

Features

Tangential blower wheel for fast, even air distribution

Two permanently-lubricated fan motors for quiet operation

EERs up to 12.0; COPs up to 3.4

3 fan speeds heating and cooling

Separate thermostat settings (limiting) for cooling and heating modes allow for improved comfort

Internal diagnostic program

Remote thermostat operation

Desk control ready

Compatible with energy management systems

Reversible indoor air louvers

Antimicrobial air filters

Diamonblue anticorrosion treatment

Modular design ensures easy access to key components

Fits standard PTAC sleeve without added cost of a baffle kit

5 Year limited warranty



Product Profile



PACKAGED TERMINAL AIR CONDITIONERS

COOL ONLY / HEAT PUMPS / ELECTRIC HEAT

Digital Control Features

Systems. The large, easy-to-read LED display can show elither the set point or actual room reinperature as selected by owner. When the unit is powered off, the unit can be returned directly to heating or cooling mode by pressing the Hear or 'Cool' buttons without the confusing power up sequence of some controls. One-touch control takes guesswork out of unit control, delivering a more enjoyable experience and eliminating front-desk calls. By having separate control buttons and indicators for both fan and mode settings, the Friedrich digital control eliminates the confusion of previous digital PTACs. The accurate temperature setting provides greater guest comfort than other systems. The fan start and stop delays prevent abrupt changes in room acoustics due to the compressor energizing or stopping immediately. Upon call for cooling or heating, the unit fan will run for five seconds prior to energizing the compressor. Some applications require the use of a wall-mounted thermostat. All new Friedrich PTACs may be switched from unit control to remote thermostat control easily without the need to order a special model or accessory kit. The new Friedrich digital PTAC features a self diagnostic program that can alert maintenance to component fallures or operating problems. The internal diagnostic program saves properties valuable time when diagnosing running problems. The self diagnosis program will also store error codes in memory if certain conditions occur and correct themselves such as extreme high or low operating conditions or activation of the room freeze protection feature. Storing error codes can help properties determine if the unit faced obscure conditions or if an error occurred and corrected itself. By limiting the operating range, the property can save energy by eliminating 'max cool' or 'max heat' situations common with older uncontrolled systems. The new electronic control allows owners to set operating ranges for both heating and cooling independently of one another. When the PTAC senses that the		
Heat' or 'Cool' buttons without the confusing power up sequence of some controls. One-touch control takes guesswork out of unit control, delivering a more enjoyable experience and eliminating front-desk calls. INDIVIDUAL MODE & FAN CONTROL BUTTONS By having separate control buttons and indicators for both fan and mode settings, the Friedrich digital control eliminates the confusion of previous digital PTACs. The accurate temperature setting provides greater guest comfort than other systems. The fan start and stop delays prevent abrupt changes in room acoustics due to the compressor energizing or stopping immediately. Upon call for cooling or heating, the unit fan will run for five seconds prior to energizing the compressor. Also, the fan off delay allows for 'free cooling for 'free cooling the unit fan will run for five seconds prior to energizing the compressor. Also, the fan off delay allows for 'free cooling the unit fan will run for five seconds prior to energizing the compressor. Also, the fan off delay allows for 'free cooling the unit fan will run for five seconds prior to energizing the compressor. Also, the fan off delay allows for 'free cooling the unit fan will run for five seconds prior to energizing the compressor. Some applications require the use of a wall-mounted thermostat. All new Friedrich PTACs may be switched from unit control to remote thermostat control easily without the need to order a special model or accessory kit. The new Friedrich digital PTAC features a self diagnostic program that can alert maintenance to component failures or operating problems. The internal diagnostic program saves properties valuable time when diagnosiing running problems. SERVICE ERROR CODE STORAGE By limiting the operating range, the property can save energy by eliminating "max cool" or "max heat" situations common with older uncontrolled systems. The new electronic control allows owners to set operating ranges for both heating and cooling independently of one another. By limiting the operating range,	DIGITAL TEMPERATURE READOUT	systems. The large, easy-to-read LED display can show either the set point or actual room temperature
SEAN CONTROL BUTTONS Control eliminates the confusion of previous digital PTACs. The accurate temperature setting provides greater guest comfort than other systems. The fan start and stop delays prevent abrupt changes in room acoustics due to the compressor energizing or stopping immediately. Upon call for cooling or heating, the unit fan will run for five seconds prior to energizing the compressor. Also, the fan off delay allows for "free cooling" by utilizing the already cool indoor coil to its maximum capacity by running for 30 seconds after the compressor. REMOTE THERMOSTAT OPERATION Some applications require the use of a wall-mounted thermostat. All new Friedrich PTACs may be switched from unit control to remote thermostat control easily without the need to order a special model or accessory kit. INTERNAL DIAGNOSTIC PROGRAM The new Friedrich digital PTAC features a self diagnostic program that can alert maintenance to component failures or operating problems. The internal diagnostic program saves properties valuable time when diagnosing running problems. The self diagnosis program will also store error codes in memory if certain conditions occur and correct themselves such as extreme high or low operating conditions or activation of the room freeze protection feature. Storing error codes can help properties determine if the unit faced obscure conditions or if an error occurred and corrected itself. By limiting the operating range, the property can save energy by eliminating "max cool" or "max heat" situations common with older uncontrolled systems. The new electronic control allows owners to set operating ranges for both heating and cooling independently of one another. When the PTAC senses that the indoor room temperature has fallen to 40°F, the unit will cycle on the fan (high) and the electric strip heat to raise the room temperature to 46°F, and then cycle off again. This feature works regardless of the mode selected and can be turned off. The control will also store the Room Freeze cycle in	ONE-TOUCH OPERATION	'Heat' or 'Cool' buttons without the confusing power up sequence of some controls. One-touch control takes guesswork out of unit control, delivering a more enjoyable experience and eliminating front-desk
INTERNAL DIAGNOSTIC PROGRAM The new Friedrich digital PTAC features a self diagnostic program that can alert maintenance to component failures or operating running problems. The internal diagnostic program saves properties valuable time when diagnosing running problems. The self diagnosis program will also store error codes in memory if certain conditions or if an error occurred and corrected itself. ELECTRONIC ELECTRONIC ELECTRONIC ELECTRONIC ELECTRONIC TEMPERATURE LIMITING By limiting the operating range, the property can save energy by eliminating "max cool" or "max heat" situations common with older uncontrolled systems. The new electronic control allows owners to set operating ranges for both heating and cooling independently of one another. Month of the propersions of the room freeze protection feature. Store the properties determine if the unit faced obscure conditions or if an error occurred and corrected itself. When the PTAC senses that the indoor room temperature to 40°F, the unit will cycle on the fan (high) and the electric strip heat to raise the room temperature to 46°F, and then cycle off again. This feature works regardless of the mode selected and can be turned off. The control will also store the Room Freeze cycle in the service code memory for retrieval at a later date. This feature ensures that unoccupied rooms do not reach freezing levels where damage can occur to plumbing and fixtures. Multiple compressors starting at once can often cause electrical overloads and premature unit failure. The random restart delay eliminates multiple units from starting at once following a power outage or initial	INDIVIDUAL MODE & FAN CONTROL BUTTONS	control eliminates the confusion of previous digital PTACs. The accurate temperature setting provides
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FROM FREEZE PROTECTION fan (high) and the electric strip heat to raise the room temperature to 46°F, and then cycle off again. This feature works regardless of the mode selected and can be turned off. The control will also store the Room Freeze cycle in the service code memory for retrieval at a later date. This feature ensures that unoccupied rooms do not reach freezing levels where damage can occur to plumbing and fixtures. RANDOM COMPRESSOR Multiple compressors starting at once can often cause electrical overloads and premature unit failure. The random restart delay eliminates multiple units from starting at once following a power outage or initial	ELECTRONIC TEMPERATURE LIMITING	ations common with older uncontrolled systems. The new electronic control allows owners to set operat-
The random restart delay eliminates multiple units from starting at once following a power outage or initial	ROOM FREEZE PROTECTION	fan (high) and the electric strip heat to raise the room temperature to 46°F, and then cycle off again. This feature works regardless of the mode selected and can be turned off. The control will also store the Room Freeze cycle in the service code memory for retrieval at a later date. This feature ensures that unoccupied
	RANDOM COMPRESSOR RESTART	The random restart delay eliminates multiple units from starting at once following a power outage or initial

