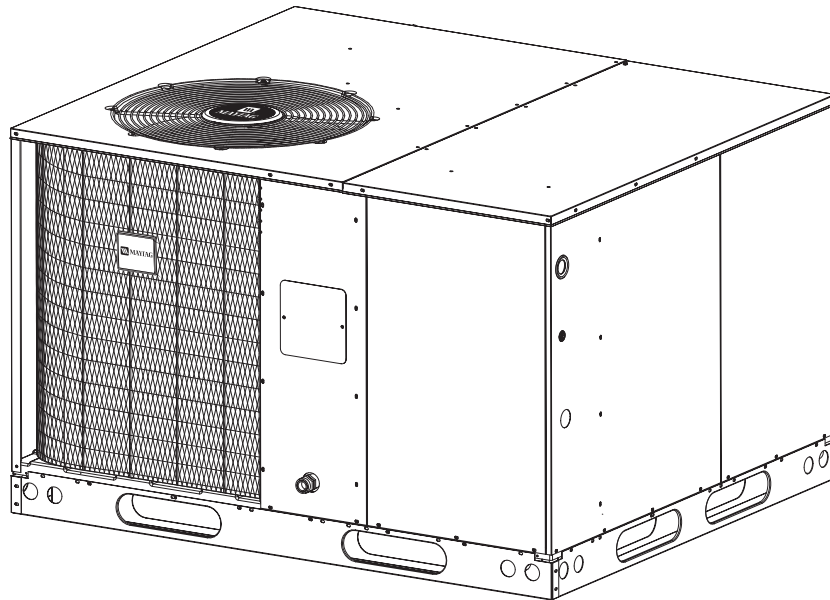




TECHNICAL SPECIFICATIONS

Model PPH1SD Series



M1010 Product Line

**Single Packaged Heat Pump
13 SEER - 2 – 5 Ton Units**

- **10YEAR
WARRANTY**
- **WORRY-FREE
PERFORMANCE**
- **5YEAR
DEPENDABILITY
PROMISE**

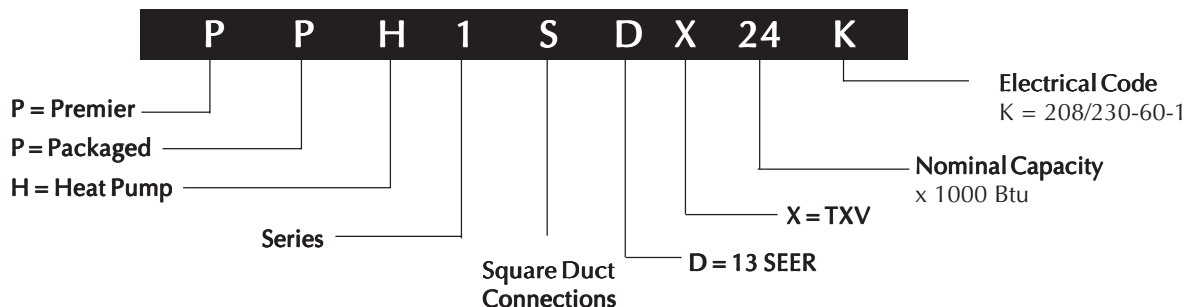


The PPH1SD Series single packaged heat pumps are high efficiency self contained cooling and heating units that can be installed on a roof or on a slab. The convertible unit design makes installations simple in all applications. Units are ETL and ETLc listed. The unit is truly designed with the contractor and the consumer in mind.

