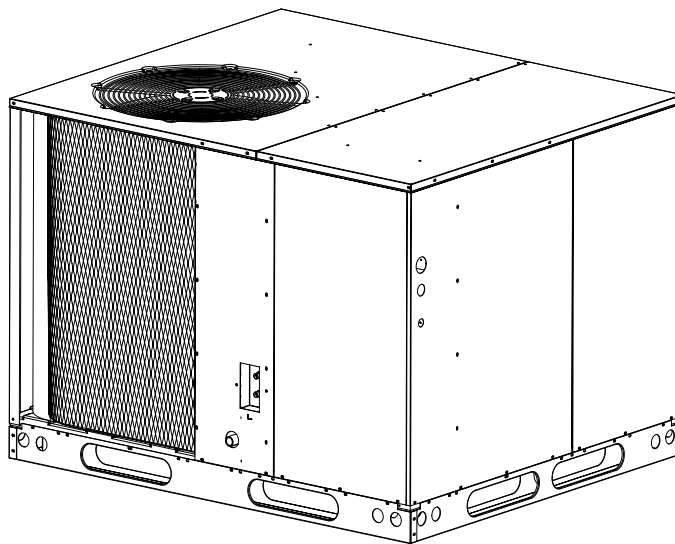


P6SD Series

13 SEER, Three Phase, Packaged Air Conditioning with R-410A 3-5 Ton Units

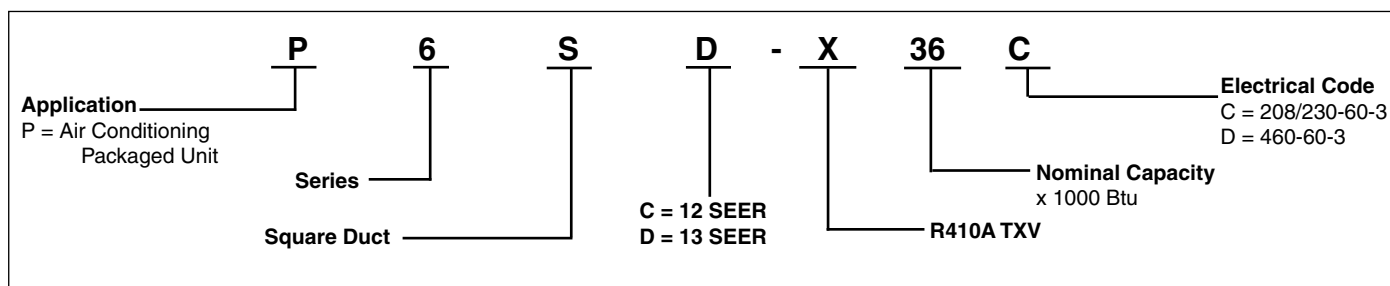
The P6SD Series packaged units are high efficiency self contained cooling units that can be installed on a roof or on a slab. The convertible unit design makes installations simple in all applications. Units are ETL and ETLc listed. The unit is truly designed with the contractor and the end user in mind.