General Product Features

DIAMONBLUE TECHNOLOGY	Diamonblue seacoast protection protects the outdoor coil from harsh environments. Comes standard on all models.
DIGITAL DEFROST THERMOSTAT	The new Friedrich PTAC uses a digital thermostat to accurately monitor the outdoor coil conditions to allow the heat pump to run whenever conditions are correct. Running the PTAC in heat pump mode saves energy and reduces operating costs. The digital thermostat allows maximization of heat pump run time.
INSTANT HEAT HEAT PUMP MODE	Heat pump models will automatically run the electric heater to quickly bring the room up to temperature when initially energized, then return to heat pump mode. This ensures that the room is brought up to temperature quickly without the usual delay associated with heat pump units.
EVEN HEAT MONITORING	The digital control monitors indoor conditions to ensure that the room temperature is within five degrees of the setpoint. If necessary, the unit will cycle the electric heat to maintain the temperature. This feature ensures guest comfort by delivering the heating benefits of an electric heater while maintaining the efficiency benefits of a heat pump.
SEPARATE HEAT/COOL FAN CYCLE CONTROL	The owner may choose between fan cycling or fan continuous mode based on property preference. (Note: Even heat monitoring and quiet start/stop fan delay only operate in fan cycle mode) Fan continuous mode is used to keep constant airflow circulation in the room during all times the unit is 'ON'. Fan cycle will conserve energy by only operating the fan while the compressor or electric heater is operating. The ability to set the fan cycling condition independently between heating and cooling mode will increase user comfort by allowing the choice of only constantly circulating air in the summer or winter time. Unlike other PTAC brands that only allow one selection.
EMERGENCY HEAT OVERRIDE	In the event of a compressor failure in heat pump mode, the compressor may be locked out to provide heat through the resistance heater. This feature ensures that even in the unlikely event of a compressor failure, the room temperature can be maintained until the compressor can be serviced.
DESK CONTROL READY	All Friedrich digital PTACs have low voltage terminals ready to connect a desk control energy management system. Controlling the unit from a remote location like the front desk can reduce energy usage and requires no additional accessories on the PTAC unit.
INDOOR COIL FROST SENSOR	The frost sensor protects the compressor from damage in the event that airflow is reduced or low outdoor temperatures cause the indoor coil to freeze. When the indoor coil reaches 30°F, the compressor is disabled and the fan continues to operate based on demand. Once the coil temperature returns to 45°F, the compressor returns to operation.
ULTRAQUIET AIR SYSTEM	The new Friedrich PD series units feature an indoor fan system design that reduces sound levels without lowering airflow or preventing proper air circulation.
HIGH EFFICIENCY	The Friedrich PTAC has been engineered so that all functional systems are optimized so that they work together to deliver the highest possible performance.
DUAL MOTOR	With Friedrich's new dual-motor design the indoor motor can run at slower speeds which reduces sound levels indoors.
ROTARY COMPRESSOR	High efficiency rotary compressors are used on all Friedrich PTACs to maximize durability and efficiency.
STAINLESS STEEL ENDPLATES	Outdoor coil endplates made from stainless steel reduce corrosion on the outdoor coil common with other coil designs.
TOP-MOUNTED ANTIMICROBIAL AIR FILTERS	All Friedrich PTAC return air filters feature an antimicrobial element that has proven to prevent mold and bacterial growth in laboratory testing. PDXFT replacement filter kits feature the same antimicrobial agent. All filters are washable, reusable and easily accessed from the top of the unit without the removal of the front cover.
FILTERED FRESH AIR INTAKE	Friedrich PTAC units are capable of introducing up to 75 CFM of outside air into the conditioned space. The outdoor air passes through a washable mesh screen to prevent debris from entering the airstream.
R-410A REFRIGERANT	Friedrich PTAC units use environmentally-friendly refrigerant.

Chassis Specifications

PDE Series

	PDE07K	PDE07R	PDE09K	PDE09R	PDE12K	PDE12R	PDE15K	PDE15R			
PERFORMANCE DATA:											
COOLING BTUh	7700/7600	7700	9000/8800	9000	12000/11800	12000	15000/14600	15000			
POWER (WATTS)	640/620	640	800/770	800	1120/1120	1120	1530/1510	1530			
EER	12.0/12.2	12.0	11.3/11.4	11.3	10.7/10.5	10.7	9.8/9.7	9.8			
DEHUMIDIFICATION (pints/hr)	1.7	1.7	2.2	2.2	2.7	2.7	3.2	3.2			
SENSIBLE HEAT RATIO	0.84	0.84	0.81	0.81	0.67	0.67	0.65	0.65			
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)	2.8/3.0	2.4	3.7/3.9	3.7	5.1/5.3	4.8	6.7/7.5	5.9			
POWER FACTOR	0.97	0.99	0.99	0.99	0.99	0.99	0.99	0.99			
Compressor LRA	19.0	12.0	17.0	18.0	27.00	23.0	32.6	27.8			
Compressor RLA	2.8	2.4	3.7	2.9	5.0	4.3	6.6	5.6			
Fan motor horsepower	0.024	0.024	0.029	0.029	0.031	0.031	0.031	0.031			
AIRFLOW DATA:											
INDOOR CFM, HIGH	345/315	345	360/345	360	360/350	360	385/375	385			
INDOOR CFM, MED	320/290	320	330/305	330	330/310	330	360/330	360			
INDOOR CFM, LOW	295/265	295	300/270	300	310/280	310	320/290	320			
VENT CFM	75	75	75	75	75	75	75	75			
PHYSICAL DATA:											
DIMENSIONS	16x42x13 3/4										
NET WEIGHT	106	106	111	111	116	116	119	119			
SHIPPING WEIGHT	126	126	131	131	136	136	139	139			
R-410A CHARGE (oz)	23.63	24.69	33.51	33.51	35.27	35.98	38.1	40.21			
Dim.s w/ Pkg. 19.75x23x 43.5 (all models)											

