



FRIEDRICH

1 8 8 3

PACKAGED TERMINAL AIR CONDITIONERS

SG SERIES

Features

- Tangential blower wheel for fast, powerful and even air distribution
- Two permanently-lubricated fan motors for quiet operation
- EERs up to 13.0; COPs up to 3.6
- 2 heating and cooling fan speeds and AUTO mode
- Separate thermostat settings (limiting) for cooling and heating modes allow for improved comfort
- Internal diagnostic program
- Wireless or wired remote thermostat operation
- Desk control ready
- Compatible with energy management systems
- Reversible indoor air louvers
- Condensate removal system uses slinger ring technology to cool the coil and increase efficiency
- Antimicrobial air filters
- Modular design ensures easy access to key components
- Constant Fan Mode provides constant fan operation in cooling and heating modes.
- Fits standard PTAC sleeve without added cost of a baffle kit
- 2-yr. parts and labor warranty; 5-yr. limited warranty (see warranty document on back page for full details)


DIAMONBLUE™
Advanced Corrosion Protection



Protects the outdoor coil against deterioration and extends the life of the unit especially in harsh coastal environments.



Product Features

DIGITAL TEMPERATURE READOUT	By digitally monitoring the desired room temperature, the room is controlled more precisely than conventional systems. The large, easy-to-read LED display can show either the set point or actual room temperature as selected by owner.
ONE-TOUCH OPERATION	When the unit is powered off, the unit can be returned directly to heating or cooling mode by pressing the 'Heat' or 'Cool' buttons without the confusing power up sequence of some controls. One-touch control takes the guesswork out of unit control, delivering a more enjoyable experience and eliminating front-desk calls.
FAN SPEED MODE	Friedrich PTAC/PTHP units feature two fan speeds and AUTO mode for the user to select from. This allows the user to properly select the amount of airflow for the desired comfort level and also deliver quiet performance.
CONSTANT FAN MODE	Pressing the Constant fan mode button will provide constant fan operation in cooling or heating modes. The fan speed selection is made by pressing either "High" or "Low" fan speed button.
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.
QUIET START/STOP FAN DELAY	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 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.
SERVICE ERROR CODE STORAGE	All Friedrich PTAC units have self-diagnostic features that will store trouble codes in the case of an event. Storing the codes allows the property to see the trouble codes at a future time after the condition may have corrected.
ROOM FREEZE PROTECTION	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 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 RESTART	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 power up. The compressor delay will range from 180 to 240 seconds.
CONDENSATE REMOVAL SYSTEM	Condenser fan utilizes slinger ring technology to pick up condensate from the base pan and disperse it on to the condenser coil where it evaporates. This helps to cool the coil and increase the energy efficiency of the unit.

Product Features

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.
DIAMONBLUE™ TECHNOLOGY	Diamonblue anticorrosive coating protects the outdoor coil from harsh environments. Standard on all models.
DIGITAL DEFROST THERMOSTAT	The PD Series 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, ensuring room temperature is within 5° F of the setpoint. If needed, the unit will briefly cycle the electric heater to maintain temperature. This feature preserves the efficiency benefits of a heat pump while ensuring guest comfort.
SEPARATE HEAT/COOL FAN CYCLE CONTROL	Using the "Constant Fan" one 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 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	The dual-motor design means that 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 Btu	7200/7000	7200	9400/9200	9400	11800/11600	11800	14500/14200	14500
POWER (WATTS)	550/535	550	775/760	775	1015/1000	1015	1390/1365	1390
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
DEHUMIDIFICATION (pints/hr)	1.7	1.7	2.1	2.1	2.7	2.7	3.1	3.1
SENSIBLE HEAT RATIO	0.86	0.86	0.85	0.85	0.75	0.75	0.67	0.67
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
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
Fan motor horsepower	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:								
DIMENSIONS (H x W x D)	16" x 42" x 13 3/4" (all models)							
NET WEIGHT (lbs.)	105.73	106.83	114.54	114.54	118.94	117.84	120.04	120.04
SHIPPING WEIGHT (lbs.)	125.55	126.65	134.36	134.36	138.77	137.67	139.87	139.87
R-410A CHARGE (oz)	22.90	22.90	23.60	23.60	35.27	35.27	35.27	35.27
Dim.s w/ Pkg. (inches)	17 7/8" x 45" x 25 1/4" (all models)							

PDH Series

	PDH07K	PDH07R	PDH09K	PDH09R	PDH12K	PDH12R	PDH15K	PDH15R
PERFORMANCE DATA:								
COOLING Btu	7200/7000	7200	9400/9200	9400	11800/11600	11800	14500/14200	14500
POWER (WATTS) cool	550/535	550	775/760	775	1015/1000	1015	1390/1365	1390
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
REVERSE HEATING Btu	6000/5800	6000	8300/8100	8300	10600/10400	10600	13300/13000	13300
POWER (WATTS) HEAT	485/470	485	695/675	695	910/895	910	1255/1225	1255
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
DEHUMIDIFICATION (pints/hr)	1.7	1.7	2.1	2.1	2.7	2.7	3.1	3.1
SENSIBLE HEAT RATIO	0.86	0.86	0.85	0.85	0.75	0.75	0.67	0.67
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
Fan motor horsepower	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:								
DIMENSIONS (H x W x D)	16" x 42" x 13 3/4" (all models)							
NET WEIGHT (lbs.)	112.33	111.23	118.94	118.94	121.15	118.94	123.35	121.15
SHIPPING WEIGHT (lbs.)	132.16	131.06	138.77	138.77	140.97	138.77	143.17	143.17
R-410A CHARGE (oz)	33.90	33.90	33.90	33.90	35.27	35.27	38.80	38.80
Dim.s w/ Pkg. (inches)	17 7/8" x 45" x 25 1/4" (all models)							