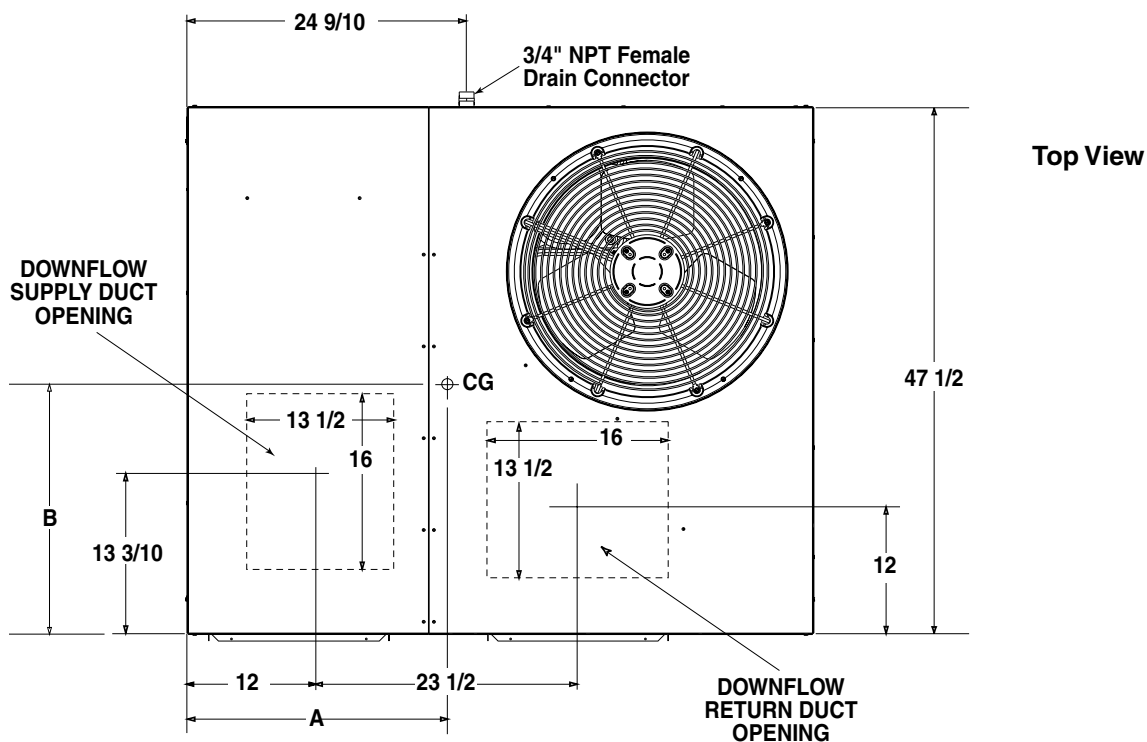
FEATURES AND BENEFITS

- **Compact Footprint**
Easy to handle and transport.
- **Heavy-Gauge, Full Perimeter Base Rails**
Facilitates forklift handling and curb mounting.
- **Convertible Air Delivery**
Horizontal or downflow to accommodate rooftop or horizontal application.
- **Galvanized Steel Cabinet**
with polyurethane finish provides 950 hour salt spray protection.
- **Plastic Mesh Hail Guard**
Will never rust and protect the coil from being damaged by balls, lawnmowers, hail etc.
- **R-410A Refrigerant**
Earth Friendly non-ozone depleting refrigerant.
- **Liquid Line Filter/Drier**
Insures clean refrigeration system.
- **Externally Accessible Service Ports**
Quick access to refrigerant system without disrupting operation.
- **Access to Controls and Major Components**
Easy in and out service.
- **Corrosion-Resistant Drain Pan**
Quickly drains away evaporator condensate.
- **Service Access Panels**
To all major components and the compressor. Designed to make servicing easier for the Contractor.
- **Factory Installed Filter Rack**
1" or 2" Capable.
- **TXV**
Externally equalized. Provides precise refrigerant control under varying load conditions.
- **High Pressure Switch**
Protects against abnormally High system Pressures.
- **Easy to Install**
Electric heat strip provides 9 or 15 KW of heat output.
- **Proven, Industry Standard Components**
Easier service and availability.
- **Quiet Operation**
Low vibration. 20" fan blade combined with custom venturi condenser fan.
- **Accessories**
Roof curbs, economizers, fresh air dampers and more.
- **One Year Commercial Parts Warranty**
- **5 year limited Compressor Warranty**