PDH Series

	PDH07K	PDH07R	PDH09K	PDH09R	PDH12K	PDH12R	PDH15K	PDH15R
PERFORMANCE DATA:								
COOLING BTUh	7700/7600	7700	9000/8800	9000	12000/11800	12000	14500/14200	14500
POWER (WATTS) cool	640/620	640	800/770	800	1120/1120	1120	1480/1460	1480
EER	12.0/12.2	12	11.3/11.4	11.3	10.7/10.5	10.7	9.8/9.7	9.8
REVERSE HEATING BTUh	6300/6100	6300	8100/7900	8100	10700/10500	10700	13300/13000	13300
POWER (WATTS) HEAT	540/530	540	720/770	720	1010/990	1010	1300/1270	1300
COP	3.4/3.4	3.4	3.3/3.3	3.3	3.1/3.1	3.1	3.0/3.0	3
DEHUMIDIFICATION (pints/hr)	1.7	1.7	2.2	2.2	2.7	2.7	3.2	3.2
SENSIBLE HEAT RATIO	0.84	0.84	0.81	0.81	0.67	0.67	0.65	0.65
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)	2.8/3.0	2.4	3.7/3.9	3.7	5.1/5.3	4.8	6.7/7.5	5.7
REVERSE HEAT. Amps	2.4/2.5	2.1	3.4/3.8	3.4	4.5/4.7	4.5	5.8/6.2	5.0
POWER FACTOR	0.97	0.99	0.99	0.99	0.99	0.99	0.98	0.98
Compressor LRA	19.0	12.0	18.5	19.0	27.00	23.0	36.0	26.0
Compressor RLA	2.8	2.4	3.6	3.2	5.0	4.3	6.5	5.3
Fan motor horsepower	0.024	0.024	0.029	0.029	0.031	0.031	0.031	0.031
AIRFLOW DATA:								
INDOOR CFM, HIGH	345/315	345	360/345	360	360/350	360	420/390	385
INDOOR CFM, MED	320/290	320	330/305	330	330/310	330	410/380	360
INDOOR CFM, LOW	295/265	295	300/270	300	310/280	310	380/350	320
VENT CFM	75	75	75	75	75	75	75	75
PHYSICAL DATA:								
DIMENSIONS	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5	16x42x13.5
NET WEIGHT	108	108	113	113	118	118	121	123
SHIPPING WEIGHT	128	128	133	133	138	138	141	143
R-410A CHARGE (oz)	23.63	24.69	33.51	35.27	35.27	35.98	39.86	36.33

Due to continuing research in new energy-saving technology, specifications are subject to change without notice.

250 V Recep	250 V Receptacles and Fuse Types											
AMPS	AMPS 15 20 30											
HEATER SIZE	0, 2.0 kW	3.0 kW	5.0 kW									
RECEPTACLE	•	•										









Cooling & Heating Performance

PDE 230V - Extended Cooling Performance

						(OUTDOOR	DRY BULI	B TEMP. (DE	GREES F A	T 40% R.H	.)				
			75			85			95			105			110	
			INDOOR WET BULB TEMP. (DEGREES F AT 80 F D.B.)													
		72	67	62	72	67	62	72	67	62	72	67	62	72	67	62
	BTUh	9055	8709	8062	8624	8131	7500	8285	7700	6815	7762	6892	6075	6907	5944	5251
PDE07	WATTS	522	531	536	569	575	582	640	640	640	692	691	693	755	755	758
FDLUI	AMPS	2.3	2.3	2.4	2.5	2.5	2.5	2.8	2.80	2.8	3	3	3	3.3	3.3	3.3
	SHR	0.53	0.72	0.96	0.54	0.74	0.98	0.54	0.77	0.99	0.55	0.81	0.99	0.58	0.87	0.99
	BTUh	10584	10179	9423	10080	9504	8766	9684	9000	7965	9072	8055	7101	8073	6948	6138
PDE09	WATTS	653	663	670	711	718	727	800	800	800	865	864	866	943	943	947
FDEUS	AMPS	3.1	3.1	3.1	3.3	3.3	3.3	3.7	3.70	3.7	4	4	4	4.3	4.3	4.4
	SHR	0.49	0.66	0.89	0.5	0.69	0.91	0.5	0.71	0.91	0.51	0.75	0.92	0.54	0.8	0.91
	BTUh	14112	13572	12564	13440	12672	11688	12912	12000	10620	12096	10740	9468	10764	9264	8184
PDE12	WATTS	914	928	939	996	1006	1018	1120	1120	1120	1211	1210	1213	1320	1320	1326
PDE12	AMPS	4.2	4.2	4.3	4.5	4.6	4.6	5.1	5.10	5.1	5.5	5.5	5.5	6	6	6
	SHR	0.49	0.66	0.89	0.5	0.69	0.91	0.5	0.71	0.91	0.51	0.75	0.92	0.54	0.8	0.91
	BTUh	17640	16965	15705	16800	15840	14610	16140	15000	13275	15120	13425	11835	13455	11580	10230
PDE15	WATTS	1248	1268	1282	1360	1374	1391	1530	1530	1530	1654	1652	1657	1804	1804	1812
LDEIS	AMPS	5.5	5.6	5.6	6	6	6	6.7	6.70	6.7	7.2	7.2	7.2	7.9	7.9	7.9
SHR 0.47 0.63 0.85 0.48 0.66 0.87						0.48	0.68	0.87	0.49	0.72	0.88	0.51	0.77	0.87		
								RATING POINT								

RATING POINT ARI 310/380

PDH 230V - Extended Cooling Performance

						(OUTDOOR	DRY BULI	B TEMP. (DEC	GREES F A	T 40% R.H	l.)				
			75			85			95			105			110	
							INDOOR \	VET BULB	TEMP. (DEG	REES F AT	80 F D.B.)				
		72	67	62	72	67	62	72	67	62	72	67	62	72	67	62
	BTUh	9055	8709	8062	8624	8131	7500	8285	7700	6815	7762	6892	6075	6907	5944	5251
DDI 107	WATTS	522	531	536	569	575	582	640	640	640	692	691	693	755	755	758
PDH07	AMPS	2.3	2.3	2.4	2.5	2.5	2.5	2.8	2.80	2.8	3	3	3	3.3	3.3	3.3
	SHR	0.53	0.72	0.96	0.54	0.74	0.98	0.54	0.77	0.99	0.55	0.81	0.99	0.58	0.87	0.99
	BTUh	10584	10179	9423	10080	9504	8766	9684	9000	7965	9072	8055	7101	8073	6948	6138
DDLIOO	WATTS	653	663	670	711	718	727	800	800	800	865	864	866	943	943	947
PDH09	AMPS	3.1	3.1	3.1	3.3	3.3	3.3	3.7	3.70	3.7	4	4	4	4.3	4.3	4.4
	SHR	0.49	0.66	0.89	0.5	0.69	0.91	0.5	0.71	0.91	0.51	0.75	0.92	0.54	0.8	0.91
	BTUh	14112	13572	12564	13440	12672	11688	12912	12000	10620	12096	10740	9468	10764	9264	8184
PDH12	WATTS	914	928	939	996	1006	1018	1120	1120	1120	1211	1210	1213	1320	1320	1326
PDH12	AMPS	4.2	4.2	4.3	4.5	4.6	4.6	5.1	5.10	5.1	5.5	5.5	5.5	6	6	6
	SHR	0.49	0.66	0.89	0.5	0.69	0.91	0.5	0.71	0.91	0.51	0.75	0.92	0.54	0.8	0.91
	BTUh	17052	16400	15182	16240	15312	14123	15602	14500	12833	14616	12978	11441	13007	11194	9889
DDI 14E	WATTS	1208	1227	1240	1316	1329	1345	1480	1480	1480	1600	1598	1603	1745	1745	1752
PDH15	AMPS	5.4	5.5	5.5	5.9	5.9	5.9	6.5	6.6	6.6	7.1	7.1	7.1	7.7	7.7	7.7
	SHR	0.48	0.65	0.88	0.49	0.68	0.89	0.49	0.70	0.9	0.5	0.74	0.9	0.53	0.79	0.9
									RATING POINT ARI 310/380							

