FRIEDRICH

ZoneAire® Premier Series

PTACs

COOLING WITH ELECTRIC HEAT, HEAT PUMPS

PURCHASER	P.O. #	DATE
PROJECT	LOCATION	
ENGINEER	ARCHITECT	
SUBMITTED BY	FOR APPROVAL	FOR REFERENCE

ITEM	PLAN DESIGNATION	QUANTITY	COOLING Btu	VOLTAGE	FRIEDRICH MODEL

ACCESSORIES

PDXWSA	Wall Sleeve	Qty	
PDXWSEZ	Wall Sleeve	Qty	
PDXWSEXT18	Deep Wall Sleeve- For walls up to 17 1/2" deep	Qty	
PDXWSEXT24	Deep Wall Sleeve- For walls up to 23 1/2" deep	Qty	
PDXWSEXT	Custom Deep Wall Sleeve, For walls from 13 1/4" to 25 1/2" deep	Qty	
PXGA	Standard Outdoor Louver	Qty	
PXAA	Architectural Louver, clear	Qty	
PXBG	Architectural Louver, beige	Qty	
PXSC	Architectural Louver, color matched	Qty	
PDXRTB	Remote Thermostat Escutcheon Kit	Qty	
PXDR10	Condensate Drain Kit (pkg/10)	Qty	
PXSBA	Sub Base	Qty	
PXCJA	Conduit Kit w/ Junction Box	Qty	
PDXDAA	Lateral Duct Adapter	Qty	
PDXDEA	Lateral Duct Extension	Qty	
PXFTA	Replacement Filters (Set of 10)	Qty	
UVT1	Friedrich® UV Single Bulb Germicidal UV Kit	Qty	
APWM1	FreshAire® Purification iWaves Series M	Qty	

PXSB23020	Electrical Subbase - 230V 15A and 20A	Qty	
PXSB23030	Electrical Subbase - 230V 30A	Qty	
PXSB26515	Electrical Subase - 265V 15A	Qty	
PXSB26520	Electrical Subbase - 265V 20A	Qty	
PXSB26530	Electrical Subbase - 265V 30A	Qty	
RT7	Wired Digital Thermostat	Qty	
RT7P	Wired Programmable Digital Thermostat	Qty	
EMRT2	Wired Thermostat with Occupancy Sensor	Qty	
EMWRT2	Wireless Thermostat with Occupancy Sensor	Qty	
VRPXEMRT2	Wired 12v Intelligent Controller for FreshAire PTAC	Qty	
VRPXEMWRT2	Wireless 12v Intelligent Controller for FreshAire PTAC	Qty	
WRT2	Wireless Digital Thermostat	Qty	
EMOCT	Online Connection Kit	Qty	
EMRAF	Remote Access Fee	Qty	
EMRHCF	Energy Management Remote Humidity Control Fee	Qty	
PXPC23015A	LCDI 230V 15A Cord - 2.5 kW	Qty	
PXPC23020A	LCDI 230V 20A Cord - 3.5 kW	Qty	
PXPC23030A	LCDI 230V 30A Cord - 5.0 kW	Qty	
PXPC26515A	Non-LCDI 265V 15A Cord - 2.5 kW	Qty	
PXPC26520A	Non-LCDI 265V 20A Cord - 3.5 kW	Qty	
PXPC26530	Non-LCDI 265V 30A Cord - 5.0 kW	Qty	

FEATURES

Constant room comfort monitoring

"Instant Heat" heat pump mode quickly heats a room to the desired temperature for increased comfort

Even heat monitoring checks room temperature and automatically adds heat boost if necessary

Room freeze protection- heat initiated if temperature falls to 40°F in an unoccupied room, raising temperature to 46°F

Dual motors for quiet operation

FreshAire® IAQ Ready

Durable, powder coat paint finish

Indoor coil frost sensor protects the compressor to lengthen the life of the unit.