Features and Benefits

- **Compact Footprint/Low Profile**
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** – Unit is trimmed in a silicone-protected polyester finish with a 950 hour salt spray finish that resists corrosion 50% better than comparable units.
- **Plastic Coated Coil Guard and Mesh Hail Guard**
Will never rust and protects the coil from being damaged by balls, lawnmowers, hail etc.
- **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**
Allows easy access to all major components and the compressor. Designed to make servicing easier for the Contractor.
- **Easy to Install**
Electric heat strip provides up to 20 KW of heat output.
- **Proven, Industry Standard Components**
Easier service and availability.
- **ECM Variable Speed Motor**
Advanced technology allows the motor to automatically adjust to different static loads. The variable speed motor allows for extra quiet operation and improved air quality.
- **Quiet Operation and Low Vibration**
20" fan blade combined with custom venturi condenser fan.
- **10 Year Residential Parts and Labor Warranty and 5 Year Dependability Promise**
The best warranty in the business.

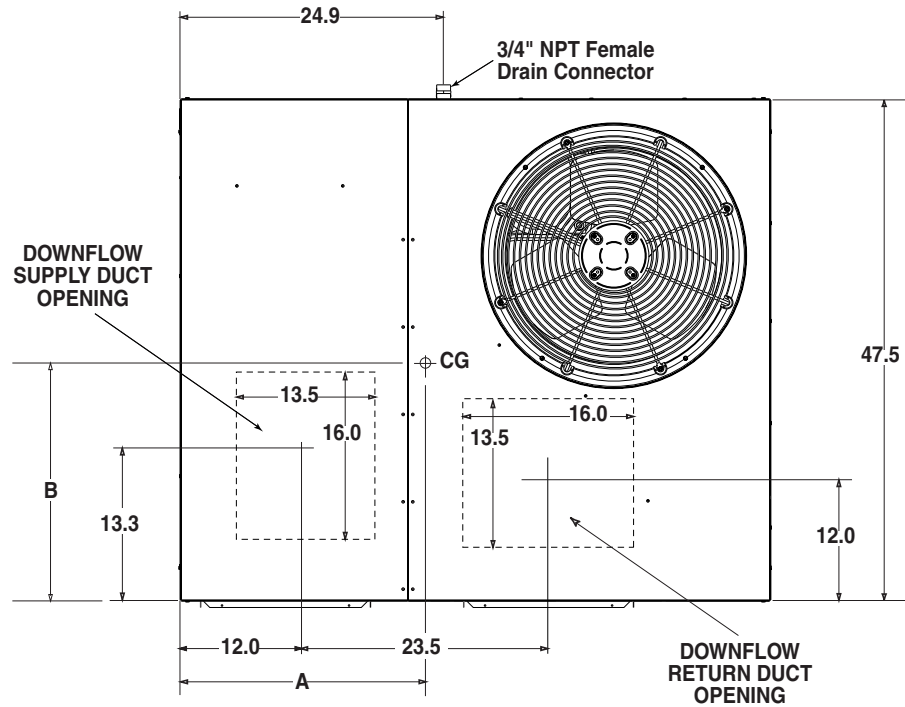
IDENTIFICATION CODE



SPECIFICATIONS

Model Number	PPH1SD					
	X24K	X30K	X36K	X42K	X48K	X60K
Performance						
Capacity - Heating BTUH	22,000	29,800	33,500	41,600	45,000	51,000
Efficiency - HSPF	7.7	7.7	7.7	7.7	7.7	7.7
Capacity - Cooling BTUH	24,000	27,500	34,800	41,000	46,000	55,500
Efficiency - SEER	13.00	13.00	13.00	13.00	13.00	13.00
EER (Btuh/watt)	11.0	11.0	11.0	11.0	11.0	11.0
Electrical Rating - 60 Hz						
Phase	1	1	1	1	1	1
Operating Voltage Range	187-253	187-253	187-253	187-253	187-253	187-253
Compressor Data						
Volts	208-230	208-230	208-230	208-230	208-230	208-230
Rated Load Amps	12.1	15.0	17.9	20.0	23.6	28.0
Lock Rotor Amps	54	72.5	88	104	137	148
Indoor Blower						
Type	Var. Sp.	Var. Sp.	Var. Sp.	Var. Sp.	Var. Sp.	Var. Sp.
Motor HP	1/2	1/2	1/2	3/4	3/4	3/4
Motor RPM Range	490-740	490-740	490-740	645-950	645-950	645-950
Motor - Amps	4.3	4.3	4.3	6.8	6.8	6.8
Outdoor Fan						
Motor - HP / RPM	1/4 - 1100	1/4 - 1100	1/4 - 1100	1/4 - 1100	1/4 - 1100	1/3 - 1100
Motor - Amps	1.2	1.2	1.2	1.2	1.2	1.5
Fan Diameter / CFM	20 / 3800	20 / 3800	20 / 3800	20 / 3800	20 / 3800	20 / 4000
Refrigerant Charge - Oz.						
	120	114	127	283	293	224
Net Weight lbs.						
	450	455	460	565	570	580
Shipping weight lbs.						
	460	465	470	575	580	590