Extended Heating Performance

			C	OUTDOOR DRY BULB TEMP. (DEGREES	5 F)	
		37	42	47	52	57
	BTUh	5250	5540	6300	6900	7620
PDH07	WATTS	509	518	540	549	580
	AMPS	2.3	2.4	2.4	2.5	2.6
	BTUh	6005	6399	8100	8647	9245
PDH09	WATTS	647	656	720	725	735
	AMPS	3.3	3.3	3.4	3.4	3.5
	BTUh	7726	8531	10700	11278	12234
PDH12	WATTS	883	917	1010	1039	1073
	AMPS	4	4.1	4.5	4.7	4.9
	BTUh	10530	10850	13300	14550	15940
PDH15	WATTS	1197	1212	1300	1377	1439
	AMPS	5.3	5.4	5.8	6.1	6.3
				RATING POINT		

RATING POINT ARI 310/380

Cooling & Heating Performance

PDE 265V - Extended Cooling Performance

					(OUTDOOR	DRY BULI	B TEMP. (DEC	REES F A	T 40% R.H	l.)				
		75			85			95			105			110	
						INDOOR V	VET BULB	TEMP. (DEG	REES F AT	80 F D.B.)				
	72	67	62	72	67	62	72	67	62	72	67	62	72	67	62
BTUh	9055	8709	8062	8624	8131	7500	8285	7700	6815	7762	6892	6075	6907	5944	5251
WATTS	522	531	536	569	575	582	640	640	640	692	691	693	755	755	758
AMPS	2	2	2	2.1	2.1	2.2	2.4	2.40	2.4	2.6	2.6	2.6	2.8	2.8	2.8
SHR	0.53	0.72	0.96	0.54	0.74	0.98	0.54	0.77	0.99	0.55	0.81	0.99	0.58	0.87	0.99
BTUh	10584	10179	9423	10080	9504	8766	9684	9000	7965	9072	8055	7101	8073	6948	6138
WATTS	653	663	670	711	718	727	800	800	800	865	864	866	943	943	947
AMPS	3.1	3.1	3.1	3.3	3.3	3.3	3.7	3.70	3.7	4	4	4	4.3	4.3	4.4
SHR	0.49	0.66	0.89	0.5	0.69	0.91	0.5	0.71	0.91	0.51	0.75	0.92	0.54	0.8	0.91
BTUh	14112	13572	12564	13440	12672	11688	12912	12000	10620	12096	10740	9468	10764	9264	8184
WATTS	914	928	939	996	1006	1018	1120	1120	1120	1211	1210	1213	1320	1320	1326
AMPS	4	4	4	4.3	4.3	4.3	4.8	4.80	4.8	5.2	5.2	5.2	5.6	5.6	5.7
SHR	0.49	0.66	0.89	0.5	0.69	0.91	0.5	0.71	0.91	0.51	0.75	0.92	0.54	0.8	0.91
BTUh	17640	16965	15705	16800	15840	14610	16140	15000	13275	15120	13425	11835	13455	11580	10230
WATTS	1248	1268	1282	1360	1374	1391	1530	1530	1530	1654	1652	1657	1804	1804	1812
AMPS	4.9	4.9	5	5.3	5.3	5.3	5.9	5.90	5.9	6.3	6.3	6.4	6.9	6.9	7
SHR	0.47	0.63	0.85	0.48	0.66	0.87	0.48	0.68	0.87	0.49	0.72	0.88	0.51	0.77	0.87
	WATTS AMPS SHR BTUh	BTUh 9055 WATTS 522 AMPS 2 SHR 0.53 BTUh 10584 WATTS 653 AMPS 3.1 SHR 0.49 BTUh 14112 WATTS 914 AMPS 4 SHR 0.49 BTUh 17640 WATTS 1248 AMPS 4.9	T2 67 BTUh 9055 8709 WATTS 522 531 AMPS 2 2 SHR 0.53 0.72 BTUh 10584 10179 WATTS 653 663 AMPS 3.1 3.1 SHR 0.49 0.66 BTUh 14112 13572 WATTS 914 928 AMPS 4 4 SHR 0.49 0.66 BTUh 17640 16965 WATTS 1248 1268 AMPS 4.9 4.9	T2 67 62 BTUh 9055 8709 8062 WATTS 522 531 536 AMPS 2 2 2 SHR 0.53 0.72 0.96 BTUh 10584 10179 9423 WATTS 653 663 670 AMPS 3.1 3.1 3.1 SHR 0.49 0.66 0.89 BTUh 14112 13572 12564 WATTS 914 928 939 AMPS 4 4 4 SHR 0.49 0.66 0.89 BTUh 17640 16965 15705 WATTS 1248 1268 1282 AMPS 4.9 4.9 5	72 67 62 72 BTUh 9055 8709 8062 8624 WATTS 522 531 536 569 AMPS 2 2 2 2.1 SHR 0.53 0.72 0.96 0.54 BTUh 10584 10179 9423 10080 WATTS 653 663 670 711 AMPS 3.1 3.1 3.1 3.3 SHR 0.49 0.66 0.89 0.5 BTUh 14112 13572 12564 13440 WATTS 914 928 939 996 AMPS 4 4 4 4.3 SHR 0.49 0.66 0.89 0.5 BTUh 17640 16965 15705 16800 WATTS 1248 1268 1282 1360 AMPS 4.9 4.9 5 5.3	75 85 85 Total Total BTUh 9055 8709 8062 8624 8131 WATTS 522 531 536 569 575 AMPS 2 2 2 2.1 2.1 SHR 0.53 0.72 0.96 0.54 0.74 BTUh 10584 10179 9423 10080 9504 WATTS 653 663 670 711 718 AMPS 3.1 3.1 3.1 3.3 3.3 SHR 0.49 0.66 0.89 0.5 0.69 BTUh 14112 13572 12564 13440 12672 WATTS 914 928 939 996 1006 AMPS 4 4 4 4.3 4.3 SHR 0.49 0.66 0.89 0.5 0.69 BTUh	T5	T5	T5	T5	NDOOR WET BULB TEMP. (DEGREES F AT 80 F D.B.) T2	NDOOR WET BULB TEMP. (DEGREES F AT 80 F D.B.) T2	NDOOR WET BULB TEMP. (DEGREES F AT 80 F D.B.) T2	Note	T5 S5 S62 T70 S65 S62 T70 S65 S65 S65 S67 S65 S65

