

SPECIFICATIONS

7000-9000 BTU

Figure 201

			7k	9k	9r
Power Supply	Rated Voltage	V~	230/208	230/208	265
	Rated Frequency	Hz	60	60	60
	Phases		1	1	1
Cooling Capacity		Btu/h	7400/7200	9700/9400	9800
Heating Capacity		Btu/h	6000/5800	8500/8200	8600
Cooling Power Input		W	570/560	800/780	810
Heating Power Input		W	490/470	690/670	690
Cooling Power Current		A	2.4/2.6	3.6/3.9	3.1
Heating Power Current		A	2.1/2.3	3.1/3.2	2.6
Rated Input : Cooling		W	680	1070	1220
Rated Input : heating		W	570	930	920
Rated Input : Electric Heat		W	3500 /2860 2500/2040	5050/4130,3500 /2860,2500/2040	5050/3500/2500
Rated Current: Cooling		A	3.3	5.1	3.6
Rated Current : heating		A	2.7	3.9	3.3
Rated Current : Electric Heat		A	15.2 / 13.8 10.9/9.8"	22.0/19.9,15 .2/ 13.8,10.9/9.8	19.1/13.3/9.5
EER		(Btu/)/W	13.0/13.0	12.1/12.1	12.1
COP		(Btu/)/W	12.3/12.3	12.3/12.3	12.5
Air Flow Volume		CFM	312/282	330/282	330/282
Dehumidifying Volume		Pint/h	1.69	2.11	2.11
Permissible Excessive Operating Pressure for the Discharge Side		MPa	5.8	5.8	5.8
Permissible Excessive Operating Pressure for the Suction Side		MPa	1.9	1.9	1.9
Maximum Allowable Pressure		MPa	5.8	5.8	5.8
Metering Device			Capillary	Capillary	Capillary
Dimension (WxHxD)		inch	42 3/32 × 15 63/64 × 21 1/2	42 3/32 × 15 63/64 × 21 1/2	42 3/32 × 15 63/64 × 21 1/2
Dimension of Carton Box (LxWxH)		inch	45 3/64 × 25 19/32 × 17 7/8	45 3/64 × 25 19/32 × 17 7/8	45 3/64 × 25 19/32 × 17 7/8
Dimension of Package (LxWxH)		inch	45 5/32 × 25 45/64 × 18 15/32	45 5/32 × 25 45/64 × 18 15/32	45 5/32 × 25 45/64 × 18 15/32
Net Weight		lb	112.5	114.7	114.7
Gross Weight		lb	134.5	134.5	134.5
Refrigerant		/	R-32	R-32	R-32

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Figure 202

INDOOR SIDE	Electric Heater Power Input	W	3450/2830, 2450/2010	5000/4090,3450/ 2830,2450/2010	5000/3450/2450
	Electric Heater Power Current	A	15.0/13.6, 10.7/9.7	21.8/19.7,15.0/ 13.6,10.7/9.7	18.9/13.1/9.3
	Fan Type		Cross-flow	Cross-flow	Cross-flow
	Diameter Length(DXL)	mm	121×706	121×706	121×706
	Cooling Speed	r/min	1000/890	1060/940	1060/940
	Heating Speed	r/min	1000/890	1060/940	1060/940
	Fan Motor Power Output	W	18	21	21
	Fan Motor RLA	A	0.1	0.18	0.18
	Fan Motor Capacitor	μF	1	1.5	1.5
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	7	7	7
	Evaporator Row-fin Gap	mm	3-1.4	3-1.4	3-1.4
	Evaporator Coil Length (LxDxW)"	mm	698 × 242 × 38.1	699 × 248 × 38.1	699 × 248 × 38.1
	Fuse Current	A	3.15	3.15	3.15
	Set Temperature Range	°F	61~86	61~86	61~86
	Sound Pressure Level	dB (A)	50/46	50/46	50/46
	Sound Power Level	dB (A)	60/56	60/56	60/56
Outdoor Side	Compressor Model		QXF-A056rD130	QXF-A078rD130	QXF-A078yD130
	Compressor Oil		FW68DA or equivalent	68SL or equivalent	68SL or equivalent
	Compressor Type		Rotary	Rotary	Rotary
	Compressor LRA	A	13	17	15
	Compressor RLA	A	2.16	3.1	3.4
	Compressor Overload Protector	--	495	689	682
	Fan Type	--	Axial-flow	Axial-flow	Axial-flow
	Fan Diameter	mm	349	349	349
	Fan Motor Speed	rpm	1340/1120	1340/1120	1340/1120
	Fan Motor Power Output	W	20	20	20
	Fan Motor RLA	A	0.21	0.3	0.3
	Fan Motor Capacitor	μF	2	2	1.5
	Outdoor Unit Air Flow Volume	CFM	471	471	471
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	7	7	7
	Condenser Rows-fin Gap	mm	3-1.3	3-1.3	3-1.3
	Condenser Coil Length (LxDxW)	mm	780 × 343 × 38.1	780 × 343 × 38.1	780×343×38.1
	Cooling Operation Ambient Temperature Range	°F	64.4~115.0	64.4~115.0	64.4~115.0
	Heating Operation Ambient Temperature Range	°F	-96.4	-96.4	-96.4
	Sound Pressure Level	dB (A)	62/58	62/58	62/58
	Sound Power Level	dB (A)	72/68	72/68	72/68