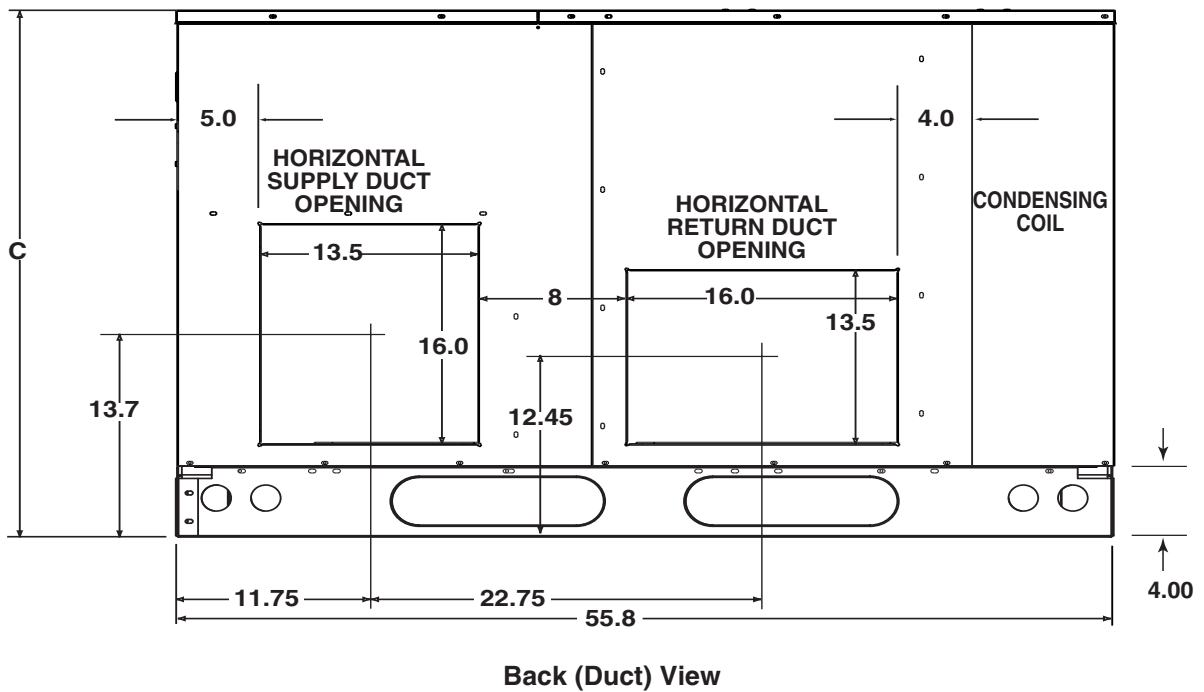