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

RECEPTACLES AND FUSE TYPES						
Voltage	230V			265V		
	15	20	30	15	20	30
Amps	2.5 kW	3.5 kW	5.0 kW	2.5 kW	3.5 kW	5.0 kW
Heater Size	2.5 kW	3.5 kW	5.0 kW	2.5 kW	3.5 kW	5.0 kW
Receptacles						
NEMA# Receptacle	6-15R	6-20R	6-30R	7-15R	7-20R	7-30R
NEMA# Plug	6-15P	6-20P	6-30P	7-15P	7-20P	7-30P



Cooling & Heating Performance

PDE 230V - Extended Cooling Performance

		OUTDOOR DRY BULB TEMP. (DEGREES F AT 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
PDE07	Btu	8467	8143	7538	8064	7603	7013	7747	7200	6372	7258	6444	5681	6458	5558	4910
	WATTS	449	456	461	489	494	500	550	550	550	595	594	596	648	648	651
	AMPS	2.2	2.2	2.3	2.4	2.4	2.4	2.7	2.7	2.7	2.9	2.9	2.9	3.2	3.2	3.2
	SHR	0.59	0.8	0.98	0.6	0.83	0.91	0.6	0.86	0.91	0.62	0.91	0.96	0.65	0.97	0.98
PDE09	Btu	11054	10631	9842	10528	9926	9156	10114	9400	8319	9475	8413	7417	8432	7257	6411
	WATTS	632	642	649	689	696	704	775	775	775	838	837	839	914	914	918
	AMPS	3.1	3.1	3.1	3.3	3.3	3.3	3.7	3.7	3.7	4	4	4	4.3	4.3	4.4
	SHR	0.58	0.79	0.96	0.59	0.82	0.97	0.6	0.85	0.97	0.61	0.9	0.98	0.64	0.96	0.97
PDE12	Btu	13877	13346	12355	13216	12461	11493	12697	11800	10443	11894	10561	9310	10585	9110	8048
	WATTS	828	841	851	902	911	923	1015	1015	1015	1097	1096	1099	1197	1197	1202
	AMPS	4.1	4.1	4.1	4.4	4.4	4.4	4.9	4.9	4.9	5.3	5.3	5.3	5.8	5.8	5.8
	SHR	0.51	0.70	0.94	0.52	0.72	0.96	0.53	0.75	0.96	0.54	0.79	0.97	0.57	0.84	0.96
PDE15	Btu	17052	16400	15182	16240	15312	14123	15602	14500	12833	14616	12978	11441	13007	11194	9889
	WATTS	1134	1152	1165	1236	1248	1264	1390	1390	1390	1503	1501	1505	1639	1639	1646
	AMPS	5.1	5.2	5.2	5.5	5.5	5.6	6.2	6.2	6.2	6.7	6.7	6.7	7.3	7.3	7.3
	SHR	0.46	0.62	0.84	0.47	0.65	0.86	0.47	0.67	0.86	0.48	0.71	0.87	0.51	0.75	0.86
		RATING POINT ARI 310/380														

PDH 230V - Extended Cooling Performance

		OUTDOOR DRY BULB TEMP. (DEGREES F AT 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
PDH07	Btu	8467	8143	7538	8064	7603	7013	7747	7200	6372	7258	6444	5681	6458	5558	4910
	WATTS	449	456	461	489	494	500	550	550	550	595	594	596	648	648	651
	AMPS	2.2	2.2	2.3	2.4	2.4	2.4	2.7	2.7	2.7	2.9	2.9	2.9	3.2	3.2	3.2
	SHR	0.59	0.8	0.98	0.6	0.83	0.91	0.6	0.86	0.91	0.62	0.91	0.96	0.65	0.97	0.98
PDH09	Btu	11054	10631	9842	10528	9926	9156	10114	9400	8319	9475	8413	7417	8432	7257	6411
	WATTS	632	642	649	689	696	704	775	775	775	838	837	839	914	914	918
	AMPS	3.1	3.1	3.1	3.3	3.3	3.3	3.7	3.7	3.7	4	4	4	4.3	4.3	4.4
	SHR	0.58	0.79	0.96	0.59	0.82	0.97	0.6	0.85	0.97	0.61	0.9	0.98	0.64	0.96	0.97
PDH12	Btu	13877	13346	12355	13216	12461	11493	12697	11800	10443	11894	10561	9310	10585	9110	8048
	WATTS	828	841	851	902	911	923	1015	1015	1015	1097	1096	1099	1197	1197	1202
	AMPS	4.1	4.1	4.1	4.4	4.4	4.4	4.9	4.9	4.9	5.3	5.3	5.3	5.8	5.8	5.8
	SHR	0.51	0.70	0.94	0.52	0.72	0.96	0.53	0.75	0.96	0.54	0.79	0.97	0.57	0.84	0.96
PDH15	Btu	17052	16400	15182	16240	15312	14123	15602	14500	12833	14616	12978	11441	13007	11194	9889
	WATTS	1134	1152	1165	1236	1248	1264	1390	1390	1390	1503	1501	1505	1639	1639	1646
	AMPS	5.1	5.2	5.2	5.5	5.5	5.6	6.2	6.2	6.2	6.7	6.7	6.7	7.3	7.3	7.3
	SHR	0.46	0.62	0.84	0.47	0.65	0.86	0.47	0.67	0.86	0.48	0.71	0.87	0.51	0.75	0.86
		RATING POINT ARI 310/380														