MODEL IDENTIFICATION CODE



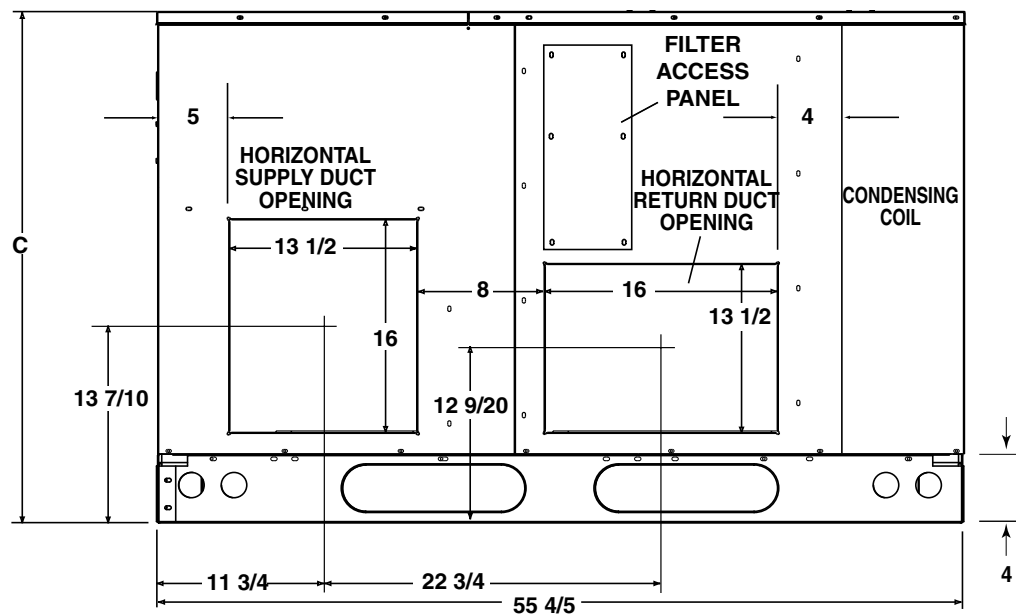
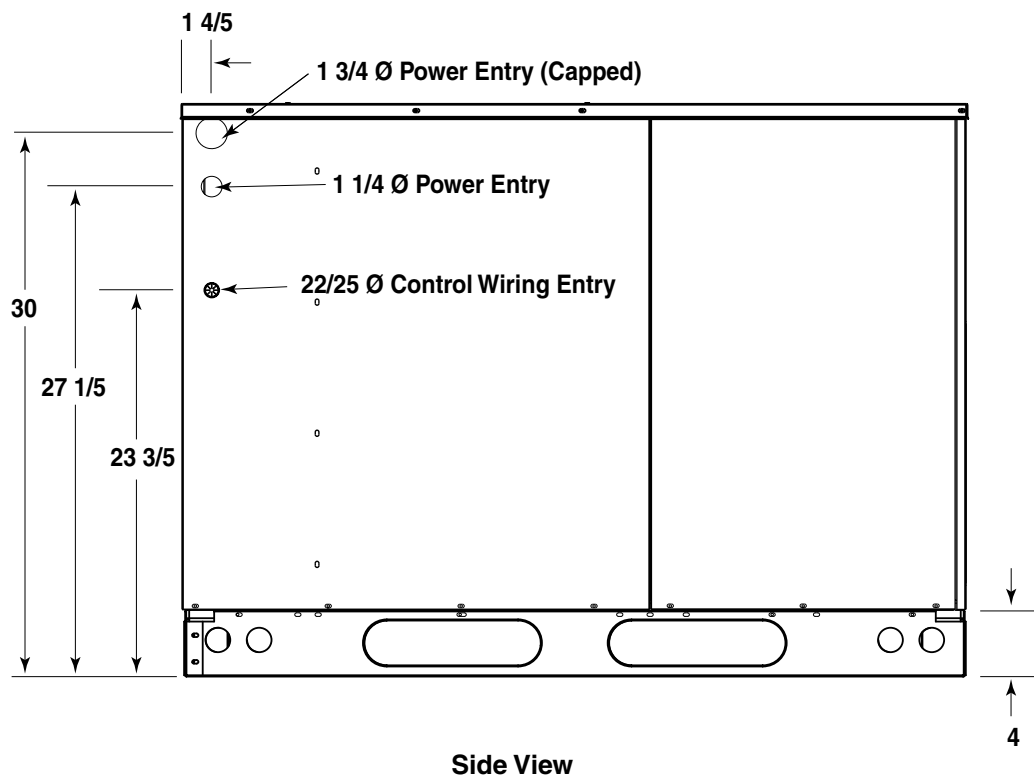
DIMENSIONS