Random compressor restart protects electrical systems from overload when power is restored

Separate heat and cool range limits

Desk control ready allowing hotel owners to control units from a central location

Condensate removal system uses slinger ring technology

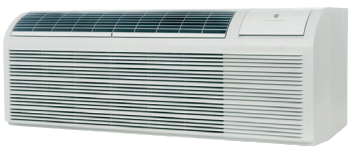
Electronic defrost control ensures more run time in the efficient heat pump mode

Fresh air damper control to bring in fresh outside air when desired

Washable, easy access air filters

Service error code memory storage

Emergency heat override



SPECIFICATIONS

PTAC Electric Heat models

Models ending in 'K' are 230/208V, models ending in 'R' are 265V

Model	PDE07K3SG	PDE07R3SG	PDE09K3SG	PDE09R3SG	PDE12K3SG	PDE12R3SG	PDE15K5SG	PDE15R5SG
PERFORMANCE DATA								
Cooling Btu	7200/7000	7500	10200/9900	10000	12300/12100	12300	14700/14400	14800
Cooling Watts	560/540	560	775/760	775	1015/1000	1015	1390/1365	1390
Energy Efficiency Ratio, EER	13.3/13.3	13.3	12.5/12.1	12.1	11.6/11.6	11.6	10.4/10.4	10.4
Heater Size (kW)	3.6	3.6	3.6	3.6	3.6	3.6	5	5
Moisture Removal (pints/hr.)	1.69	1.69	2.11	2.11	2.74	2.74	3.17	3.17
Sensible Heat Ratio	86%	86%	85%	85%	75%	75%	67%	67%
ELECTRICAL DATA								
Voltage (1 Phase, 60 Hz)	230/208	265	230/208	265	230/208	265	230/208	265
Volt Range	253 – 187	292 – 239	253 – 187	292 – 239	253 – 187	292 – 239	253 – 187	292 – 239
Current (Amps)	2.4/2.6	2.1	3.7/3.9	3.3	4.9/5.1	4.2	6.2/6.7	5.4
Power Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Compressor LRA	13.0	12.0	19.5	13.5	21.5	19.0	28.9	21.6
Compressor RLA	2.16	2.2	3.5	3.0	4.7	3.9	5.9	5.05
Outdoor Fan Motor, HP	0.080	0.080	0.080	0.080	0.086	0.086	0.086	0.086
AIRFLOW DATA								
Indoor CFM, HIGH	311.91	311.91	355/325	355	400/390	400	400/390	400
Indoor CFM, LOW	282.48	282.48	300/275	300	325/310	325	325/310	325
Vent CFM	75	75	75	75	75	75	75	75
PHYSICAL DATA								
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (all models)							
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" (all models)							
Cut Out Dimensions (H x W x D)	16 1/4" x 42 1/4" (all models)							
Net Weight (lbs.)	110.25	110.2	115	115	119	118	121	121
Shipping Weight (lbs.)	132.3	132.3	135	135	139	138	140	140
R-410A Charge (oz.)	17.64	17.64	24	24	36	36	36	36
Dimensions with Packaging (inches)	17 7/8" x 45" x 25 1/4" (all models)							