Extended Heating Performance

		OUTDOOR DRY BULB TEMP. (DEGREES F)				
		37	42	47	52	57
PDH07	Btu	5000	5276	6000	6571	7257
	WATTS	457	465	485	493	521
	AMPS	2.5	2.6	2.6	2.7	2.8
PDH09	Btu	6153	6557	8300	8860	9473
	WATTS	624	634	695	700	709
	AMPS	3.3	3.3	3.4	3.4	3.5
PDH12	Btu	7654	8451	10600	11172	12120
	WATTS	796	826	910	936	967
	AMPS	3.7	3.8	4.2	4.4	4.6
PDH15	Btu	10530	10850	13300	14550	15940
	WATTS	1155	1170	1255	1330	1389
	AMPS	5.6	5.7	6.2	6.5	6.8
		RATING POINT ARI 310/380				

Cooling & Heating Performance

PDE 265V - Extended Cooling Performance

		OUTDOOR DRY BULB TEMP. (DEGREES F AT 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
PDE07	Btu	8467	8143	7538	8064	7603	7013	7747	7200	6372	7258	6444	5681	6458	5558	4910
	WATTS	449	456	461	489	494	500	550	550	550	595	594	596	648	648	651
	AMPS	2	2	2	2.1	2.1	2.2	2.4	2.4	2.4	2.6	2.6	2.6	2.8	2.8	2.8
	SHR	0.59	0.8	0.98	0.6	0.83	0.91	0.6	0.86	0.91	0.62	0.91	0.96	0.65	0.97	0.98
PDE09	Btu	11054	10631	9842	10528	9926	9156	10114	9400	8319	9475	8413	7417	8432	7257	6411
	WATTS	632	642	649	689	696	704	775	775	775	838	837	839	914	914	918
	AMPS	2.7	2.7	2.8	2.9	3	3	3.3	3.3	3.3	3.6	3.6	3.6	3.9	3.9	3.9
	SHR	0.58	0.79	0.96	0.59	0.82	0.97	0.6	0.85	0.97	0.61	0.9	0.98	0.64	0.96	0.97
PDE12	Btu	13877	13346	12355	13216	12461	11493	12697	11800	10443	11894	10561	9310	10585	9110	8048
	WATTS	828	841	851	902	911	923	1015	1015	1015	1097	1096	1099	1197	1197	1202
	AMPS	3.5	3.5	3.5	3.7	3.8	3.8	4.2	4.2	4.2	4.5	4.5	4.5	4.9	4.9	4.9
	SHR	0.51	0.70	0.94	0.52	0.72	0.96	0.53	0.75	0.96	0.54	0.79	0.97	0.57	0.84	0.96
PDE15	Btu	17052	16400	15182	16240	15312	14123	15602	14500	12833	14616	12978	11441	13007	11194	9889
	WATTS	1134	1152	1165	1236	1248	1264	1390	1390	1390	1503	1501	1505	1639	1639	1646
	AMPS	4.5	4.5	4.5	4.8	4.8	4.9	5.4	5.4	5.4	5.8	5.8	5.8	6.3	6.3	6.4
	SHR	0.46	0.62	0.84	0.47	0.65	0.86	0.47	0.67	0.86	0.48	0.71	0.87	0.51	0.75	0.86

RATING POINT
ARI 310/380

PDH 265V - Extended Cooling Performance

		OUTDOOR DRY BULB TEMP. (DEGREES F AT 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
PDH07	Btu	8467	8143	7538	8064	7603	7013	7747	7200	6372	7258	6444	5681	6458	5558	4910
	WATTS	449	456	461	489	494	500	550	550	550	595	594	596	648	648	651
	AMPS	2	2	2	2.1	2.1	2.2	2.4	2.4	2.4	2.6	2.6	2.6	2.8	2.8	2.8
	SHR	0.59	0.8	0.98	0.6	0.83	0.91	0.6	0.86	0.91	0.62	0.91	0.96	0.65	0.97	0.98
PDH09	Btu	11054	10631	9842	10528	9926	9156	10114	9400	8319	9475	8413	7417	8432	7257	6411
	WATTS	632	642	649	689	696	704	775	775	775	838	837	839	914	914	918
	AMPS	2.7	2.7	2.8	2.9	3	3	3.3	3.3	3.3	3.6	3.6	3.6	3.9	3.9	3.9
	SHR	0.58	0.79	0.96	0.59	0.82	0.97	0.6	0.85	0.97	0.61	0.9	0.98	0.64	0.96	0.97
PDH12	Btu	13877	13346	12355	13216	12461	11493	12697	11800	10443	11894	10561	9310	10585	9110	8048
	WATTS	828	841	851	902	911	923	1015	1015	1015	1097	1096	1099	1197	1197	1202
	AMPS	3.5	3.5	3.5	3.7	3.8	3.8	4.2	4.2	4.2	4.5	4.5	4.5	4.9	4.9	4.9
	SHR	0.51	0.70	0.94	0.52	0.72	0.96	0.53	0.75	0.96	0.54	0.79	0.97	0.57	0.84	0.96
PDH15	Btu	17052	16400	15182	16240	15312	14123	15602	14500	12833	14616	12978	11441	13007	11194	9889
	WATTS	1134	1152	1165	1236	1248	1264	1390	1390	1390	1503	1501	1505	1639	1639	1646
	AMPS	4.5	4.5	4.5	4.8	4.8	4.9	5.4	5.4	5.4	5.8	5.8	5.8	6.3	6.3	6.4
	SHR	0.46	0.62	0.84	0.47	0.65	0.86	0.47	0.67	0.86	0.48	0.71	0.87	0.51	0.75	0.86