SPECIFICATIONS

12000-15000 BTU

Figure 203

			12K	12R	15K	15R
Power Supply	Rated Voltage	V~	230/208	230/208	265	265
	Rated Frequency	Hz	60	60	60	60
	Phases		1	1	1	1
Cooling Capacity	Btu/h		12100/11900	12000	14600/14200	14500
Heating Capacity	Btu/h		10900/10700	10700	13800/13300	13300
Cooling Power Input	W		1040/1000	1030	1400/1360	1390
Heating Power Input	W		940/900	920	1310/1250	1250
Cooling Power Current	A		4.6/4.9	4	6.0/6.5	5.3
Heating Power Current	A		4.1/4.3	3.5	5.6/5.9	4.7
Rated Input : Cooling	W		1270	1270	1890	1890
Rated Input : heating	W		1130	1100	1650	1650
Rated Input : Electric Heat	W		5050/ 4130 3500/ 2860 2500/2040	5050/3500/2500	5050/4130,3500/ 2860,2500/2040	5050/3500/2500
Rated Current: Cooling	A		6.2	4.8	8.2	7
Rated Current : heating	A		5.3	4.2	7.9	6.2
Rated Current : Electric Heat	A		22/19.9 15.2/13.8 10.9/9.8	19.1/13.9/9.5	22.0/19.9,15.2/ 13.8,10.9/9.8	19.1/13.3/9.5
EER	(Btu/)/W		11.6/11.8	11.6	10.4/10.4	10.4
COP	(Btu/)/W		11.6/11.8	11.6	10.6/10.6	10.6
Air Flow Volume	CFM		341/306	341/306	341/306	341/306
Dehumidifying Volume	Pint/h		2.75	2.75	3.17	3.17
Permissible Excessive Operating Pressure for the Discharge Side	MPa		5.8	5.8	5.8	5.8
Permissible Excessive Operating Pressure for the Suction Side	MPa		1.9	1.9	1.9	1.9
Maximum Allowable Pressure	MPa		5.8	5.8	5.8	5.8
Metering Device			Capillary	Capillary	Capillary	Capillary
Dimension (WxHxD)	inch		42 3/32 × 15 63/64 × 21 1/2	42 3/32 × 15 63/64 × 21 1/2	42 3/32 × 15 63/64 × 21 1/2	42 3/32 × 15 63/64 × 21 1/2
Dimension of Carton Box (LxWxH)	inch		45 3/64 × 25 19/32 × 17 7/8	45 3/64 × 25 19/32 × 17 7/8	45 3/64 × 25 19/32 × 17 7/8	45 3/64 × 25 19/32 × 17 7/8
Dimension of Package (LxWxH)	inch		45 5/32 × 25 45/64 × 18 15/32	45 5/32 × 25 45/64 × 18 15/32	45 5/32 × 25 45/64 × 18 15/32	45 5/32 × 25 45/64 × 18 15/32
Net Weight	lb		119.1	119.1	120.2	120.2
Gross Weight	lb		141.1	141.1	142.2	142.2
Refrigerant	/		R-32	R-32	R-32	R-32
Refrigerant Charge	oz		28.93	28.92	29.63	28.57

