0.2			0.3			0.4			0.5			0.6		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-120 (2 HP) Low Static Drive Kit	1.5 Turns Open																		
	2.0 Turns Open													4436	869	2.09	4274	873	2.03
	2.5 Turns Open							4633	845	2.08	4457	848	2.01	4281	851	1.94	4105	854	1.86
	3.0 Turns Open	4791	820	2.14	4667	823	2.04	4490	826	1.98	4317	830	1.88	4127	833	1.79	3936	835	1.70
	3.5 Turns Open	4658	800	1.98	4518	803	1.90	4337	805	1.83	4146	809	1.75	3956	811	1.66	3765	814	1.57
	4.0 Turns Open	4525	780	1.82	4368	783	1.76	4183	785	1.68	3975	788	1.61	3785	790	1.52	3594	792	1.44
	*4.5 Turns Open	4380	760	1.67	4201	762	1.61	4015	764	1.54	3810	767	1.47	3600	768	1.38	3389	770	1.29
	5.0 Turns Open	4235	739	1.53	4034	741	1.46	3847	743	1.39	3645	745	1.32	3415	747	1.23			
	5.5 Turns Open	4083	717	1.42	3882	718	1.36	3677	721	1.28	3459	723	1.18						
	6.0 Turns Open	3931	694	1.30	3730	696	1.26	3506	698	1.17									

External Static Pressures (Inches Water Column)

Model	Motor Sheave Position	0.7			0.8			0.9			1.00			1.10			1.20		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-120 (2 HP) Low Static Drive Kit	Fully Closed													3863	948	2.11	3658	951	1.95
	1/2 Turn Open							4128	927	2.15	3945	931	2.03	3722	936	1.91	3499	941	1.79
	1 Turn Open				4208	911	2.13	4021	915	2.05	3833	919	1.96	3646	923	1.88	3458	927	1.79
	1.5 Turns Open	4223	892	2.07	4050	895	1.98	3844	899	1.89	3639	903	1.81	3433	907	1.73			
	2.0 Turns Open	4083	876	1.93	3891	879	1.82	3668	883	1.74	3444	886	1.66						
	2.5 Turns Open	3902	856	1.75	3699	858	1.64	3455	862	1.56									
	3.0 Turns Open	3722	837	1.58	3507	838	1.47												
	3.5 Turns Open	3534	816	1.46															
	4.0 Turns Open																		

3 HP High Static Drive Kit: External Static Pressures (Inches Water Column)

Model	Motor Sheave Position	0.9			1.00			1.10			1.20			1.30			1.40		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-120 (3 HP) High Static Drive Kit	2.5 Turns Open																		
	3.0 Turns Open													4571	1068	3.01	4387	1071	2.87
	3.5 Turns Open										4562	1047	2.92	4366	1050	2.78	4171	1053	2.64
	4.0 Turns Open	4903	1020	3.01	4724	1023	2.90	4583	1026	2.80	4368	1029	2.69	4161	1032	2.56	3954	1035	2.42
	4.5 Turns Open	4734	1001	2.82	4561	1005	2.72	4385	1007	2.60	4169	1010	2.49	3942	1012	2.35	3715	1015	2.20
	5.0 Turns Open	4565	982	2.62	4397	986	2.54	4186	988	2.40	3969	990	2.29	3723	993	2.14	3476	995	1.99
	5.5 Turns Open	4370	962	2.42	4185	965	2.34	3970	967	2.21	3724	969	2.08	3477	972	1.93			
	6.0 Turns Open	4174	942	2.23	3973	944	2.14	3754	946	2.03	3479	949	1.87						

External Static Pressures (Inches Water Column)