RATING POINT ARI 310/380

PDH 265V - Extended Cooling Performance

							OUTDOOR	DRY BULI	B TEMP. (DE	GREES F A	T 40% R.H	l.)				
			75			85			95			105			110	
			INDOOR WET BULB TEMP. (DEGREES F AT 80 F D.B.)													
		72	67	62	72	67	62	72	67	62	72	67	62	72	67	62
	BTUh	9055	8709	8062	8624	8131	7500	8285	7700	6815	7762	6892	6075	6907	5944	5251
DD1107	WATTS	522	531	536	569	575	582	640	640	640	692	691	693	755	755	758
PDH07	AMPS	2	2	2	2.1	2.1	2.2	2.4	2.40	2.4	2.6	2.6	2.6	2.8	2.8	2.8
	SHR	0.53	0.72	0.96	0.54	0.74	0.98	0.54	0.77	0.99	0.55	0.81	0.99	0.58	0.87	0.99
	BTUh	10584	10179	9423	10080	9504	8766	9684	9000	7965	9072	8055	7101	8073	6948	6138
DDLIOO	WATTS	653	663	670	711	718	727	800	800	800	865	864	866	943	943	947
PDH09	AMPS	3.1	3.1	3.1	3.3	3.3	3.3	3.7	3.70	3.7	4	4	4	4.3	4.3	4.4
	SHR	0.49	0.66	0.89	0.5	0.69	0.91	0.5	0.71	0.91	0.51	0.75	0.92	0.54	0.8	0.91
	BTUh	14112	13572	12564	13440	12672	11688	12912	12000	10620	12096	10740	9468	10764	9264	8184
DDUIAO	WATTS	914	928	939	996	1006	1018	1120	1120	1120	1211	1210	1213	1320	1320	1326
PDH12	AMPS	4	4	4	4.3	4.3	4.3	4.8	4.80	4.8	5.2	5.2	5.2	5.6	5.6	5.7
	SHR	0.49	0.66	0.89	0.5	0.69	0.91	0.5	0.71	0.91	0.51	0.75	0.92	0.54	0.8	0.91
	BTUh	17052	16400	15182	16240	15312	14123	15602	14500	12833	14616	12978	11441	13007	11194	9889
DDUAG	WATTS	1208	1227	1240	1316	1329	1345	1480	1480	1480	1600	1598	1603	1745	1745	1752
PDH15	AMPS	4.7	4.7	4.8	5.1	5.1	5.1	5.7	5.7	5.7	6.1	6.1	6.2	6.7	6.7	6.7
- ⊢	SHR	0.48	0.65	0.88	0.49	0.68	0.89	0.49	0.70	0.9	0.5	0.74	0.9	0.53	0.79	0.9

RATING POINT ARI 310/380

Extended Heating Performance

LXtell	ueu meatiii	g Ferrormance				
			OU	TDOOR DRY BULB TEMP. (DEGRE	ES F)	
		37	42	47	52	57
	BTUh	5250	5540	6300	6900	7620
PDH07	WATTS	509	518	540	549	580
	AMPS	2.3	2.4	2.4	2.5	2.6
	BTUh	6005	6399	8100	8647	9245
PDH09	WATTS	647	656	720	725	735
	AMPS	3.3	3.3	3.4	3.4	3.5
	BTUh	7726	8531	10700	11278	12234
PDH12	WATTS	883	917	1010	1039	1073
	AMPS	4	4.1	4.5	4.7	4.9
	BTUh	10530	10850	13300	14550	15940
PDH15	WATTS	1197	1212	1300	1377	1439
	AMPS	4.5	4.6	5	5.3	5.5
				DATING DOINT		

RATING POINT ARI 310/380

Electric Heat Data

Electric Heat Data

	PDE07K0		PDE/P		PDE/PDH07R		
HEATER WATTS	0 Kw	2000	1635	3000	2450	2000	3000
VOLTAGE	230/208	230	208	230	208	26	65
HEATING BTUh	0	6824	5580	10236	8360	6824	10236
HEATING CURRENT (AMPS)	0	8.9	7.9	13.2	12.2	7.6	11.4
MINIMUM CIRCUIT AMPACITY	4.0	11.4	10.0	16.8	15.6	9.6	14.6
BRANCH CIRCUIT FUSE (AMPS)	15	15	15	20	20	15	20

Electric Heat Data

	PDE09K0	0 PDE/PDH09K			PDE/PDH09R					
HEATER WATTS	0 Kw	2000	1635	3000	2450	5000	4090	2000	3000	5000
VOLTAGE	230/208	230	208	230	208	230	208	265		
HEATING BTUh	0	6824	5580	10236	8360	17060	13960	6824	10236	17060
HEATING CURRENT (AMPS)	0	8.9	7.9	13.2	12.2	21.5	20.5	7.6	11.4	19.0
MINIMUM CIRCUIT AMPACITY	5.2	11.4	10.0	16.8	15.6	27.2	26.0	9.8	14.6	24.1
BRANCH CIRCUIT FUSE (AMPS)	15	15	15	20	20	30	30	15	20	30

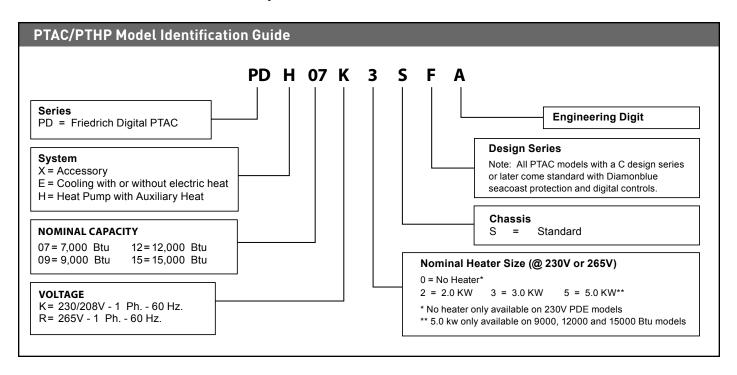
Electric Heat Data

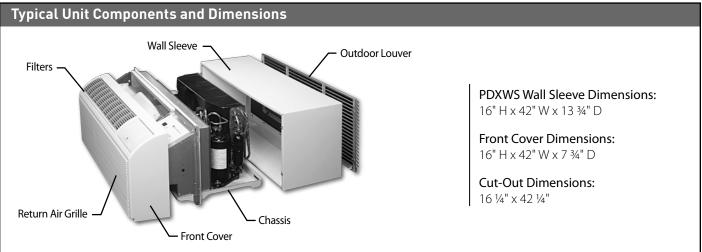
	PDE12K0		PDE/PDH12K			PDE/PDH12R				
HEATER WATTS	0 Kw	2000	1635	3000	2450	5000	4090	2000	3000	5000
VOLTAGE	230/208	230	208	230	208	230	208	265		
HEATING BTUh	0	6824	5580	10236	8360	17060	13960	6824	10236	17060
HEATING CURRENT (AMPS)	0	8.9	7.9	13.2	12.2	21.5	20.5	7.6	11.4	19.0
MINIMUM CIRCUIT AMPACITY	7.1	11.4	10.0	16.8	15.6	27.2	26.0	9.8	14.6	24.1
BRANCH CIRCUIT FUSE (AMPS)	15	15	15	20	20	30	30	15	20	30

Electric Heat Data

	PDE15K0		PDE/PDH15K			Р	DE/PDH15	R		
HEATER WATTS	0 Kw	2000	1635	3000	2450	5000	4090	2000	3000	5000
VOLTAGE	230/208	230	208	230	208	230	208	265		
HEATING BTUh	0	6824	5580	10236	8360	17060	13960	6824	10236	17060
HEATING CURRENT (AMPS)	0	8.9	7.9	13.2	12.2	21.5	20.5	7.6	11.4	19.0
MINIMUM CIRCUIT AMPACITY	9.1	11.4	10.0	16.8	15.6	27.2	26.0	9.8	14.6	24.1
BRANCH CIRCUIT FUSE (AMPS)	15	15	15	20	20	30	30	15	20	30