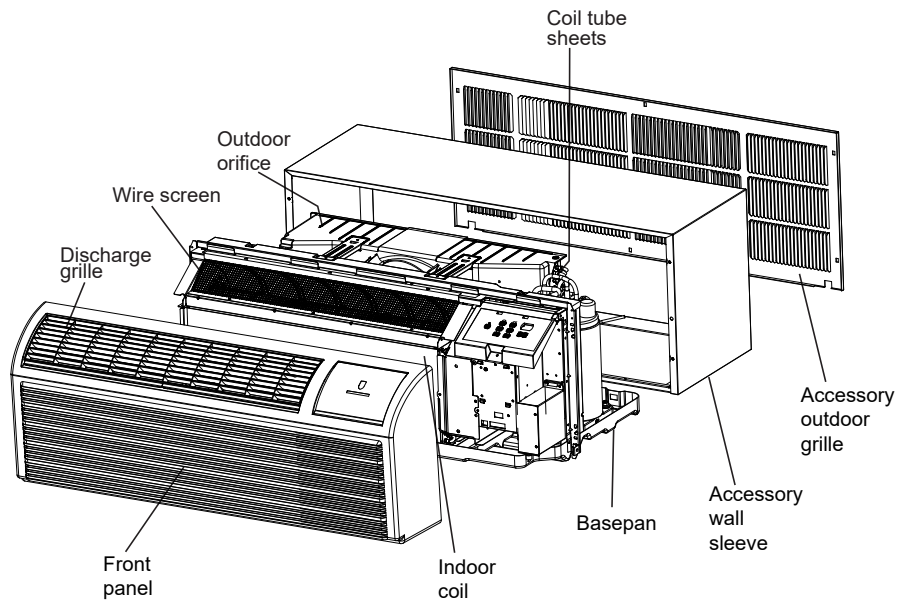
SPECIFICATIONS

12000-15000 BTU

Figure 204

INDOOR SIDE	Electric Heater Power Input	W	5000/4090,3450 /2830,2450/2010	5000/3450/2450	5000/4090,3450/ 2820,2450/2000	5000/3450/2450
	Electric Heater Power Current	A	21.8/19.7,15.0/ 13.6,10.7/9.7	18.9/13.1/9.3	21.8/19.7,15.0 /13.6,10.7/9.7	18.9/13.1/9.3
	Fan Type		Cross-flow	Cross-flow	Cross-flow	Cross-flow
	Diameter Length(DXL)	mm	121×706	121×706	121×706	121×706
	Cooling Speed	r/min	1130/970	1130/950	1130/970	1130/970
	Heating Speed	r/min	1130/970	1130/950	1130/970	1130/970
	Fan Motor Power Output	W	23	20	23	23
	Fan Motor RLA	A	0.2	0.2	0.2	0.2
	Fan Motor Capacitor	μF	1	1.5	1	1.5
	Evaporator Form		Aluminum Fin- copper Tube	Aluminum Fin- copper Tube	Aluminum Fin- copper Tube	Aluminum Fin- copper Tube
	Evaporator Pipe Diameter	mm	7	7	7	7
	Evaporator Row-fin Gap	mm	3-1.4	3-1.4	3-1.4	3-1.4
	Evaporator Coil Length (LxDxW)"	mm	698 × 242 × 38.1	698 × 242 × 38.1	698 × 242 × 38.1	698 × 242 × 38.1
	Fuse Current	A	3.15	3.15	3.15	3.15
	Set Temperature Range	°F	61~86	61~86	61~86	61~86
	Sound Pressure Level	dB (A)	53/50	53/50	53/50	53/50
	Sound Power Level	dB (A)	63/60	63/60	63/60	63/60
OUTDOOR SIDE	Compressor Trademark		LANDA	LANDA	LANDA	LANDA
	Compressor Oil		FW68DA or equivalent	FW68DA or equivalent	FW68DA or equivalent	FW68DA or equivalent
	Compressor Type		Rotary	Rotary	Rotary	Rotary
	Compressor LRA.	A	30	21	35.2	26
	Compressor RLA	A	4.5	3.3	5	6.4
	*Compressor Overload Protector	--	872	855	1180	1120
	Fan Type	--	Axial-flow	Axial-flow	Axial-flow	Axial-flow
	Fan Diameter	mm	349	349	349	349
	Fan Motor Speed	rpm	1550/1390	1550/1380	1550/1390	1550/1390
	Fan Motor Power Output	W	65	45	65	45
	Fan Motor RLA	A	0.52	0.4	0.52	0.4
	Fan Motor Capacitor	μF	2.5	2.5	2.5	2.5
	Outdoor Unit Air Flow Volume	CFM	565	565	588	588
	Condenser Form		Aluminum Fin- copper Tube	Aluminum Fin- copper Tube	Aluminum Fin- copper Tube	Aluminum Fin- copper Tube
	Condenser Pipe Diameter	mm	7	7	7	7
	Condenser Rows-fin Gap	mm	3-1.3	3-1.3	3-1.3	3-1.3
	Condenser Coil Length (LxDxW)	mm	780 × 343 × 38.1	780 × 343 × 38.1	780 × 343 × 38.1	780 × 343 × 38.1
	Cooling Operation Ambient Temperature Range	°F	64.4~115.0	64.4~115.0	64.4~115.0	55~83
	Heating Operation Ambient Temperature Range	°F	-96.4	-96.4	-96.4	-96.4
	Sound Pressure Level	dB (A)	66/63	66/63	66/63	66/63
	Sound Power Level	dB (A)	76/73	76/73	76/73	76/73

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PDXWS Wall Sleeve Dimensions
16" H x 42" x W x 13^{3/4}" D

Front Cover Dimensions
16" H x 42" x W x 7^{3/4}" D

Cut-out Dimensions
16^{1/4} x 42^{1/4}

Figure 202 (Typical Unit Components and Dimensions)


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Electrical Data

Make sure the wiring is adequate for your unit.