P6SD Models

Model Number P6SD-	Unit Weight	Center of Gravity		Height (in inches) C	
		A	B	with base rails	without base rails
X36	330	27.5	26.5	39.0	35.3
X48	345	28.0	26.0	39.0	35.3
X60	415	29.5	26.5	43.0	39.3

DIMENSIONS (Continued)



SPECIFICATIONS

P6SD Models - 208/230V Three Phase

Model Number	P6SD		
	X36C	X48C	X60C
Performance			
Capacity -Cooling BTUH	34,200	46,000	58,000
Efficiency - SEER	13.30	13.00	13.30
EER (Btuh/watt)	11.2	11.5	11.00
Electrical Rating - 60 Hz			
Phase	3	3	3
Operating Voltage Range	187 - 253	187 - 253	187 - 253
Compressor Data			
Volts	208 / 230	208 / 230	208 / 230
Rated Load Amps	11.6	15.3	17.4
Lock Rotor Amps	73	83	110
Indoor Blower			
Type	DD / 3	DD / 3	Fixed Torque
Motor - HP / RPM	1/4 - 1075	1/2 - 1080	3/4
Motor - Amps	1.3	3.1	6.0
Outdoor Fan			
Motor - HP / RPM	1/4 - 1100	1/4 - 1100	1/4 - 1100
Motor - Amps	1.2	1.2	1.2
Fan Diameter / CFM	20/3600	20/3800	20/3800
Refrigerant Charge - Oz. R-410A	110	168	192
Net Weight lbs.	330	345	380
Shipping Weight lbs.	340	355	390
Filters (Field Installed)			
Style	Disposable	Disposable	Disposable
Size (Qty)	16 x 25 x 1 (2)		18 x 25 x 1 (2)
	Field convertible to two inches		

BLOWER PERFORMANCE

P6SD Models

Model Number P6SD-		External Static Pressure Drop - inches water column							
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
X36	High	1610	1562	1504	1442	1365	1295	1214	1109
	Medium	1367	1320	1271	1205	1138	1065	968	845
	* Low	1153	1102	1043	990	912	831	731	618
X48	High	2361	2278	2218	2141	2066	1976	1870	1758
	Medium	2026	1982	1935	1889	1822	1744	1660	1554
	* Low	1584	1568	1532	1489	1445	1387	1322	1236
X60	* * Tap T1	1515	1450	1380	1350	1300	1250	1200	1160
	* * Tap T2	1580	1520	1460	1400	1360	1300	1260	1230
	* * Tap T3	1740	1690	1650	1600	1540	1500	1460	1390
	* * Tap T4	1960	1910	1840	1820	1780	1740	1700	1600
	* * Tap T5	2090	2050	2010	1975	1940	1900	1850	1790