Model Identification / Components / Dimensions





PTAC

Cooling Only, Electric Heat, Heat Pump

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

ITEM	PLAN DESIGNATION	QUANTITY	COOLING BTU/H	VOLTAGE	FRIEDRICH MODEL

Accessories

Wall Sleeve	Qty	
Deep Wall Extension	Qty	
Standard Outdoor Louver	Qty	
Architectural Louver, clear	Qty	
Architectural Louver, beige	Qty	
Architectural Louver, color matched	Qty	
Remote Thermostat Escutcheon Kit	Qty	
Condensate Drain Kit (pkg/10)	Qty	
Sub Base	Qty	
T-Series Sleeve Adapter	Qty	
Conduit Kit w/Junction Box	Qty	
Lateral Duct Adapter	Qty	
Lateral Duct Extension	Qty	
Replacement Filters (Set of 10)	Qty	
	Deep Wall Extension Standard Outdoor Louver Architectural Louver, clear Architectural Louver, beige Architectural Louver, color matched Remote Thermostat Escutcheon Kit Condensate Drain Kit (pkg/10) Sub Base T-Series Sleeve Adapter Conduit Kit w/Junction Box Lateral Duct Adapter Lateral Duct Extension	Deep Wall Extension Qty Standard Outdoor Louver Qty Architectural Louver, clear Qty Architectural Louver, beige Qty Architectural Louver, color matched Qty Remote Thermostat Escutcheon Kit Qty Condensate Drain Kit (pkg/10) Qty Sub Base Qty T-Series Sleeve Adapter Qty Conduit Kit w/Junction Box Qty Lateral Duct Adapter Qty Lateral Duct Extension Qty

PXSB23015	Electrical Subbase - 230V 15A	Qty	
PXSB23020	Electrical Subbase - 230V 20A	Qty	
PXSB23030	Electrical Subbase - 230V 30A	Qty	
PXSB26515	Electrical Subbase - 265V 15A	Qty	
PXSB26520	Electrical Subbase - 265V 20A	Qty	
PXSB26530	Electrical Subbase - 265V 30A	Qty	
PXPC23000	LCDI 230V 15A Cord, 0kw	Qty	
PXPC23015	LCDI 230V 15A Cord, 2kW	Qty	
PXPC23020	LCDI 230V 20A Cord, 3kW	Qty	
PXPC23030	LCDI 230V 30A Cord, 5kW	Qty	
PXPC26515	Non-LCDI 265V 15A Cord, 2kW	Qty	
PXPC26520	Non-LCDI 265V 20A Cord, 3kW	Qty	
PXPC26530	Non-LCDI 265V 30A Cord, 5kW	Qty	
RT6	Digital Remote Thermostat-2 speed fan switch	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

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

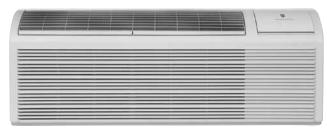
Desk control ready allowing hotel owners to control units from a central location

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

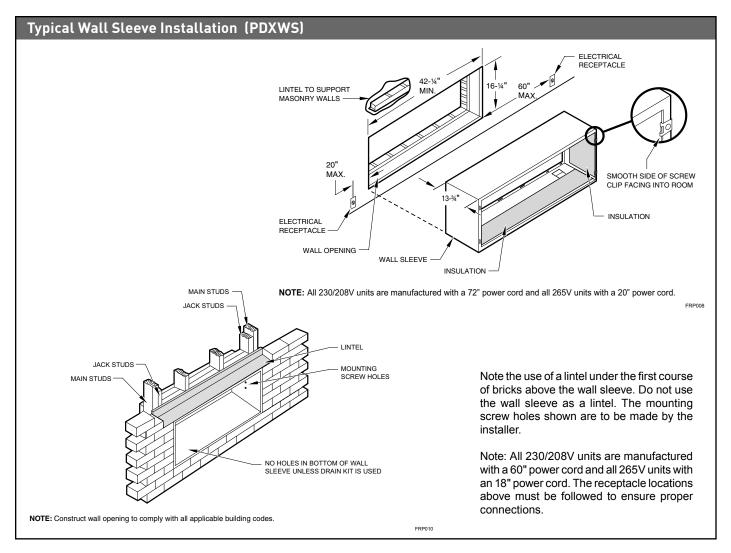
Universal heaters with heat capacities determined by the power cord used with the unit

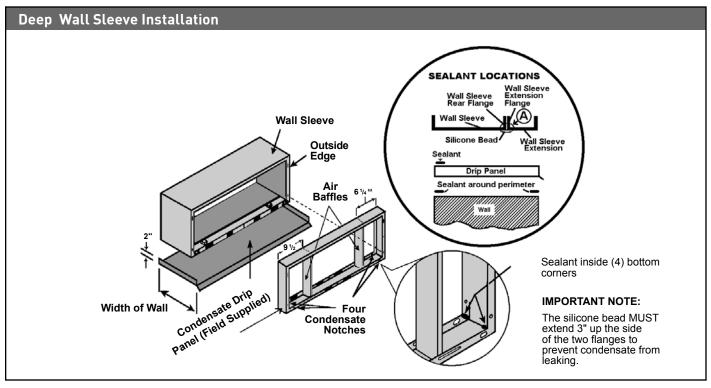
Fresh air damper control to bring in fresh outside air when desired

Washable, antimicrobial air filter Service error code memory storage Emergency heat override

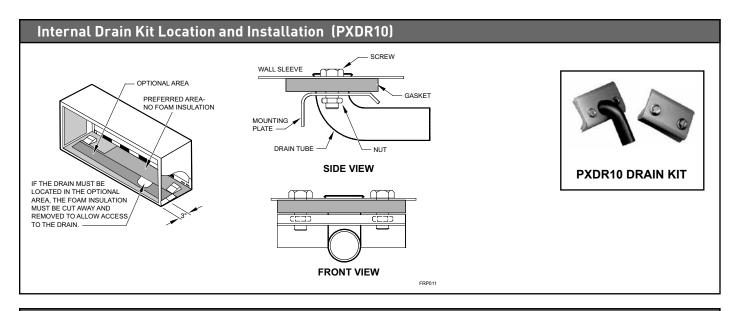


Installation





Accessory Installation

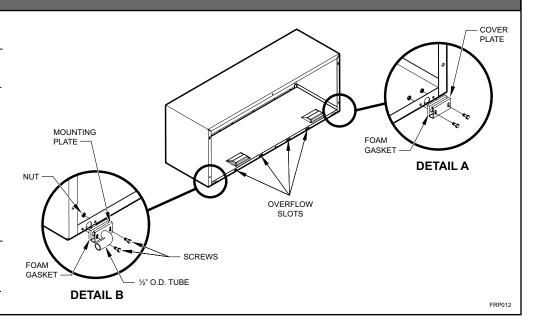


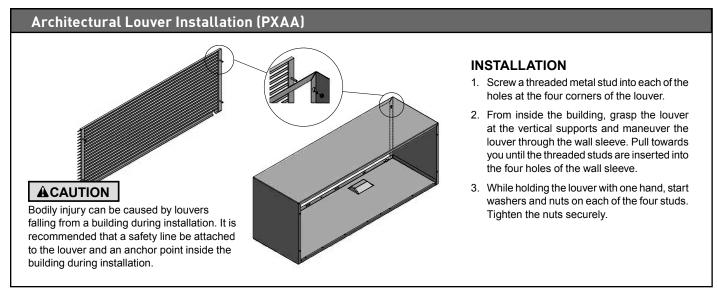
External Drain

When using an external drain system, the condensate is removed through either of two drain holes on the back of the wall sleeve. Select the drain hole which best meets your drainage situation and install the drain kit. Seal off the other with a cover plate.