R-32 Refrigerant Electric Heat Models

Models ending in 'K' are 230/208V, models ending in 'R' are 265V

Model	PDE07K3SGR3	PDE07R3SGR3	PDE09K3SGR3	PDE09R3SGR3	PDE12K3SGR3	PDE12R3SGR3	PDE15K3SGR3	PDE15R3SGR3
PERFORMANCE DATA								
Cooling Btu	7400/7200	7500	10200/9900	10000	12300/12100	12300	14700/14400	14800
Cooling Watts	560/540	560	810/790	800	1060/1020	1060	1420/1380	1400
Energy Efficiency Ratio, EER	13.0/13.0	13.3	12.5/12.5	12.5	11.6/11.8	11.6	10.4/10.6	10.6
Heater Size (kW)	3.6	3.6	3.6	3.6	3.6	3.6	5	5
Moisture Removal (pints/hr.)	1.69	1.69	2.11	2.11	2.74	2.74	3.17	3.17
Sensible Heat Ratio	86%	86%	85%	85%	75%	75%	67%	67%
ELECTRICAL DATA								
Voltage (1 Phase, 60 Hz)	230/208	265	230/208	265	230/208	265	230/208	265
Volt Range	253 – 187	292 – 239	253 – 187	292 – 239	253 – 187	292 – 239	253 – 187	292 – 239
Current (Amps)	2.4/2.6	2.1	3.6/3.9	3.2	4.7/5.0	4.0	6.0/6.5	5.3
Power Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Compressor LRA	13.0	12.0	17.0	15.0	30.0	21.0	35.2	26.0
Compressor RLA	2.16	2.2	3.1	3.4	4.0	3.3	5.0	6.4
Outdoor Fan Motor, HP	0.080	0.080	0.080	0.080	0.086	0.086	0.086	0.086
AIRFLOW DATA								
Indoor CFM, HIGH	311.9	311.9	330	330	341.33	341.33	341	341.33
Indoor CFM, LOW	282.48	282.48	282	282	306.02	306.02	306	306.02
Vent CFM	75	75	75	75	75	75	75	75
PHYSICAL DATA								
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (all models)							
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" (all models)							
Cut Out Dimensions (H x W x D)	16 1/4" x 42 1/4" (all models)							
Net Weight (lbs.)	110.25	110.25	110.3	110.3	114.66	114.66	114.7	114.7
Shipping Weight (lbs.)	132.3	132.3	132.3	132.3	136.71	136.71	136.7	136.7
R-32 Charge (oz.)	17.64	17.64	17.28	17.28	21.16	21.16	19.75	19.79
Dimensions with Packaging (inches)	17 7/8" x 45" x 25 1/4" (all models)							

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PTHP Heat Pump models

Models ending in 'K' are 230/208V, models ending in 'R' are 265V

	PDH07K3SG	PDH07R3SG	PDH09K3SG	PDH09R3SG	PDH12K3SG	PDH12R3SG	PDH15K5SG	PDH15R5SG
PERFORMANCE DATA								
Cooling Btu	7200/7000	7200	9400/9200	9400	11800/11600	11800	14500/14200	14500
Cooling Watts	550/535	550	775/760	775	1015/1000	1015	1390/1365	1390
Energy Efficient Ratio, EER	13.0/13.0	13.0	12.1/12.1	12.1	11.6/11.6	11.6	10.4/10.4	10.4
Heater Size (kW)	3.6	3.6	3.6	3.6	3.6	3.6	5	5
Reverse Heating Btu	6000/5800	6000	8500/8200	8600	10900/10700	10700	13800/13300	13300
Heating Watts	490/470	490	690/670	690	940/900	920	1310/1250	1250
COP	3.6/3.6	3.6	3.5/3.5	3.5	3.4/3.4	3.4	3.1/3.1	3.1
Moisture Removal (pints/hr.)	1.7	1.7	2.1	2.1	2.7	2.7	3.1	3.1
Sensible Heat Ratio	86%	86%	85%	85%	75%	75%	67%	67%
ELECTRICAL DATA								
Voltage (1 Phase, 60 Hz)	230/208	265	230/208	265	230/208	265	230/208	265
Volt Range	253 – 187	292 – 239	253 – 187	292 – 239	253 – 187	292 – 239	253 – 187	292 – 239
Current (Amps)	2.7/2.9	2.4	3.7/3.9	3.3	4.9/5.1	4.2	6.2/6.7	5.4
Reverse Heat Amps	2.4/2.6	2.2	3.4/3.2	3.1	4.2/4.7	3.7	6.2/6.7	5.0
Power Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Compressor LRA	13.0	12.5	19.5	13.5	21.5	19.0	28.9	21.6
Compressor RLA	2.5	2.2	3.5	3.0	4.7	3.9	5.9	5.05
Outdoor Fan Motor, HP	0.080	0.080	0.080	0.080	0.086	0.086	0.086	0.086
AIRFLOW DATA								
Indoor CFM, HIGH	345/315	345	355/325	355	400/390	400	400/390	400
Indoor CFM, LOW	270/255	270	300/275	300	325/310	325	325/310	325
Vent CFM	75	75	75	75	75	75	75	75
PHYSICAL DATA								
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (all models)							
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" (all models)							
Cut Out Dimensions (H x W x D)	16 1/4" x 42 1/4" (all models)							
Net Weight (lbs.)	113	112	119	119	122	119	124	122
Shipping Weight (lbs.)	133	132	139	139	141	139	144	144
R-410A Charge (oz.)	34	34	34	34	36	36	39	39
Dimensions with Packaging (inches)	17 7/8" x 45" x 25 1/4" (all models)							