* Denotes factory set cooling speed

** Denotes factory set electric heating speed

NOTE: Airflow performance is with a dry coil

SPECIFICATIONS

P6SD Models - 460V Three Phase

Model Number	P6SD		
	X36D	X48D	X60D
Performance			
Capacity -Cooling BTUH	34,200	46,000	58,000
Efficiency - SEER	13.30	13.00	13.30
EER (Btuh/watt)	11.2	11.5	11.00
Electrical Rating - 60 Hz			
Phase	3	3	3
Operating Voltage Range	414 - 506	414 - 506	414 - 506
Compressor Data			
Volts	460	460	460
Rated Load Amps	6.4	6.9	8.6
Lock Rotor Amps	38	41	52
Indoor Blower			
Type	DD / 3	DD / 3	Fixed Torque
Motor - HP / RPM	1/4 - 1075	1/2 - 1080	3/4
Motor - Amps	0.8	1.7	3.2
Outdoor Fan			
Motor - HP / RPM	1/4 - 1100	1/4 - 1100	1/4 - 1100
Motor - Amps	0.6	0.6	0.6
Fan Diameter / CFM	20/3600	20/3800	20/3800
Refrigerant Charge - Oz. R-410A	110	168	192
Net Weight lbs.	330	345	380
Shipping Weight lbs.	340	355	390
Filters (Field Installed)			
Style	Disposable	Disposable	Disposable
Size (Qty)	16 x 25 x 1 (2)		18 x 25 x 1 (2)
	Field convertible to two inches		

AIR CONDITIONER ELECTRICAL DATA

208-230v Three Phase

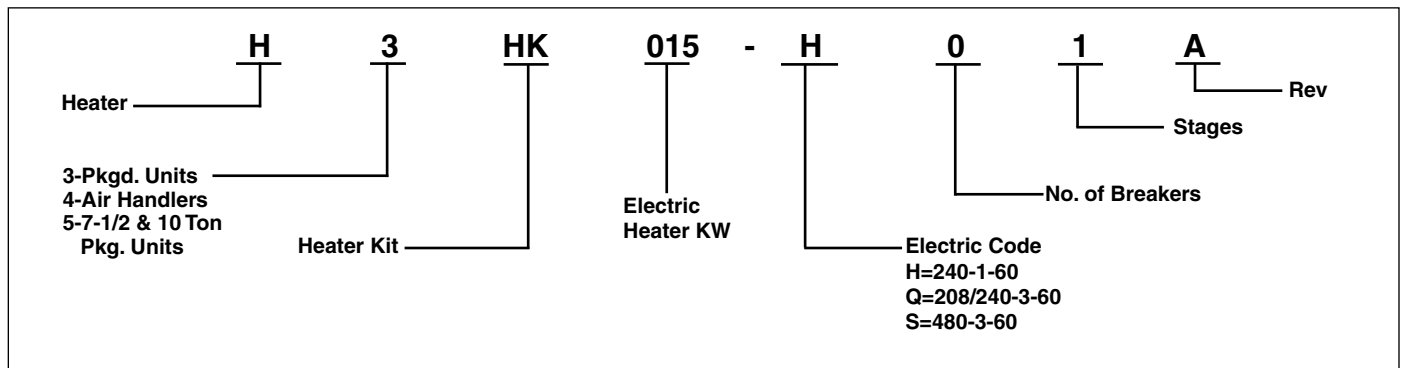
Model Number	Heater Installed Nom. KW	Single Supply Circuit Option					Multiple Supply Circuit Option									
		Single Supply Circuit Option					Circuit A (Compressor & Fan)					Circuit B (Blower & Heater)				
		Minimum Circuit Amp.	Rec, Wire Gage (60°C Cu)	Rec, Wire Gage (75°C Cu)	Rec, Wire Gage (90°C Cu)	Maximum Over-current Rating *	Minimum Circuit Amp.	Rec, Wire Gage (60°C Cu)	Rec, Wire Gage (75°C Cu)	Rec, Wire Gage (90°C Cu)	Maximum Over-current Rating *	Minimum Circuit Amp.	Rec, Wire Gage (60°C Cu)	Rec, Wire Gage (75°C Cu)	Rec, Wire Gage (90°C Cu)	Maximum Over-current Rating *
P6SD-X36C	0	17.0	12	12	12	25	-	-	-	-	-	-	-	-	-	-
	9	28.7	10	10	10	30	15.7	12	12	12	25	28.7	10	10	10	30
	15	46.8	6	8	8	50	15.7	12	12	12	25	46.8	6	8	8	50
P6SD-X48C	0	23.4	10	10	10	35	-	-	-	-	-	-	-	-	-	-
	9	31	8	8	8	35	20.3	10	10	10	35	31	8	8	8	35
	15	49	6	8	8	50	20.3	10	10	10	35	49	6	8	8	50
P6SD-X60C	0	29	10	10	10	45	-	-	-	-	-	-	-	-	-	-
	9	34.6	8	8	8	45	23	10	10	10	40	34.6	8	8	8	35
	15	52.7	6	6	8	60	23	10	10	10	40	52.7	6	6	8	60

*When overcurrent rating exceeds 60, internal circuit breakers must be installed in addition to branch circuit protection at distribution panel.