RATING POINT
ARI 310/380

Extended Heating Performance

		OUTDOOR DRY BULB TEMP. (DEGREES F)				
		37	42	47	52	57
PDH07	Btu	5000	5276	6000	6571	7257
	WATTS	457	465	485	493	521
	AMPS	2.1	2.2	2.2	2.3	2.4
PDH09	Btu	6153	6557	8300	8860	9473
	WATTS	624	634	695	700	709
	AMPS	3	3	3.1	3.1	3.2
PDH12	Btu	7654	8451	10600	11172	12120
	WATTS	796	826	910	936	967
	AMPS	3.3	3.4	3.7	3.9	4.0
PDH15	Btu	10530	10850	13300	14550	15940
	WATTS	1155	1170	1255	1330	1389
	AMPS	4.5	4.6	5.0	5.3	5.5

RATING POINT
ARI 310/380

Electric Heat Data

Electric Heat Data

	PDE/PDH07K				PDE/PDH07R	
HEATER WATTS	2450	2003	3450	2821	2450	3450
VOLTAGE	230	208	230	208	265	
HEATING Btu	8300	6800	11700	9600	8300	11700
HEATING CURRENT (AMPS)	10.7	9.7	15.0	13.6	9.3	13.1
MINIMUM CIRCUIT AMPACITY (MCA)	14.0	14.0	19.0	19.0	12.0	17.0
MAXIMUM OVER CURRENT PROTECTION (MOP/MOCP)/BRANCH CIRCUIT FUSE (AMPS)	15.0	15.0	20.0	20.0	15.0	20.0

Electric Heat Data

	PDE/PDH09K						PDE/PDH09R		
HEATER WATTS	2450	2003	3450	2821	5000	4089	2450	3450	5000
VOLTAGE	230	208	230	208	230	208	265		
HEATING Btu	8300	6800	11700	9600	17000	13900	8300	11700	17000
HEATING CURRENT (AMPS)	10.7	9.7	15.0	13.6	21.8	19.7	9.3	13.1	18.9
MINIMUM CIRCUIT AMPACITY	14.0	14.0	19.0	19.0	28.0	28.0	12.0	17.0	24.0
MAXIMUM OVER CURRENT PROTECTION (MOP/MOCP)/BRANCH CIRCUIT FUSE (AMPS)	15.0	15.0	20.0	20.0	30.0	30.0	15.0	20.0	25.0

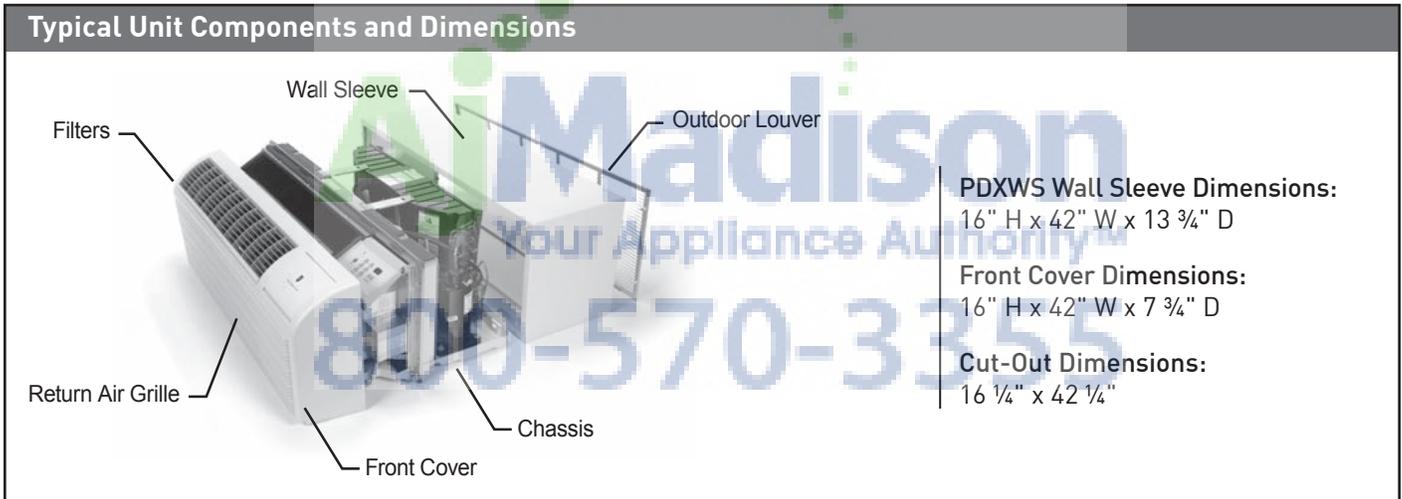
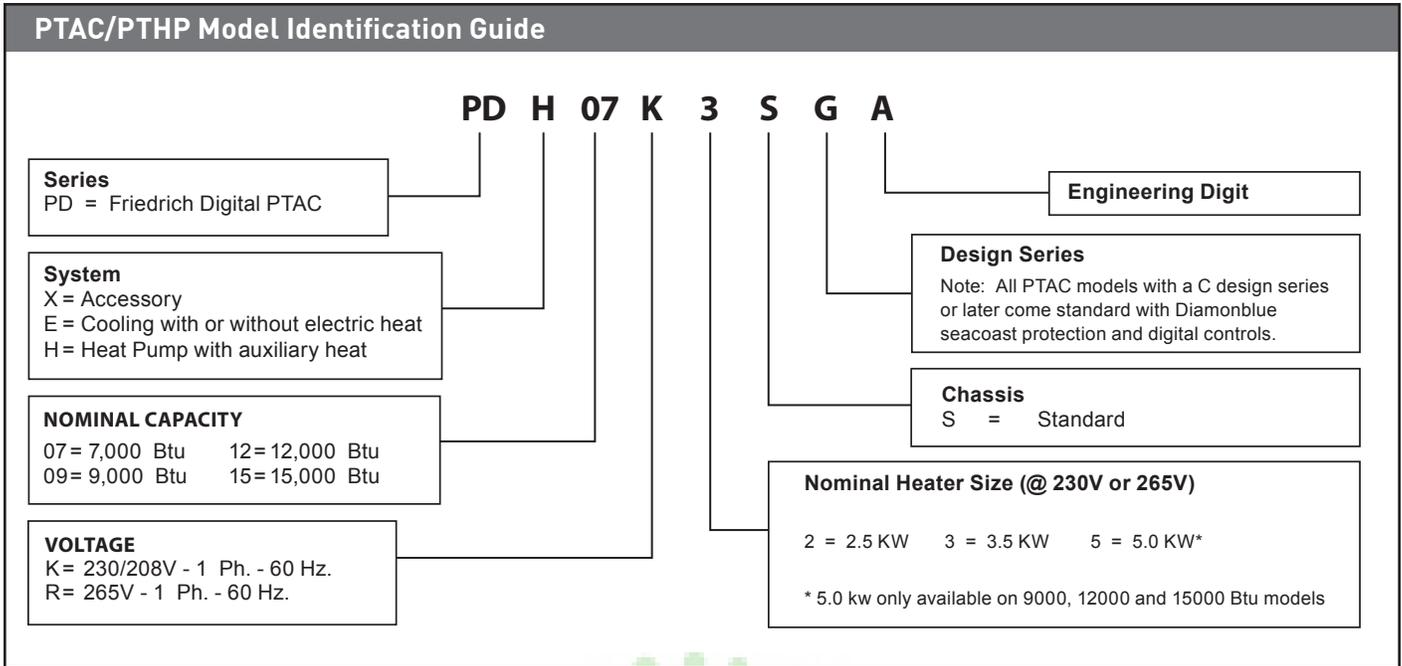
Electric Heat Data