Model	Motor Sheave Position	1.50			1.60			1.70			1.80			1.90			2.00		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-120 (3 HP) High Static Drive Kit	Fully Closed																		
	1 Turn Open																3862	1159	3.03
	1.5 Turns Open										4102	1136	3.00	3886	1140	2.89	3762	1142	2.82
	2.0 Turns Open							4119	1117	2.96	3891	1121	2.80	3766	1123	2.74	3534	1126	2.58
	2.5 Turns Open	4354	1092	3.00	4144	1096	2.86	3934	1099	2.72	3724	1103	2.59	3565	1105	2.50			
	3.0 Turns Open	4164	1075	2.74	3941	1078	2.61	3749	1081	2.49	3556	1084	2.37						
	3.5 Turns Open	3960	1056	2.52	3750	1059	2.40	3555	1061	2.28									
	4.0 Turns Open	3757	1037	2.30	3559	1039	2.18												
	4.5 Turns Open	3493	1017	2.07															
	5.0 Turns Open																		

NOTES: * Denotes Factory sheave setting.
 Low Static Drive Consists of: 2 Hp Motor; 1VP40 Motor Sheave; BK 75 Blower Pulley & B-49 belt
 High Static Drive Consists of: 3 Hp Motor; 1VP50 Motor Sheave; BK 75 Blower Pulley & B-51 belt
 Boldface type indicates factory recommended blower operating range.
 Values include losses for air filters, unit casing, and dry evaporator coil.
 See Accessory Performance Data table for additional static pressure information.

BLOWER PERFORMANCE HORIZONTAL FLOW CONFIGURATION

P6SP-120 SERIES

2 HP Low Static Drive: External Static Pressures (Inches Water Column)

Model	Motor Sheave Position	0.1			0.2			0.3			0.4			0.5			0.6		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-120 (2 HP) Low Static Drive Kit	1.5 Turns Open																		
	2.0 Turns Open																4521	870	2.17
	2.5 Turns Open													4549	850	2.09	4347	849	2.01
	3.0 Turns Open										4537	822	2.06	4355	825	1.95	4172	827	1.84
	3.5 Turns Open				4767	797	2.12	4575	799	2.02	4383	802	1.92	4190	804	1.82	3998	806	1.73
	4.0 Turns Open	4745	774	2.03	4584	776	1.93	4406	779	1.86	4228	781	1.78	4026	783	1.70	3824	785	1.61
	*4.5 Turns Open	4609	753	1.85	4445	755	1.77	4244	757	1.68	4048	759	1.62	3848	762	1.52	3619	764	1.43
	5.0 Turns Open	4473	732	1.66	4305	734	1.61	4081	735	1.51	3868	737	1.45	3669	740	1.35	3413	743	1.26
	5.5 Turns Open	4302	710	1.54	4116	712	1.47	3901	713	1.39	3678	715	1.32	3462	718	1.23			
	6.0 Turns Open	4131	687	1.41	3926	689	1.34	3721	691	1.26	3488	693	1.18						

External Static Pressures (Inches Water Column)

Model	Motor Sheave Position	0.7			0.8			0.9			1.00			1.10			1.20		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-120 (2 HP) Low Static Drive Kit	Fully Closed																		
	1/2 Turn Open													4044	927	2.12	3845	933	2.03
	1 Turn Open										4095	908	2.15	3895	913	2.06	3670	918	1.91
	1.5 Turns Open							4120	890	2.07	3921	894	1.96	3701	898	1.86	3457	903	1.73
	2.0 Turns Open	4331	869	2.08	4142	873	1.96	3945	876	1.86	3747	879	1.76	3507	883	1.65	3244	887	1.54
	2.5 Turns Open	4145	847	1.92	3946	854	1.81	3740	857	1.70	3535	860	1.59	3329	863	1.48			
	3.0 Turns Open	3958	825	1.76	3750	834	1.65	3536	837	1.53	3322	840	1.41						
	3.5 Turns Open	3769	806	1.64	3543	812	1.54	3317	818	1.43									
	4.0 Turns Open	3580	788	1.52	3336	790	1.42												
	*4.5 Turns Open	3369	766	1.34															
	5.0 Turns Open																		