460v Three Phase

Model Number	Heater Installed Nom. KW	Single Supply Circuit Option					Multiple Supply Circuit Option									
		Single Supply Circuit Option					Circuit A (Compressor & Fan)					Circuit B (Blower & Heater)				
		Minimum Circuit Amp.	Rec, Wire Gage (60°C Cu)	Rec, Wire Gage (75°C Cu)	Rec, Wire Gage (90°C Cu)	Maximum Over-current Rating *	Minimum Circuit Amp.	Rec, Wire Gage (60°C Cu)	Rec, Wire Gage (75°C Cu)	Rec, Wire Gage (90°C Cu)	Maximum Over-current Rating *	Minimum Circuit Amp.	Rec, Wire Gage (60°C Cu)	Rec, Wire Gage (75°C Cu)	Rec, Wire Gage (90°C Cu)	Maximum Over-current Rating *
P6SD-X36D	0	9.4	14	14	14	15	-	-	-	-	-	-	-	-	-	-
	9	15.1	12	12	12	20	8.6	14	14	14	15	15.1	12	12	12	20
	15	24.5	10	10	10	25	8.6	14	14	14	15	24.5	10	10	10	25
P6SD-X48D	0	10.9	14	14	14	15	-	-	-	-	-	-	-	-	-	-
	9	16.2	12	12	12	20	9.2	14	14	14	15	16.2	12	12	12	20
	15	25.7	10	10	10	30	9.2	14	14	14	15	25.7	10	10	10	30
P6SD-X60D	0	14.6	14	14	14	20	-	-	-	-	-	-	-	-	-	-
	9	18.1	12	12	12	20	11.4	14	14	14	15	18.1	12	12	12	20
	15	27.5	10	10	10	30	11.4	14	14	14	15	27.5	10	10	10	30

MODEL IDENTIFICATION CODE



ACCESSORIES

913740 Circuit Breaker, Three Phase (3-Pole)

HEATER APPLICATION MATRIX

Model No. P6SD-	240 Volt		460 Volt	
	H3HK-009Q-01B 903854B	H3HK-015Q-01B 903855B	H3HK-009S-01A 903850B	H3HK-015S-01A 903851B
X36C	x	x	x	x
X48C	x	x	x	x
X60C	x	x	x	x

P6SD ACCESSORIES

Description	Part Number
Roof Curb (8")	547830
Roof Curb (14")	547831
Roof Curb (18")	547850
Roof Curb (24")	547851
Supply/return transition, 16"	547834
Supply/return transition, 18"	547835
Concentric diffuser, flush, 16"	547836
Concentric diffuser, flush, 18"	547837
Concentric diffuser, step down 16"	547838
Concentric diffuser, step down 18"	547839
Manual Fresh Air Damper	547832
Motorized Fresh Air Damper	547840
Economizer, downflow w/filter modulating	547833
Economizer, horizontal modulating	547841
Power Exhaust for use with downflow economizer (208/230 3 Phase) Special Order	555578
Power Exhaust for use with horizontal economizer (208/230 3 Phase) Special Order	555580
Power Exhaust for use with downflow economizer (460V 3 Phase) Special Order	555579
Power Exhaust for use with horizontal economizer (460V 3 Phase) Special Order	555581
HOOD TYPE HAIL GUARD 34" X 76" (3 or 4 Ton)	547846
HOOD TYPE HAIL GUARD 38" X 76" (5 Ton)	547847
Differential enthalpy sensor kit	920233
Control, CO2 sensor, wall mount	547848
DUCT SMOKE DETECTOR PHOTO ELEC	547892
MULTI SIGNAL CONTROL	547893
SAMPLING TUBE ST3	547894
SAMPLING TUBE ST5	547895
Low Pressure Switch Kit	913551
Low Ambient Kit	918837
Freezestat	917108
Duct Adaptor, 14" Round (2 each)	913812A
Outdoor Thermostat Kit	913852
Extreme Wind Mounting Kit (roof curb mount)	903696