	PDE/PDH12K						PDE/PDH12R		
HEATER WATTS	2450	2003	3450	2821	5000	4089	2450	3450	5000
VOLTAGE	230	208	230	208	230	208	265		
HEATING Btu	8300	6800	11700	9600	17000	13900	8300	11700	17000
HEATING CURRENT (AMPS)	10.7	9.7	15.0	13.6	21.8	19.7	9.3	13.1	18.9
MINIMUM CIRCUIT AMPACITY	14.0	14.0	19.0	19.0	28.0	28.0	12.0	17.0	24.0
MAXIMUM OVER CURRENT PROTECTION (MOP/MOCP)/BRANCH CIRCUIT FUSE (AMPS)	15.0	15.0	20.0	20.0	30.0	30.0	15.0	20.0	25.0

Electric Heat Data

	PDE/PDH15K						PDE/PDH15R		
HEATER WATTS	2450	2003	3450	2821	5000	4089	2450	3450	5000
VOLTAGE	230	208	230	208	230	208	265		
HEATING Btu	8300	6800	11700	9600	17000	13900	8300	11700	17000
HEATING CURRENT (AMPS)	10.7	9.7	15.0	13.6	21.8	19.7	9.3	13.1	18.9
MINIMUM CIRCUIT AMPACITY	14.0	14.0	19.0	19.0	28.0	28.0	12.0	17.0	24.0
MAXIMUM OVER CURRENT PROTECTION (MOP/MOCP)/BRANCH CIRCUIT FUSE (AMPS)	15.0	15.0	20.0	20.0	30.0	30.0	15.0	20.0	25.0

Model Identification / Components / Dimensions



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	
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	
PDXRTA	Remote Thermostat Escutcheon Kit	Qty	
PXDR10	Condensate Drain Kit (pkg/10)	Qty	
PXSBA	Sub Base	Qty	
PXSE	T-Series Sleeve Adapter	Qty	
PXCJA	Conduit Kit w/Junction Box	Qty	
PDXDAA	Lateral Duct Adapter	Qty	
PDXDEA	Lateral Duct Extension	Qty	

PXSB23020	Electrical Subbase - 230V 15A and 20A	Qty	
PXSB23030	Electrical Subbase - 230V 30A	Qty	
PXSB26515A	Electrical Subbase - 265V 15A	Qty	
PXSB26520A	Electrical Subbase - 265V 20A	Qty	
PXSB26530	Electrical Subbase - 265V 30A	Qty	
PXPC23015A	LCDI 230V 15A Cord, 2kW	Qty	
PXPC23020A	LCDI 230V 20A Cord, 3kW	Qty	
PXPC23030	LCDI 230V 30A Cord, 5kW	Qty	
PXPC26515A	Non-LCDI 265V 15A Cord, 2kW	Qty	
PXPC26520A	Non-LCDI 265V 20A Cord, 3kW	Qty	
PXPC26530	Non-LCDI 265V 30A Cord, 5kW	Qty	
RT6	Wired Digital Thermostat	Qty	
WRT1	Wireless Digital Thermostat	Qty	
EMRT1	Wired Thermostat with Occupancy Sensor	Qty	
EMWRT1	Wireless Thermostat with Occupancy Sensor	Qty	
EMOCT	Online Connection Kit	Qty	
EMRAF	Remote Access Fee	Qty	
PXFTA	Replacement Filters (Set of 10)	Qty	