Place the drain tube through the gasket and the mounting plate with the flange toward the wall sleeve.

Attach the drain tube assembly to one of the two drain holes at the rear of the wall sleeve. The large flange on the mounting plate is positioned at the bottom of the sleeve facing toward the sleeve. When the drain tube is positioned at the desired angle, tighten the screws.





HVAC Engineering Specifications

Digital Packaged Terminal Air Conditioners & Heat Pumps

Cooling: 7600 - 15,000 Btuh

Heating: 7600 – 14500 Btuh (Heat Pump) 6824 – 17060 Btuh (Electric Heat)

Friedrich Models: PDE – Cooling with or without electric heat

PDH - Heat Pump with electric heat

All units shall be factory assembled, piped, wired and fully charged with R-410A. All units shall be certified in accordance with ARI Standard 310 for air conditioners and ARI standard 380 for heat pumps. Units shall be UL listed and carry a UL label. All units shall be factory runtested to check operation and be Friedrich or equivalent.

The basic unit shall not exceed 16" high x 42" wide. Overall depth of the unit from the rear of the Friedrich wall sleeve to the front of the decorative front cover shall not exceed 21 $\frac{1}{4}$ ". The unit shall be designed so that room intrusion may be as little as 7 $\frac{1}{2}$ ". Installations in walls deeper than 13 $\frac{1}{4}$ " may be accomplished with the use of a deep wall sleeve (PDXWSEXT). Unit shall draw in ambient air through both sides of an outdoor architectural louver or grille measuring 42" wide x 16" high and shall exhaust air out middle portion of the louver. The architectural louver and wall sleeve shall be designed so that the louver may be installed from the inside of the building.

REFRIGERATION SYSTEM – The refrigeration system shall be hermetically sealed and consist of a rotary compressor that is externally mounted on vibration isolators no smaller than 1 3/8" dia. x 1 ½" high; condenser and evaporator coils constructed of copper tubes and aluminum plate fins; and capillaries as expansion devices. Unit shall have a fan slinger ring to increase efficiency and condensate disposal and have a drain pan capable of retaining 1 ½ gallons of condensate. A tertiary condensate removal system shall also be incorporated for back up and shall overflow through the wall sleeve and to the outside of the building as a safeguard against damage to the interior room.

INDOOR AIR HANDLING SECTION – The indoor air handling section shall consist of a tangential blower wheel direct driven by a totally enclosed motor. The air handling system shall be designed to minimize airflow noise and provide smooth and consistent airflow. The indoor fan must have three fan speeds that may be selected by the user.

The indoor discharge grille shall be designed to maximize airflow throughout the room. The grille shall be reversible to allow a change in the airflow directions. The grille openings shall be sized to prevent personal injury or damage to the unit.

The front cover shall incorporate dual air filters conveniently mounted in the front of the unit. The filters must be accessible without the removal of the front cover. The filters shall be made of anti-microbial material to prevent mold and bacterial growth. The filters shall be washable and reusable by cleaning with water or by vacuuming.

The chassis shall have a built-in damper capable of providing at least 75 CFM of fresh air into the conditioned area. A fine mesh screen shall filter the incoming fresh air. There must be a provision for locking the damper closed to ensure a proper seal.

OUTDOOR AIR HANDLING SECTION – The outdoor air section shall consist of a single injection molded fan shroud that incorporates the outdoor motor mount into a single piece for ease of service and assembly. The outdoor motor shall be totally enclosed, ball-bearing, permanently lubricated and directly drive the outdoor fan/slinger ring.

CONTROLS – Covered controls shall be accessible in a compartment at least $7\frac{1}{2}$ " wide with the controls no deeper than $1\frac{1}{4}$ " in the opening to facilitate easy operation of the unit.

The unit controls shall feature a soft blue LED readout that can display either room temperature or setpoint temperature. The unit shall receive input from the digital control panel through push buttons labeled: 'Cool', 'Heat', 'High Fan', 'Med Fan', 'Low Fan', ▲', '▼' and 'Power'. When 'Off', the unit may be put directly into cooling or heating mode by pressing the 'Cool' or 'Heat' button.

The unit must have the following energy saving and convenience features built-in:

- · Quiet start/stop fan delay
- · Fan cycle control for cooling and heating independently
- · Room freeze protection
- Random compressor restart
- Electronic temperature limiting

The PTAC must also offer the ability to be controlled by a remote wall-mounted thermostat without additional accessories. Low voltage inputs will include: C (common), R (24V power), Y (cooling), GL (fan low), GH (fan high), W (heat) and O (reversing valve on PDH heat pumps only).

PTAC models shall use a single stage cool / single stage heat thermostat. PTHP models shall use a single stage cool / two-stage heat thermostat. An accessory thermostat must be available from the manufacturer, RT6 or equivalent. The RT6 thermostat will provide temperature setpoint, mode selection from cool, heat and fan modes. The thermostat must also allow the selection of fan speed between high and low speed.

Other controls accessible without removal of the chassis shall include fan cycle switch, fresh air vent control and emergency heat override switch (heat pump only).

ELECTRICAL CONNECTION – All PTAC/PTHP units shall come from the factory with a power cord installed. All 230/208V power cords shall feature a leakage current detection device on the plug head. All units shall feature a 6-pin connector for removal of the power cord. The power cord shall be interchangeable to allow changes to the heater output based on the property/electrical requirements.

GENERAL CONSTRUCTION – The wall sleeve shall be constructed of 18-gauge Galvanized zinc-coated steel. It shall be prepared by a process where it is zinc phosphate pretreated and sealed with a chromate rinse, then powder coated with a polyester finish and oven cured for durability. The sleeve shall be shipped with a protective weatherboard and a structural center support, and be insulated for sound absorption and thermal efficiency. The grille or louver shall be shipped separately and made from stamped or extruded anodized aluminum. All louvers shall be in the horizontal plane.

The front panel shall attach firmly to the chassis by two hidden spring clips. As an option the cover may be attached by two screws to prevent tampering. The front panel will feature a contoured discharge with no sharp corners.

CORROSION PROTECTION – The unit shall have corrosion-resistant fans, fan shroud and drain pan for corrosion protection and to prevent rust on the side of the building below the outdoor louver. The unit shall feature corrosion resistant materials and finishes to help prevent deterioration. The outdoor coil shall have Diamonblue corrosion protection consisting of hydrophilic coated fins to prolong the life of the coil in all applications including seacoast environments. All outdoor coils shall also have stainless steel endplates to eliminate rusting of the endplates.

WARRANTY – The warranty is one year on all parts and 5 years on the sealed system including compressor, indoor and outdoor coils and refrigerant tubing.