P6SD EXPANDED RATINGS

P6SD-X36

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	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.
900	80	62	35.5	27.4	2.20	34.2	27.2	2.42	32.8	27.3	2.67	31.2	26.8	2.95	29.6	28.3	3.27	27.9	26.6	3.64
	80	67	38.7	22.3	2.23	37.1	22.2	2.45	35.5	22.4	2.70	33.9	22.0	2.98	32.1	21.7	3.30	30.1	20.4	3.67
	80	72	42.3	17.3	2.27	40.6	17.2	2.49	38.9	17.6	2.75	37.1	17.2	3.03	35.2	17.0	3.34	33.1	17.4	3.71
	75	63	36.0	21.7	2.21	34.6	21.6	2.43	33.1	21.7	2.68	31.5	21.3	2.95	29.8	19.7	3.28	28.0	21.2	3.64
1000	80	62	36.4	29.1	2.22	35.0	29.7	2.43	33.5	29.1	2.68	31.9	28.8	2.96	30.3	28.7	3.28	28.7	28.4	3.65
	80	67	39.4	23.6	2.24	37.8	24.3	2.46	36.2	23.7	2.71	34.4	23.5	2.99	32.6	23.5	3.31	30.7	23.7	3.67
	80	72	43.1	18.1	2.27	41.4	18.9	2.50	39.6	18.4	2.76	37.8	18.2	3.04	35.8	18.4	3.35	33.7	18.5	3.72
	75	63	36.7	22.9	2.21	35.2	23.5	2.43	33.7	22.9	2.68	32.0	22.7	2.96	30.4	22.8	3.28	28.6	22.7	3.65
1100	80	62	37.7	31.9	2.22	36.2	32.1	2.44	34.7	31.4	2.69	33.1	31.2	2.97	31.6	30.5	3.30	29.9	29.8	3.66
	80	67	40.7	26.0	2.25	39.0	26.3	2.48	37.3	25.7	2.73	35.5	25.6	3.00	33.6	25.5	3.32	31.6	25.6	3.69
	80	72	44.4	19.7	2.29	42.6	20.1	2.52	40.7	19.6	2.77	38.8	19.6	3.05	36.7	19.6	3.37	34.5	19.9	3.73
	75	63	37.9	25.2	2.22	36.4	25.4	2.45	34.8	24.8	2.70	33.1	24.7	2.97	31.3	24.4	3.29	29.4	24.5	3.66