Features

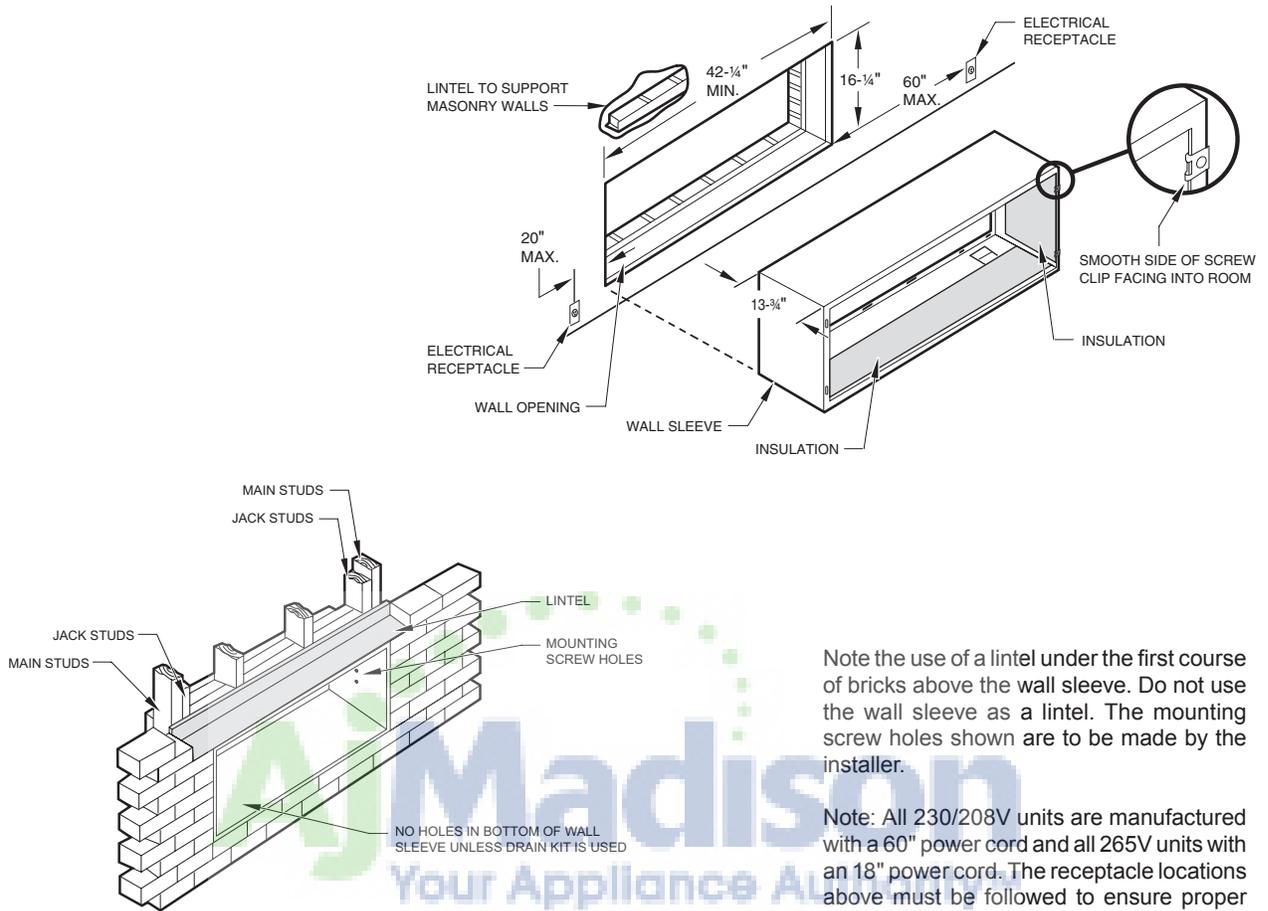
Constant room comfort monitoring
 "Instant Heat" heat pump mode quickly heats a room to the desired temperature for increased comfort
 Even heat monitoring checks room temperature and automatically adds heat boost if necessary
 Room freeze protection- heat initiated if temperature falls to 40°F in an 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
 Condensate removal systems uses slinger ring technology

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
 Diamonblue™ Advanced Corrosion Protection
 Constant Fan Mode

Installation

Typical Wall Sleeve Installation (PDXWS)



Note the use of a lintel under the first course of bricks above the wall sleeve. Do not use the wall sleeve as a lintel. The mounting screw holes shown are to be made by the installer.

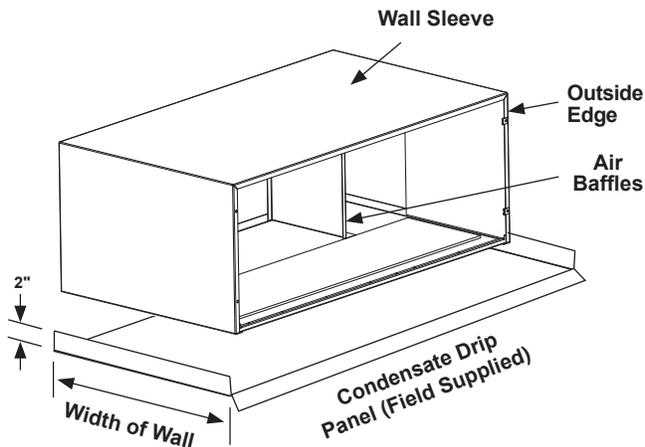
Note: All 230/208V units are manufactured with a 60" power cord and all 265V units with an 18" power cord. The receptacle locations above must be followed to ensure proper connections.

NOTE: Construct wall opening to comply with all applicable building codes.

FRP010

800-570-3355

Deep Wall Sleeve Installation



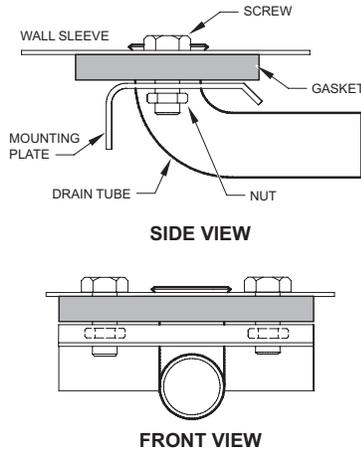
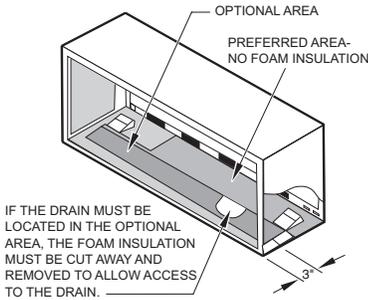
Seal condensate drip pan to wall sleeve with sealant on all (4) bottom corners.

