FRIEDRICH

FreshAire® Series PTACS
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	
PDXWSEXT20	Deep Wall Sleeve- For walls up to 19 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	
PXAAHD	Miami Dade Architectural Anodized Aluminum Louver	Qty	
PXSCHD	Miami Dade available in custom colors	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	
PXFTB	Replacement Filters (Set of 10)	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	
PXDS	Subbase Disconnect Switch	Qty	
RT7	Wired Digital Thermostat	Qty	
RT7P	Wired Programmable Digital Thermostat	Qty	
EMRTA4	Wired Thermostat with Occupancy Sensor	Qty	
EMRTB4	Wired Thermostat with Occupancy Sensor	Qty	
EMWRTA4	Wireless Thermostat with Occupancy Sensor	Qty	
EMWRTB4	Wireless Thermostat with Occupancy Sensor	Qty	
VRPXEMRTA4*	Wired 12v Intelligent Controller for FreshAire PTAC	Qty	
VRPXEMRTB4*	Wired 12v Intelligent Controller for FreshAire PTAC	Qty	
VRPXEMWRTA4*	Wireless 12v Intelligent Controller for FreshAire PTAC	Qty	
VRPXEMWRTB4*	Wireless 12v Intelligent Controller for FreshAire PTAC	Qty	
VRPXWCTA4	Wired thermostat without occupancy sensor (white only) 12V.	Qty	
WRT2	Wireless Digital Thermostat	Qty	
EMOCT	Online Connection Kit	Qty	
EMRAF	Remote Access Fee	Qty	
EMZBU	Zigbee/ BLE Door lock integration chip	Qty	
PXPCFA23015 or PC23015	LCDI 230V 15A Cord - 2.5 kW	Qty	
PXPCFA23020 or PC23020	LCDI 230V 205A Cord - 3.5 kW	Qty	
PXPCFA23030**or PC23030**	LCDI 230V 30A Cord - 5.0 kW	Qty	
PXPCFA26515 or PC26515	Non-LCDI 265V 15A Cord - 2.5 kW	Qty	
PXPCFA26520 or PC26520	Non-LCDI 265V 20A Cord - 3.5 kW	Qty	
PXPCFA26530** or PC26530**	Non-LCDI 265V 30A Cord - 5.0 kW	Qty	

*NOTE: The FreshAire® PTAC when paired with VRPXEMRT4 wired wall controller, or VRPXEMWRT4 wireless wall controller operates as a fully variable speed unit. When used with other compatible thermostats, the unit will operate at multiple speeds in either cooling or heating mode.

**Cannot be used with PVH09K3FA





Warranty Information

Current warranty information can be obtained by referring to https://www.friedrich.com/professional/support/product-resources