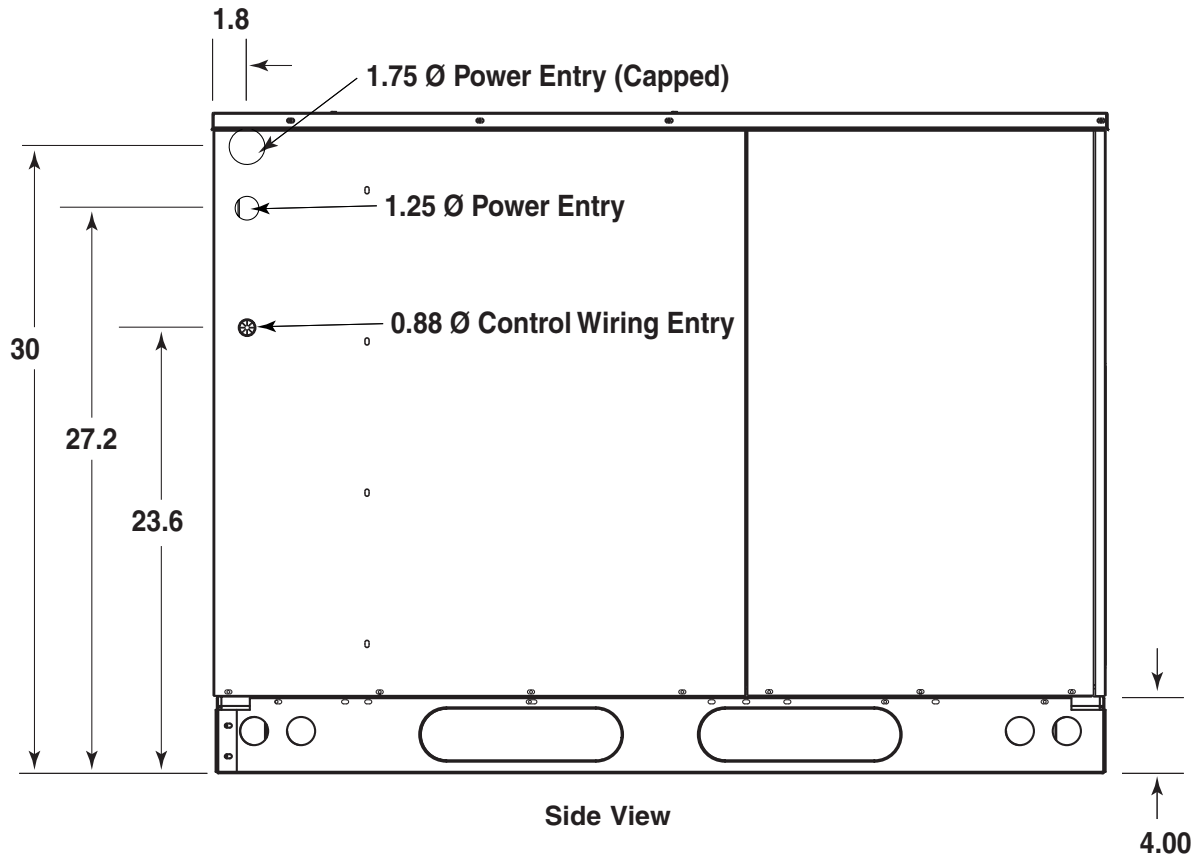
DIMENSIONS