3 HP High Static Drive Kit: External Static Pressures (Inches Water Column)

Model	Motor Sheave Position	0.9			1.00			1.10			1.20			1.30			1.40		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-120 (3 HP) High Static Drive Kit	3.0 Turns Open																		
	3.5 Turns Open																		
	4.0 Turns Open																4558	1027	2.90
	4.5 Turns Open										4784	1003	2.94	4568	1006	2.79	4352	1009	2.65
	5.0 Turns Open				4914	980	2.94	4738	982	2.80	4561	984	2.66	4378	987	2.53	4147	990	2.40
	5.5 Turns Open	4904	957	2.81	4717	959	2.70	4527	961	2.57	4317	964	2.43	4125	967	2.29	3897	970	2.16
	6.0 Turns Open	4685	937	2.58	4520	938	2.46	4317	940	2.34	4073	944	2.19	3871	946	2.04	3647	949	1.93

External Static Pressures (Inches Water Column)

Model	Motor Sheave Position	1.50			1.60			1.70			1.80			1.90			2.00		
		CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw	CFM	RPM	Kw
P6SP-120 (3 HP) High Static Drive Kit	1.5 Turns Open																		
	2.0 Turns Open																4083	1118	2.93
	2.5 Turns Open													4068	1096	2.87	3797	1099	2.68
	3.0 Turns Open							4327	1072	2.96	4137	1074	2.78	3824	1077	2.60	3511	1080	2.42
	3.5 Turns Open				4326	1052	2.87	4120	1054	2.71	3889	1057	2.54	3313	1063	2.26			
	4.0 Turns Open	4358	1030	2.74	4135	1033	2.60	3912	1036	2.46	3640	1040	2.29						
	4.5 Turns Open	4137	1012	2.50	3749	1016	2.35	3361	1020	2.20									
	5.0 Turns Open	3915	993	2.26	3363	999	2.10												
	5.5 Turns Open	3595	973	2.02															
	6.0 Turns Open																		

NOTES:

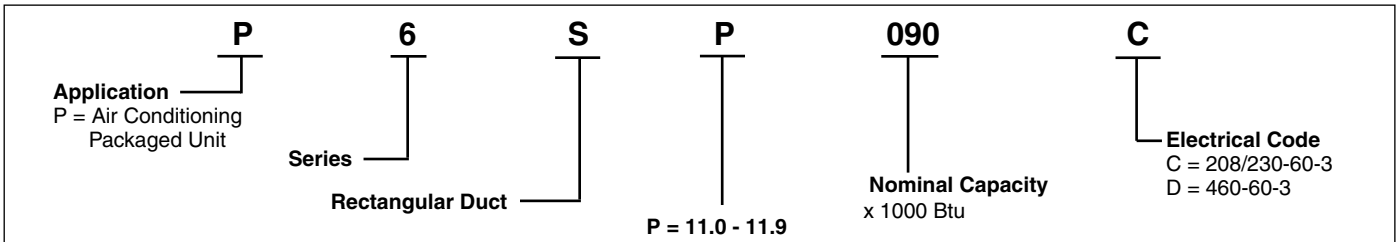
* Denotes Factory sheave setting.
 Low Static Drive Consists of: 2 Hp Motor; 1VP40 Motor Sheave; BK 75 Blower Pulley & B-49 belt
 High Static Drive Consists of: 3 Hp Motor; 1VP50 Motor Sheave; BK 75 Blower Pulley & B-51 belt
 Boldface type indicates factory recommended blower operating range.
 Values include losses for air filters, unit casing, and dry evaporator coil.
 See Accessory Performance Data table for additional static pressure information.