IMPORTANT NOTE:

The silicone bead **MUST** extend up the side of the two flanges to prevent condensate from leaking.

Accessory Installation

Internal Drain Kit Location and Installation (PXDR10)



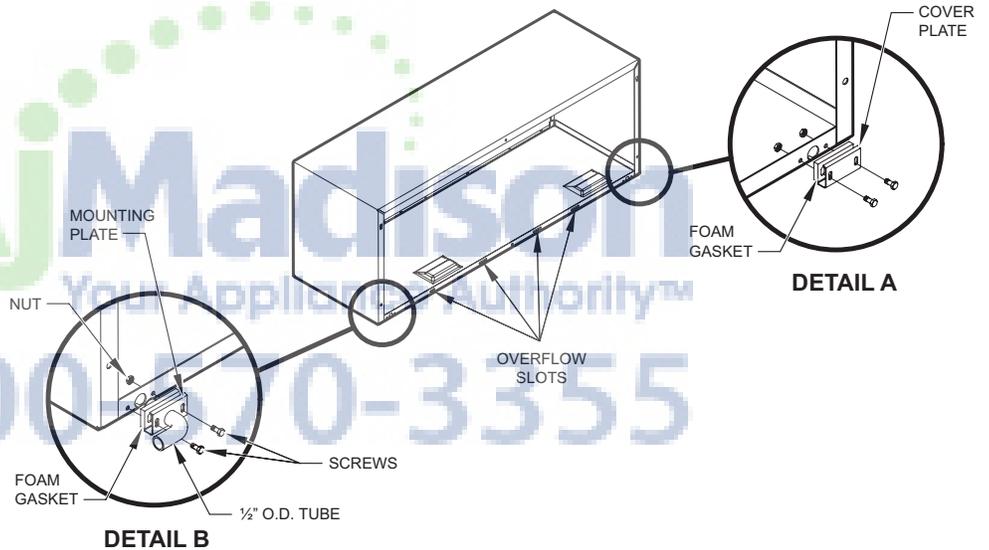
FRP011

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.

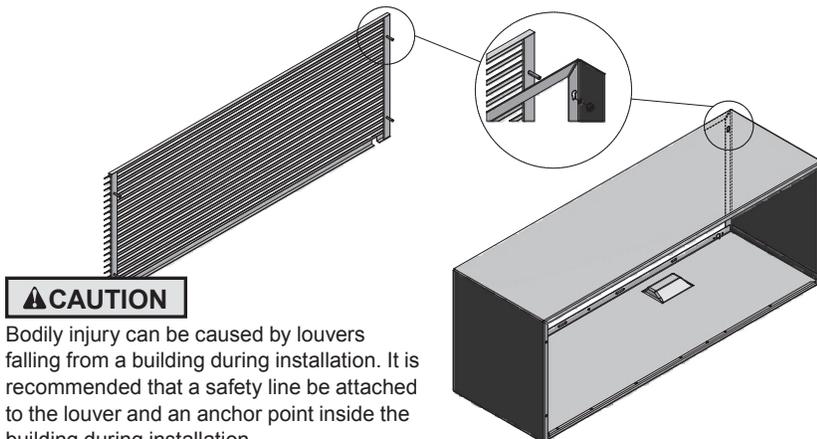
Place the drain tube through the gasket and the mounting plate with the flange toward the wall sleeve.

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.



FRP012

Architectural Louver Installation (PXAA)



CAUTION

Bodily injury can be caused by louvers falling from a building during installation. It is recommended that a safety line be attached to the louver and an anchor point inside the building during installation.

INSTALLATION

1. Screw a threaded metal stud into each of the holes at the four corners of the louver.
2. From inside the building, grasp the louver at the vertical supports and maneuver the louver through the wall sleeve. Pull towards you until the threaded studs are inserted into the four holes of the wall sleeve.
3. While holding the louver with one hand, start washers and nuts on each of the four studs. Tighten the nuts securely.

HVAC Engineering Specifications

Digital Packaged Terminal Air Conditioners & Heat Pumps

Cooling: 7000 – 14500 Btu

Heating: 5800 – 13300 Btu (Heat Pump)
6800 – 17000 Btu (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 run-tested 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 1/4". The unit shall be designed so that room intrusion may be as little as 7 1/2". Installations in walls deeper than 13 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 1/2" 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 1/2 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 two 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 1/2" wide with the controls no deeper than 1 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', '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 two years on all parts and labor and 5 years on the sealed system, parts and labor, including compressor, indoor and outdoor coils and refrigerant tubing.