Top View

Model Number PPH1SD	Unit Weight	Center of Gravity		Height (in inches)	
		A	B	C	
				with base rails	without base rails
X24	450	28.0	25.5	39.0	35.3
X30	455	28.0	25.5	39.0	35.3
X36	460	28.0	25.5	39.0	35.3
X42	565	29.5	26.0	43.0	39.3
X48	570	29.5	26.0	43.0	39.3
X60	580	29.5	26.0	43.0	39.3

DIMENSIONS continued



ELECTRICAL DATA

Model Number	Heater Installed Nom. KW	Single Supply Circuit Option												Multiple Supply Circuit Option											
		Circuit A (Compressor & Fan)						Circuit B (Blower & Heater)						Circuit C (Heater Only)											
		Minimum Circuit Amp.	Rec Wire Gauge (60° C Cu)	Rec Wire Gauge (75° C Cu)	Rec Wire Gauge (90° C Cu)	Maximum Over- current Rating*	Minimum Circuit Amp.	Rec Wire Gauge (60° C Cu)	Rec Wire Gauge (75° C Cu)	Rec Wire Gauge (90° C Cu)	Maximum Over- current Rating*	Minimum Circuit Amp.	Rec Wire Gauge (60° C Cu)	Rec Wire Gauge (75° C Cu)	Rec Wire Gauge (90° C Cu)	Maximum Over- current Rating*									
PPH1SDX24K	0	20.6	10	10	10	30	-	-	-	-	29.3	10	-	-	-	-	-	-							
	5	45.6	6	8	8	50	16.3	12	12	12	25	10	10	10	10	30	-	-							
	8	60.2	4	6	6	70	16.3	12	12	12	25	8	8	8	45	-	-								
	10	70.6	3	4	6	80	16.3	12	12	12	25	6	6	6	60	-	-								
	15	95.6	1	3	3	100	16.3	12	12	12	25	6	6	8	60	-	-								
PPH1SDX30K	0	24.3	10	10	10	35	-	-	-	-	-	-	-	-	-	-	-	-							
	5	49.3	6	8	8	50	20	12	12	12	30	10	10	10	30	-	-								
	8	63.8	4	6	6	70	20	12	12	12	30	8	8	8	45	-	-								
	10	74.3	3	4	6	80	20	12	12	12	30	6	6	8	60	-	-								
	15	99.3	1	3	3	100	20	12	12	12	30	6	6	8	60	-	-								
PPH1SDX36K	0	27.9	10	10	10	45	-	-	-	-	-	-	-	-	-	-	-	-							
	5	52.9	6	6	8	60	23.6	10	10	10	40	10	10	10	30	-	-								
	8	67.5	4	4	6	70	23.6	10	10	10	40	8	8	8	45	-	-								
	10	77.9	3	4	4	80	23.6	10	10	10	40	6	6	8	60	-	-								
	15	102.9	1	2	3	110	23.6	10	10	10	40	6	6	8	60	-	-								
PPH1SDX42K	0	33.0	8	8	8	50	-	-	-	-	-	-	-	-	-	-	-	-							
	5	58.0	4	6	6	70	26.2	10	10	10	45	8	8	8	35	-	-								
	8	70.6	3	4	6	80	26.2	10	10	10	45	6	6	8	50	-	-								
	10	83.0	3	4	4	90	26.2	10	10	10	45	4	6	6	60	-	-								
	15	108.0	1	2	3	110	26.2	10	10	10	45	4	6	6	60	-	-								
PPH1SDX48K	0	133.0	0	0	1	150	26.2	10	10	10	45	4	6	6	60	-	-								
	5	37.5	8	8	8	60	-	-	-	-	-	-	-	-	-	-	-								
	8	62.5	4	6	6	80	30.7	8	8	8	50	8	8	8	35	-	-								
	10	77.1	3	4	4	90	30.7	8	8	8	50	6	6	8	50	-	-								
	15	112.5	0	2	2	125	30.7	8	8	8	50	4	6	6	60	-	-								
PPH1SDX60K	0	137.5	0	0	1	150	30.7	8	8	8	50	4	6	6	60	-	-								
	5	43.3	6	8	8	70	-	-	-	-	-	-	-	-	-	-	-								
	8	68.3	4	4	6	90	36.5	8	8	8	60	8	8	8	35	-	-								
	10	82.9	3	4	4	100	36.5	8	8	8	60	6	6	8	50	-	-								
	15	118.3	0	1	2	125	36.5	8	8	8	60	4	6	6	60	-	-								
20	143.3	0	0	1	150	36.5	8	8	8	60	4	6	6	60	-	-									