Accessories

w Construction	Accessories	
PDXWS PDXWSEXT	WALL SLEEVE Galvanized zinc coated steel is prepared in an 11-step process, then powder coated with a polyester finish and cured in an oven for exceptional durability. The wall sleeve is insulated for sound absorption and thermal efficiency, 16" High x 42" Wide x 13 3/4" Deep. DEEP WALL SLEEVE EXTENSION For use when the wall is thicker than 13 1/4"deep. The wall sleeve may be special ordered through your Sales Representative and will be cut to your specific depth requirements	PDXWS PDXWSEXT
PXGA	GRILLE Standard, stamped aluminium, anodized to resist chalking and oxidation.	
PXAA PXBG PXSC	ARCHITECTURAL GRILLES Consist of heavy-gauge 6063-T5 aluminum alloy: PXAA – Clear, extruded aluminum PXBG – Beige acrylic enamel PXSC – Also available in custom colors.	PXGA
		PXAA
PXDR10	CONDENSATE DRAIN KIT Attaches to the bottom of the wall sleeve for internal draining of condensate or to the rear wall sleeve flange for external draining. Recommended on all units to remove excess condensate. Packaged in quantities of ten.	
PXSB	DECORATIVE SUBBASE Provides unit support for walls less than six inches thick. Includes leveling legs, side filler panels and mounting brackets for electrical accessories. Accepts circuit breaker, power disconnect switch, or conduit kit.	
RT6	DIGITAL REMOTE WALL THERMOSTAT Single stage cool, single stage heat for PDE models or single stage cool, dual stage heat for PDH model thermostat features high/low fan speed switch. Thermostat is hard wired and can be battery powered or unit powered. Features backlit display and multiple configuration modes. For use on PD-series Friedrich PTACs and Vert-I-Paks.	The street of th
PDXRTA	REMOTE THERMOSTAT ESCUTCHEON KIT This kit contains ten escutcheons that can be placed over the factory control buttons when a remote wall mounted thermostat is used. The escutcheon directs the guest to the wall thermostat for operation and retains the LED window to display error codes and diagnostic information.	Controlled by Wall Thermosted the well thousand in special and
PXSE	SLEEVE EXTENSION RETROFIT KIT Galvanized zinc coated steel, 2.4" sleeve extension attached to the room side of the sleeve to allow for the installation of a PD-Series Friedrich PTAC in a T-Series sleeve.	
PDXDAA	LATERAL DUCT ADAPTER Attaches to the PTAC/PTHP unit and provides a transition to direct up to 35% of the total CFM to a secondary room, either left or right of the unit. Kit includes duct plenum with discharge grille and internal baffle, adapter and end cap.	
PDXDEA	LATERAL DUCT EXTENSION A three-foot insulated plenum that attaches to the left or right side of the duct adapter. The extension can be cut to length by the installer. Maximum allowable straight extension is 15 feet.	

Accessories

New Construction	Accessories
PXCJA	CONDUIT KIT WITH JUNCTION BOX Hard wire conduit kit with junction box for 208/230V and 265V units (subbase not required). Kit includes a means of quick disconnect for easy removal of the chassis. *Required for 265V installations.
PXFTA	REPLACEMENT FILTER PACK These are original equipment return air filters. They are reusable and can be cleaned by vacuuming, washing, or blowing out, and are sold in convenient ten-packs. (Two filters per chassis).

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Friedrich Air Conditioning Company

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www.friedrich.com

PD-SERIES PACKAGED TERMINAL AIR CONDITIONERS LIMITED WARRANTY

SAVE THIS CERTIFICATE. It gives you specific rights. You may also have other rights which may vary from state to state and province to province.

In the event that your unit needs servicing, contact your nearest authorized service center. If you do not know the nearest service center, ask the company that installed your unit or contact us - see address and telephone number above. To obtain service and/or warranty parts replacement, you must notify an authorized FRIEDRICH Air Conditioning Co. service center, distributor, dealer, or contractor of any defect within the applicable warranty period.

When requesting service: please have the model and serial number from your unit readily available.

Unless specified otherwise herein, the following applies:

FRIEDRICH PACKAGED TERMINAL AIR CONDITIONERS AND HEAT PUMPS

LIMITED WARRANTY - FIRST YEAR (Twelve (12) months from the date of installation). Any part found to be defective in the material or workmanship will be repaired or replaced free of charge by our authorized service center during the normal working hours; and

LIMITED WARRANTY - SECOND THROUGH FIFTH YEAR (Sixty (60) months from the date of installation). ON THE SEALED REFRIGERATION SYSTEM. Any part of the sealed refrigeration system that is defective in material or workmanship will be repaired or replaced free of charge (excluding freight charges) by our authorized service center during normal working hours. The sealed refrigeration system consists of the compressor, metering device, evaporator, condenser, reversing valve, check valve, and the interconnecting tubing.

These warranties apply only while the unit remains at the original site and only to units installed inside the continental United States, Alaska, Hawaii, Puerto Rico, Mexico and Canada. The warranty applies only if the unit is installed and operated in accordance with the printed instructions and in compliance with applicable local installation and building codes and good trade practices. For international warranty information, contact the Friedrich Air Conditioning Company - International Division.

Any defective part to be replaced must be made available to **FRIEDRICH** in exchange for the replacement part. Reasonable proof must be presented to establish the date of install, otherwise the beginning date of this certificate will be considered to be our shipment date plus sixty days. Replacement parts can be new or remanufactured. Replacement parts and labor are only warranted for any unused portion of the unit's warranty.

We will not be responsible for and the user will pay for:

- 1. Service calls to:
 - A) Instruct on unit operation. B) Replace house fuses or correct house wiring. C) Clean or replace air filters. D) Remove the unit from its installed location when not accessible for service required. E) Correct improper installations.
- 2. Parts or labor provided by anyone other than an authorized service center.
- 3. Damage caused by:
 - A) Accident, abuse, negligence, misuse, riot, fire, flood, or acts of God. B) Operating the unit where there is a corrosive atmosphere containing chlorine, fluorine, or any damaging chemicals (other than in a normal residential environment). C) Unauthorized alteration or repair of the unit, which in turn affects its stability or performance. D) Failing to provide proper maintenance and service. E) Using an incorrect power source. F) Faulty installation or application of the unit.

We shall not be liable for any incidental, consequential, or special damages or expenses in connection with any use or failure of this unit. We have not made and do not make any representation or warranty of fitness for a particular use or purpose and there is no implied condition of fitness for a particular use or purpose. We make no expressed warranties except as stated in this certificate. No one is authorized to change this certificate or to create for us any other obligation or liability in connection with this unit. Any implied warranties shall last for one year after the original purchase date. Some states and provinces do not allow limitations on how long an implied warranty or condition lasts, so the above limitations or exclusions may not apply to you. The provisions of this warranty are in addition to and not a modification of or subtraction from the statutory warranties and other rights and remedies provided by law.

Performance of Friedrich's Warranty obligation is limited to one of the following methods:

- 1. Repair of the unit
- 2. A refund to the customer for the prorated value of the unit based upon the remaining warranty period of the unit.
- 3. Providing a replacement unit of equal value

The method of fulfillment of the warranty obligation is at the sole discretion of Friedrich Air Conditioning.

In case of any questions regarding the provisions of this warranty, the English version will govern.

(10-09)