Accessories

New Construction Accessories																							
<p>PDXWSA</p> <p>PDXWSEXT18</p> <p>PDXWSEXT24</p> <p>PDXWSEXT</p>	<p>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.</p> <p>DEEP WALL SLEEVE For walls up to 17 1/2" deep.</p> <p>DEEP WALL SLEEVE For walls up to 23 1/2" deep.</p> <p>CUSTOM DEEP WALL SLEEVE One piece extended wall sleeve for walls from 13 1/4" to 25 1/2" deep are available by special order.</p>	<p>PDXWS</p>   <p>Deep wall sleeve PDXWSEXT18 shown with weather panel</p>																					
PXSE	<p>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.</p>																						
PXGA	<p>GRILLE Standard, stamped aluminium, anodized to resist chalking and oxidation.</p>																						
<p>PXAA</p> <p>PXBG</p> <p>PXSC</p>	<p>ARCHITECTURAL GRILLES Consist of heavy-gauge 6063-T5 aluminum alloy: 42" W x 16" H x 1.125" D</p> <p>PXAA - Clear, extruded aluminum PXBG - Beige acrylic enamel PXSC - Also available in custom colors.</p>	<p>PXGA</p>  <p>PXAA</p> 																					
PXDR10	<p>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.</p>																						
POWER CORDS	<table border="1"> <thead> <tr> <th></th> <th></th> <th>Plug Face</th> </tr> </thead> <tbody> <tr> <td>PXPC23015A</td> <td>LCDI 230V 15A Cord - 2.5 kW</td> <td>6-15</td> </tr> <tr> <td>PXPC23020A</td> <td>LCDI 230V 20A Cord - 3.5 kW</td> <td>6-20</td> </tr> <tr> <td>PXPC23030</td> <td>LCDI 230V 30A Cord - 5.0 kW</td> <td>6-30</td> </tr> <tr> <td>PXPC26515A</td> <td>Non-LCDI 265V 15A Cord - 2.5 kW</td> <td>7-15</td> </tr> <tr> <td>PXPC26520A</td> <td>Non-LCDI 265V 20A Cord - 3.5 kW</td> <td>7-20</td> </tr> <tr> <td>PXPC26530</td> <td>Non-LCDI 265V 30A Cord - 5.0 kW</td> <td>7-30</td> </tr> </tbody> </table>			Plug Face	PXPC23015A	LCDI 230V 15A Cord - 2.5 kW	6-15	PXPC23020A	LCDI 230V 20A Cord - 3.5 kW	6-20	PXPC23030	LCDI 230V 30A Cord - 5.0 kW	6-30	PXPC26515A	Non-LCDI 265V 15A Cord - 2.5 kW	7-15	PXPC26520A	Non-LCDI 265V 20A Cord - 3.5 kW	7-20	PXPC26530	Non-LCDI 265V 30A Cord - 5.0 kW	7-30	
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PXPC26530	Non-LCDI 265V 30A Cord - 5.0 kW	7-30																					
PXCJA	<p>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.</p>																						
PXFTA	<p>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).</p>																						

Accessories

New Construction Accessories												
<p>PDXDAA</p>	<p>LATERAL DUCT ADAPTER Attaches to the Friedrich PTAC/PTHP unit to direct up to 35% of the total airflow to a second room. The unit-mounted duct plenum features a front-mounted aluminum grille that has two positions to provide the most optimal air direction. The air may be directed to either the left or the right of the unit through the supplied 3.5 H" x 7 W" x 47" L plenum. Plenum may be cut to length by the installer. Kit includes duct plenum, front grille, 47" duct extension, duct discharge grille, duct end cap and all necessary mounting hardware.</p>											
<p>PDXDEA</p>	<p>LATERAL DUCT EXTENSION Additional 3.5 H" x 7" W x 47" L plenum for use with the LATERAL DUCT ADAPTER. A maximum of 3 duct extensions total may be used. Note: Ducted airflow is reduced as duct length is increased.</p>											
<p>PXSBA</p>	<p>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.</p>											
<p>PXSB</p>	<p>ELECTRICAL SUBBASE Provides unit support for walls less than six inches thick. Includes leveling legs, side filler panels, mounting brackets, a plug-in receptacle and field-wiring access. The subbase also includes electrical knockouts for a power disconnect switch or circuit breaker.</p> <table border="1" data-bbox="332 903 763 1029"> <tr> <td>PXSB23020</td> <td>Electrical Subbase - 230V 20A</td> </tr> <tr> <td>PXSB23030</td> <td>Electrical Subbase - 230V 30A</td> </tr> <tr> <td>PXSB26515</td> <td>Electrical Subbase - 265V 15A</td> </tr> <tr> <td>PXSB26520</td> <td>Electrical Subbase - 265V 20A</td> </tr> <tr> <td>PXSB26530</td> <td>Electrical Subbase - 265V 30A</td> </tr> </table>	PXSB23020	Electrical Subbase - 230V 20A	PXSB23030	Electrical Subbase - 230V 30A	PXSB26515	Electrical Subbase - 265V 15A	PXSB26520	Electrical Subbase - 265V 20A	PXSB26530	Electrical Subbase - 265V 30A	
PXSB23020	Electrical Subbase - 230V 20A											
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PXSB26520	Electrical Subbase - 265V 20A											
PXSB26530	Electrical Subbase - 265V 30A											
<p>RT6</p>	<p>DIGITAL REMOTE 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.</p>											
<p>WRT1</p>	<p>WIRELESS DIGITAL REMOTE 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 wireless and is battery powered. Features backlit display and multiple configuration modes. For use on PD-series Friedrich PTACs and Vert-I-Paks.</p>											
<p>PDXRTA</p>	<p>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.</p>											
<p>EMRT1 EMWRT1</p>	<p>FRIEDRICHLINK® ENERGY MANAGEMENT THERMOSTAT Integrated occupancy sensor uses a combination of motion and thermal sensing technologies for accurate occupancy detection. Reliable occupancy detection allows saving energy when rooms are unoccupied. Energy saving presets eliminate the guesswork and make it easy to adjust the energy saving settings.</p> <p>EMRT1 - Wired thermostat with occupancy sensor. EMWRT1 - Wireless thermostat with occupancy sensor.</p>											
<p>EMOCT</p>	<p>Online connection kit.</p>											
<p>EMRAF</p>	<p>Remote access fee.</p>											

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Friedrich Air Conditioning Company
10001 Reunion Place, Suite 500
San Antonio, TX 78216
800.541.6645
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 - TWO YEAR (Twenty-four (24) 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 - THIRD 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.

(9-12)