P6SP ELECTRICAL DATA

Model Number	Nominal Electric Supply	Voltage Range	Compressors		Outdoor motors (2) ea.	Indoor Motor	Single Circuit							Single Circuit				
							MCA							MOP				
Factory Drive Data:																		
P6SP		Min	Max	Qty	RLA	LRA	FLA	FLA	0 kW	9 kW	18 kW	30 kW	35 kW	0 kW	9 kW	18 kW	30 kW	35 kW
-072C	208 - 230/60/3	187	253	1	19	123	1.5	3.2 - 3.1	30 - 30	30 - 31	50 - 57	80 - 91	NA	45 - 45	45 - 45	55 - 60	90 - 100	NA
-072D	460/60/3	414	506	1	9.7	62	0.8	1.5	16	17	29	46	NA	20	20	30	50	NA
-090C	208 - 230/60/3	187	253	2	13.1	83.1	2.3	6.2 - 5.8	41 - 40	41 - 40	54 - 60	83 - 94	99 - 112	50 - 50	50 - 50	55 - 70	90 - 100	100 - 125
-090D	460/60/3	414	506	2	6.1	41	1.2	2.9	19	19	31	47	56	25	25	35	50	60
-120C	208 - 230/60/3	187	253	2	16.0	110	2.3	6.2 - 5.8	47 - 47	47 - 47	54 - 60	83 - 94	99 - 112	60 - 60	60 - 60	60 - 70	90 - 100	100 - 125
-120D	460/60/3	414	506	2	7.8	52	1.2	2.9	23	23	31	47	56	30	30	35	50	60
Medium Static Drive Data:																		
-072C	208 - 230/60/3	187	253	1	19	123	1.5	4.4 - 4.2	32 - 31	32 - 33	51 - 58	81 - 92	NA	50 - 45	50 - 45	60 - 60	90 - 100	NA
-072D	460/60/3	414	506	1	9.7	62	0.8	2.1	16	18	30	46	NA	25	25	35	50	NA
-090C	208 - 230/60/3	187	253	2	13.1	83.1	2.3	9.1 - 8.9	44 - 43	44 - 43	57 - 64	87 - 98	103 - 116	55 - 55	55 - 55	60 - 70	90 - 100	100 - 125
-090D	460/60/3	414	506	2	6.1	41	1.2	4.4	21	21	33	49	58	25	25	35	50	60
-120C	208 - 230/60/3	Not Applicable																
-120D	460/60/3																	
High Static Drive Data:																		
-072C	208 - 230/60/3	Not Applicable																
-072D	460/60/3																	
-090C	208 - 230/60/3	187	253	2	13.1	83.1	2.3	9.1 - 8.9	44 - 43	44 - 43	57 - 64	87 - 98	103 - 116	55 - 55	55 - 55	60 - 70	90 - 100	100 - 125
-090D	460/60/3	414	506	2	6.1	41	1.2	4.4	21	21	33	49	58	25	25	35	50	60
-120C	208 - 230/60/3	187	253	2	16.0	110	2.3	9.1 - 8.9	50 - 50	50 - 50	57 - 64	87 - 98	103 - 116	60 - 60	60 - 60	60 - 70	90 - 100	100 - 125
-120D	460/60/3	414	506	2	7.8	52	1.2	4.4	25	25	33	49	58	30	30	35	50	60

Notes: FLA = Full Load Amps MCA = Minimum Circuit Ampacity C Series, Electrical unit data shown for 208V - 230V
 RLA = Rated Load Amps MOP = Maximum Over-Current Protection D Series, Electrical unit data shown for 460V
 LRA = Locked Rotor Amps NA=Not Applicable

MODEL IDENTIFICATION CODE



ELECTRICAL DATA FOR POWER EXHAUST ACCESSORY KITS

Model	Part #	Volts	HP	CFM	FLA	Fuse	MCA	MOP
P6SP-072 & 090	547867	230	1/2	2350	3.0	6A	3.75	6.75
P6SP-072 & 090	547868	460	1/2	2350	1.5	3A	1.88	3.38
P6SP-120	547876	230	3/4	4900	4.0	9A	5.00	9.00
P6SP-120	547877	460	3/4	4900	2.0	4A	2.50	4.50

HIGH STATIC DRIVE KITS

P6SP SERIES UNITS

UNIT MODEL #	E.S.P. RANGE (IN-WG)	DOWNFLOW KIT	HORIZONTAL KIT
-072C	0.8 - 1.6	920609	920609
-072D		920560	920560
-090C	0.8 - 1.6	920607	920607
	1.2 - 2.0	920559	920559
-090D	0.8 - 1.6	920606	920606
	1.2 - 2.0	920558	920558
-120C	0.9 - 2.0	920395	920395
-120D		920396	920396