FreshAire® PTAC

SPECIFICATIONS

PTHP (HEAT PUMP) WITH INVERTER AND MUA (MAKE-UP AIR), R-32 REFRIGERANT

Model	PVH09K3FC	PVH09R3FC	PVH12K3FC	PVH12R3FC
PERFORMANCE DATA				
Cooling Btu/h	9,800/9,700	9,800	12,000/11,800	12,000
*Cooling Capacity Min./Max (Btu/h)	5,800-12,000	5,800-12,000	6,100-15,500	6,100-15,500
Cooling Watts	815/805	815	1,040/1,025	1,040
Energy Efficiency Ratio, EER	12.0/12.0	12.0	11.5/11.5	11.5
*Heater Size (kW)	3.5	3.5	3.5	3.5
Heat Pump Btu/h	8,500/8,400	8,500	11,500/11,500	11,600
*Heat Pump Capacity Min./Max. (Btu/h)	5,500-10,800	5,500-10,800	6,000-14,000	6,000-14,000
Heating Watts	710/700	710	940/940	940
COP	3.51/3.51	3.51	3.65/3.65	3.65
Moisture Removal (pints/h)	1.4	1.2	1.9	2.4
Sensible Heat Ratio	77%	78%	77%	78%
ELECTRICAL DATA				
Voltage (1 Phase, 60 Hz)	230/208	265	230/208	265
Volt Range	253-187	292-239	253-187	292-239
Current (Amps)	3.56/3.95	3.09	4.55/4.99	3.86
Electric Heater (Amps)	15.3	13.3	15.3	13.3
Heat Pump (Amps)	3.4/3.1	2.77	4.5/4.1	3.5
Power Factor	0.97	0.936	0.98	0.90
Compressor LRA	N/A	N/A	N/A	N/A
Compressor RLA	3.2	2.8	4.1	3.5
Outdoor Fan Motor, (HP)	0.071	0.14	0.08	0.14
AIRFLOW DATA				
Indoor CFM, HIGH	412	412	441	459
Indoor CFM, LOW	315	315	329	329
Make-up Air CFM@0.05" wc Min/Max (CFM)	20/52	20/52	20/52	20/52
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.)	120	109.9	136	136
Shipping Weight (lbs.)	141	132.45	157	157
R-32 Charge (oz.)	24.3	24.3	27.2	27.2

Electrical Heater Data

MODEL	HEATER kW	Power Cord Kit	Voltage	BRANCH CKT AMPS	MCA	Watts	Cord length	Receptacle	
PVH09K	2.5 (optional)	PXPCFA23015 or PC23015	230/208	15	13.9	2500	67"	NEMA 6-15r	
PVH12K	1.5 (optional)	PXPCFA23015 or PC23015	230/208	15	13.9	2500		NEMA 6-15r	
PVH09R	2.5 (optional)	PXPCFA26515 or PC26515	265	15	12.0	2500	18"	NEMA 7-15r	
PVH12R	1.5 (optional)	PXPCFA26515 or PC26515	265	15	7.3	1500		NEMA 7-15r	
PVH09K	3.5 (default)	PXPCFA23020 or PC23020	230/208	20	19.9	3600	67"	NEMA 6-20r	
PVH12K	3.5 (default)	PXPCFA23020 or PC23020	230/208	20	19.9	3600		NEMA 6-20r	
PVH09R	3.5 (default)	PXPCFA26520 or PC26520	265	20	16.8	3500	18"	NEMA 7-20r	
PVH12R	3.5 (default)	PXPCFA26520 or PC26520	265	20	16.8	3500		NEMA 7-20r	
PVH12K	5.0 (optional)	PXPCFA23030 or PC23030	230/208	30	27.5	5000	67"	NEMA 6-30r	
PVH12R	5.0 (optional)	PXPCFA26530 or PC26530	265	30	23.8	5000	18"	NEMA 7-30r	

Standard power cord installed on each unit (9-12k-3.5KW). Adjustable heater size shown in chart above. Note 30A cord not compatible with the 9k unit.

Warning: Coastal Region Installations. Friedrich Air Conditioning recommends that owners take necessary precautions to protect the interior space, furnishings, and hardware from corrosion when installing make-up air products in coastal applications. Our FreshAire PTAC delivers up to 52 CFM of direct outside make-up air into the space. If installed within 2 miles of a body of salt water, due to the high salt content of coastal air and the high latent load of the make-up air, premature corrosion will occur naturally on non-protected items. Friedrich Air Conditioning is not responsible for premature corrosion resulting from the use of make-up air products.

FreshAire PTAC may be covered under one or more of the following patents: 10,408,504 and 10,436,457. Additional patents pending.

Warranty limited to installations in the United States, Puerto Rico, Mexico and Canada only. See warranty documentation for full details.

*Units must be appropriately sized/selected based on accurate building /room load requirements and the rated capacity of the equipment.

FRIEDRICH

Friedrich Air Conditioning Co. | Friedrich.com

Intertek

AHRI CERTIFIED™ www.ahridirectory.org
Packaged Terminal HP
AHRI Standard 310/380

AHRI CERTIFIED™ www.ahridirectory.org
Packaged Terminal AC
AHRI Standard 310/380