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

BLOWER PERFORMANCE

Basic Air-Flow Settings

1/2 HP Motor							3/4 HP Motor								
CFM	Switch				Nominal			CFM	Switch				Nominal		
	1	2	3	4	2.0	2.5	3.0		1	2	3	4	3.5	4.0	5.0
490	0	0	0	1				880	0	0	0	1			
575	0	0	0	0				975	0	0	0	0			
660	0	0	1	0				1080	0	0	1	0			
770	1	0	0	1				1125	1	0	0	1			
860	1	0	0	0				1265	1	0	0	0			
895	0	1	0	1				1390	0	1	0	1			
970	1	0	1	0				1455	1	0	1	0			
1060	0	1	0	0				1590	0	1	0	0			
1145	1	1	0	1				1690	1	1	0	1			
1170	0	1	1	0				1785	0	1	1	0			
1350	1	1	0	0				1915	1	1	0	0			
1510	1	1	1	0				2125	1	1	1	0			

Note: 1=ON, 0=OFF

Air Flow Selection for Variable Speed Motors

Nominal KW	CFM	Switch Number								
		1	2	3	4	5	6	7	8	
0-5	500						0	0		
6-10	700						1	0		
11-15	900						0	1		
16-20	1100						1	1		

Note: 1=ON, 0=OFF

Minimum Electric Heat Airflow

Delay Description	Switch Number								
	1	2	3	4	5	6	7	8	
Delay A								0	0
Delay B								0	1
No Delay								1	0
De-Hum.								1	1

Note: 1=ON, 0=OFF

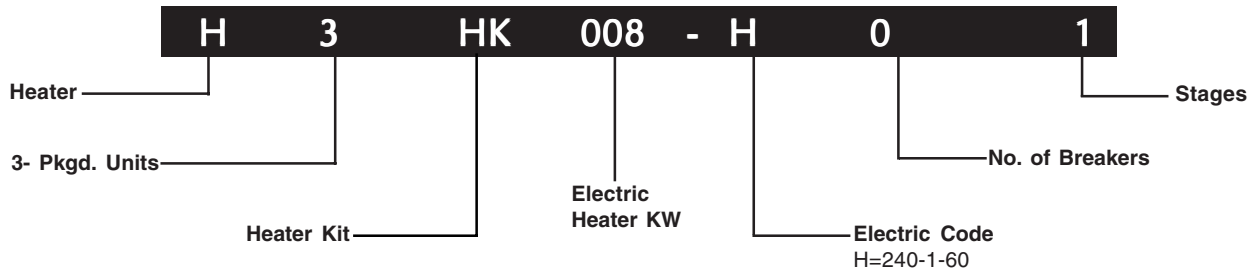
Delay Settings

HEATER APPLICATION MATRIX

Model Number	H3HK-005H-01	H3HK-008H-01	H3HK-010H-01	H3HK-015H-01	H3HK-020H-01	H3HK-015H-21	H3HK-020H-21
	917166	917167	917168	917169	917170	917172	917173
PPH1SDX24K	X	X	X(2)	X(2)	NA	X	NA
PPH1SDX30K	X	X	X(2)	X(2)	NA	X	NA
PPH1SDX36K	X	X	X(2)	X(2)	NA	X	NA
PPH1SDX42K	X(2)	X(2)	X(2)	X(3)	X(3)	X(1)	X(1)
PPH1SDX48K	X(2)	X(2)	X(2)	X(3)	X(3)	X(1)	X(1)
PPH1SDX60K	X(2)	X(2)	X(2)	X(3)	X(3)	X(1)	X(1)

NA = Not Applicable.
 () = Number of internal circuit breaker kits required.

IDENTIFICATION CODE



ACCESSORIES

Description	Part Number
Roof Curb (8")	547830
Roof Curb (14")	547831
Roof Curb (18")	547850
Roof Curb (24")	547851
Filter Rack, All Downflow Applications (not required with economizer)	547885
Filter Kit (not required with economizer) for Horizontal Applications PPH1SDX36	547888
Filter Kit (not required with economizer) for Horizontal Applications PPH1SDX48K - PPH1SDX60K	547889
Universal Hard Start Kit	912933
High Pressure Switch Kit	913550
Low Ambient Kit	913549A
P-Trap Kit	913810
Outdoor Thermostat Kit	913852



Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations.

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