R-32 Refrigerant Heat Pumps

Model		PDH07K3SGR3	PDH07R3SGR3	PDH09K3SGR3	PDH09R3SGR3	PDH12K3SGR3	PDH12R3SGR3	PDH15K5SGR3	PDH15R5SGR3
PERFORMANCE DATA									
Cooling Capacity	Btu	7400/7200	7300	9700/9400	9800	12100/11900	12000	14600/14200	14500
Cooling Watts		570/560	560	800/780	810	1040/1000	1030	1400/1360	1390
Energy Efficiency Ratio	EER	13.0/13.0	13.0	12.1/12.1	12.1	11.6/11.8	11.6	10.4/10.4	10.4
Heater Size	kW	3.6	3.6	3.6	3.6	3.6	3.6	5	5
Reverse Heating Capacity	BTU	6000/5800	6000	8500/8200	8600	10900/10700	10700	13800/13300	13300
Heating Watts		490/460	490	690/670	690	940/900	920	1310/1250	1250
COP (W/W)		3.6/3.6	3.6	3.6/3.6	3.65	3.4/3.46	3.4	3.1/3.1	3.1
Moisture Removal	Pts.Hr.	1.69	1.69	2.11	2.11	2.75	2.75	3.17	3.17
Sensible Heat Ratio		83/80%	83%	75%	75%	70%	70%	---	---
ELECTRICAL DATA									
Voltage (1 PHASE, 60 Hz)		230/208	265	230/208	265	230/208	265	230/208	265
Volt Range		253-187.2	238.5-291.5	253-187	292-239	253-187	292-239	253-187	292-239
Cooling	Amps	2.4/2.6	2.1	3.6/3.9	3.1	4.6/4.9	4	6.0/6.5	5.3
Reverse Heat	Amps	2.1/2.3	1.8	3.1/3.2	2.6	4.1/4.3	3.5	5.6/5.9	4.7
Power Factor		0.99/1.0	1.0	0.99	0.99	0.99	0.99	---	---
Compressor LRA		13	12	17	15	30	21	35.2	26
Compressor RLA		2.16	2.2	3.1	3.4	4.0	4.5	5	6.4
Outdoor Fan Motor	HP	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
AIRFLOW DATA									
Indoor CFM, HIGH		311.9	311.9	330	330	340	341	341	341
Indoor CFM, LOW		282.48	282.48	282	282	306	306	306	306
Outdoor Air		75	75	52	52	52	52	75	75
PHYSICAL DATA									
Sleeve Dimensions H x W x D		16" x 42" x 13 3/4" (all models)							
Dimensions with front H x W x D		16" x 42" x 21" (all models)							
Cut Out Dimensions H x W		16 1/4"x 42 1/4" (all models)							
Net Weight	Lbs.	112.45	112.45	115	115	119	119	120	120
Shipping Weight	Lbs.	134.5	134.5	135	135	141	141	142	142
R-32 Charge	Oz.	27.51	27.51	24.7	24.7	20.92	28.9	29.63	28.57
Dimensions with Packaging (inches)		17 7/8" x 45" x 25 1/4" (all models)							

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