ACCESSORIES

NORDYNE Part #	Description	Weight	P6SP - 072	P6SP - 090	P6SP - 120
559914	Horizontal Supply & Return Kit	39	X	X	
547881	Horizontal Supply & Return Kit	49			X
547860	Hinged Roof Curb 8" High - K/D	70	X	X	X
547861	Hinged Roof Curb 14" High - K/D	125	X	X	X
547862	Hinged Roof Curb 18" High - K/D	155	X	X	X
547863	Hinged Roof Curb 24" High - K/D	220	X	X	X
559411	Hooded Hail Guard	62		X	
558857	Hooded Hail Guard	80			X
547864	0-35% Manual Outside Air Damper	30	X	X	
547874	0-35% Manual Outside Air Damper	41			X
547865	0-35% Motorized Damper - Only (Requires 547864 OR 547874 Panel Kit)	15	X	X	X
559375	Economizer - Modulating w/ Relief, Adapts Horizontal	125	X	X	
559374	Economizer - Modulating w/ Relief, Adapts Horizontal	181			X
920233	Sensor, Enthalpy, C7400A (For Economizer Differential Enthalpy Control)		X	X	X
547848	CO2 Sensor for economizer control - 4-9v dc		X	X	X
547867	Power Exhaust - Prop (208/230v/3ph), Adapts Horizontal See Note	143	X	X	
547868	Power Exhaust - Prop (460v/3ph), Adapts Horizontal See Note	143	X	X	
547876	Power Exhaust - Prop (208/230v/3ph), Adapts Horizontal See Note	152			X
547877	Power Exhaust - Prop (460v/3ph), Adapts Horizontal See Note	38			X
547869	20" Supply & Return Transition Round	154	X	X	
547870	20" Flush Mount Concentric Diffuser Round	157	X	X	
547871	20" Step Down Concentric Diffuser Round	36	X	X	
547878	18" x 28" Supply & Return Transition	162			X
547879	18" x 28" Flush Mount Concentric Diffuser	193			X
547880	18" x 28" Step Down Concentric Diffuser				X
558863	Duct Smoke Detector Photo Elect.		X	X	X
547893	Duct Smoke Detector, Remote Multi-signal control SSK 451		X	X	X
558863	Smoke Detector Sampling Tube DST3, 2-4 ft.		X	X	X
558864	Smoke Detector Sampling Tube DST5, 4-8 ft.		X	X	X
920463	Low Ambient Kit		X	X	X
920464	Bottom Power Entry Kit		X	X	
917454	Bottom Power Entry Kit				X
917423A	H5HK009Q-01 9KW - 208/240V, 3Ø		X	X	X
917424A	H5HK018Q-11 18KW - 208/240V, 3Ø		X	X	X
920614	H5HK030Q-22 30KW - 208/240V, 3Ø		X	X	X
917425A	H5HK035Q-22 35KW - 208/240V, 3Ø			X	X
920616	H5HK009S-01 9KW - 480V, 3Ø		X	X	X
917426A	H5HK018S-01 18KW - 480V, 3Ø		X	X	X
920615	H5HK030S-01 30KW - 480V, 3Ø		X	X	X
917427A	H5HK035S-01 35KW - 480V, 3Ø			X	X
920619	Thermostat-3 Stage Heat/2 Stage Cool (requires "O" & "B" terminals)		X	X	X

Note:

Requires separate branch circuit, see table Electrical Data For Power Exhaust Accessory Kits, pg 13



We Encourage
Professionalism



GENERAL TERMS OF LIMITED WARRANTY

NORDYNE will furnish a replacement for any part of this product which fails in normal use and service, in accordance with the terms of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the NORDYNE warranty department for a copy.

NORDYNE
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011D-0214 (Replaces 011D-0111)