P6SD-X48

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	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.
1250	80	62	47.9	37.2	2.82	46.1	37.0	3.12	44.2	37.2	3.45	42.1	36.6	3.84	40.0	38.5	4.27	37.7	36.3	4.77
	80	67	52.0	30.2	2.84	49.9	30.0	3.15	47.7	30.3	3.49	45.5	29.8	3.87	43.1	29.4	4.31	40.6	28.0	4.80
	80	72	56.7	23.3	2.86	54.4	23.2	3.18	51.9	23.6	3.54	49.5	23.1	3.92	46.9	22.8	4.35	44.2	23.4	4.85
	75	63	48.5	29.4	2.82	46.5	29.2	3.12	44.5	29.4	3.46	42.4	28.8	3.84	40.2	26.8	4.28	37.9	29.0	4.77
1400	80	62	49.1	39.8	2.82	47.3	40.6	3.13	45.2	39.7	3.46	43.1	39.3	3.85	41.0	39.2	4.29	39.0	38.6	4.78
	80	67	53.1	32.0	2.84	51.0	33.0	3.16	48.7	32.2	3.50	46.3	31.9	3.88	43.9	32.3	4.32	41.4	32.3	4.81
	80	72	57.8	24.5	2.87	55.4	25.6	3.19	52.9	24.8	3.54	50.4	24.6	3.93	47.7	24.8	4.36	44.9	25.0	4.86
	75	63	49.5	31.2	2.83	47.5	32.0	3.13	45.5	31.2	3.46	43.3	30.8	3.85	41.0	31.1	4.29	38.6	31.1	4.78
1550	80	62	50.2	42.8	2.83	48.4	43.1	3.14	46.2	42.1	3.47	44.2	41.8	3.86	42.2	40.8	4.30	40.1	39.9	4.80
	80	67	54.1	34.4	2.85	51.9	34.8	3.16	49.6	34.4	3.51	47.1	34.3	3.89	44.6	34.1	4.33	42.0	34.4	4.82
	80	72	58.9	26.2	2.87	56.4	26.7	3.20	53.8	25.9	3.55	51.1	26.0	3.95	48.4	26.0	4.37	45.5	26.4	4.86
	75	63	50.5	33.4	2.83	48.4	33.7	3.14	46.3	33.2	3.47	44.0	33.1	3.86	41.7	32.8	4.29	39.2	33.0	4.79

P6SD-X60

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	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.
1600	80	62	61.8	47.9	3.74	59.4	47.5	4.11	56.8	47.7	4.53	54.1	46.9	5.02	51.3	49.2	5.57	48.4	46.4	6.19
	80	67	66.8	39.3	3.83	63.9	39.1	4.19	61.1	39.4	4.61	58.1	38.6	5.09	55.0	38.0	5.65	51.7	36.0	6.26
	80	72	72.9	30.5	3.92	69.7	30.3	4.29	66.4	30.8	4.72	63.1	30.1	5.20	59.5	29.7	5.75	55.7	30.4	6.36
	75	63	62.1	38.2	3.74	59.6	38.0	4.11	56.9	38.2	4.54	54.2	37.3	5.02	51.2	34.5	5.57	48.2	37.0	6.18
1750	80	62	63.0	50.5	3.79	60.5	51.4	4.16	57.8	50.2	4.59	55.1	49.6	5.07	52.2	49.4	5.62	49.3	48.8	6.24
	80	67	67.8	41.2	3.87	64.9	42.3	4.24	62.0	41.2	4.67	58.9	40.7	5.14	55.7	40.7	5.70	52.3	40.6	6.31
	80	72	73.7	31.6	3.97	70.4	33.0	4.35	67.0	32.0	4.77	63.5	31.7	5.24	59.9	31.8	5.79	56.2	31.9	6.41
	75	63	63.2	40.0	3.81	60.6	41.0	4.16	57.8	39.8	4.59	54.9	39.3	5.07	51.9	39.2	5.62	48.8	39.0	6.23
1900	80	62	64.0	53.6	3.85	61.4	53.8	4.21	58.7	52.6	4.64	56.0	52.2	5.13	53.1	51.3	5.68	50.4	50.1	6.30
	80	67	68.7	43.6	3.92	65.8	44.1	4.29	62.7	42.9	4.72	59.6	42.8	5.20	56.3	42.4	5.75	52.8	42.6	6.36
	80	72	74.3	33.5	4.02	70.8	34.1	4.39	67.5	33.1	4.81	64.0	33.0	5.29	60.5	32.8	5.84	56.7	33.1	6.46
	75	63	64.1	42.3	3.85	61.4	42.6	4.21	58.5	41.4	4.64	55.6	41.2	5.12	52.5	40.7	5.66	49.3	40.8	6.28

We Encourage Professionalism



Through Technician Certification by NATE