If you have fuses, they should be of the time delay type. Before you install or relocate this unit, be sure that the amperage rating of the circuit breaker or time delay fuse does not exceed the amp rating listed in Figure E.1.1. Must be installed on a single circuit with designated receptacle.

⚠ WARNING



Electrical Shock Hazard

Make sure your electrical receptacle has the same configuration as your air conditioner's plug. If different, consult a Licensed Electrician.

Do not use plug adapters.
Do not use an extension cord.
Do not remove ground prong.

Always plug into a grounded 3 prong outlet.
Failure to follow these instructions can result in death, fire, or electrical shock.

DO NOT use an extension cord.

The cord provided will carry the proper amount of electrical power to the unit; an extension cord may not.

Make sure that the receptacle is compatible with the air conditioner cord

FUSE/CIRCUIT BREAKER	Use ONLY type and size fuse or HVAC/R circuit breaker indicated on unit's rating plate. Proper current protection to the unit is the responsibility of the owner. Specification of fuse on the main board: T3.15AH250V(unit: 208/230V) T3.15A 350VAC(unit: 265V)
GROUNDING	Unit MUST be grounded from branch circuit through service cord to unit, or through separate ground wire provided on permanently connected units. Be sure that branch circuit or general purpose outlet is grounded. The field supplied outlet must match plug on service cord and be within reach of service cord. Refer to Table 1 for proper receptacle and fuse type. Do NOT alter the service cord or plug. Do NOT use an extension cord.
RECEPTACLE	The field supplied outlet must match plug on service cord and be within reach of service cord. Refer to Table 1 for proper receptacle and fuse type. Do NOT alter the service cord or plug. Do NOT use an extension cord.

Table 1 Receptacles and Fuse Types						
Voltage	230V			265V		
Amps	15	20	30	15	20	30
Heater Size	1.5/2.5kw	3.5kw	5kw	1.5/2.5kw	3.5kw	5kw
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

Figure 203 (Receptacles and Fuses)

Power Cord LCDI Test (208/230v)

All Friedrich 230/208V PTAC units are shipped from the factory with a Leakage Current Detection Interrupter (LCDI) equipped power cord. The LCDI device meets the UL and NEC requirements for cord connected air conditioners.

To test your power supply cord:

1. Plug power supply cord into a grounded 3 prong outlet.
2. Press RESET.
3. Press TEST (listen for click; Reset button trips and pops out).
4. Press and release RESET
 - a. Listen for click; Reset button latches and remains in.
 - b. Check that the green indicator light is on once reset.
 - c. The power supply cord is ready for operation.

NOTE: The LCDI device is not intended to be used as a switch.

Once plugged in, the unit will operate normally without the need to reset the LCDI device.

If the LCDI device fails to trip when tested, or if the power supply cord is damaged, it must be replaced with a new supply cord obtained from the product manufacturer, and must not be repaired.

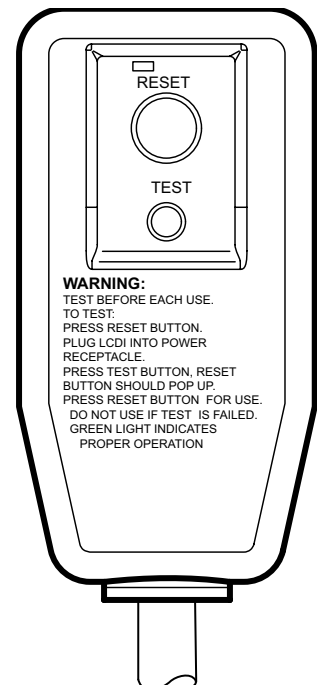


Figure 204 (LCDI)

SPECIFICATIONS

Electrical Data

MODEL	HEATER Kw	POWER CORD KIT	VOLTAGE	AMPERAGE	RECEPTACLE
PDH07K,PDH09K PDH12K,PDH15K	2.5	PXPC23015A	208/230	15	NEMA 6-15r
PDH07K,PDH09K PDH12K,PDH15K	3.5	PXPC23020A (STD)	208/230	20	NEMA 6-20r
PDH09K PDH12K,PDH15K	5.0	PXPC23030	208/230	30	NEMA 6-30r
PDH09R PDH12R PDH15R	2.5	PXPC26515	265	15	NEMA 7-15r
	3.5	PXPC26520A (STD)	265	20	NEMA 7-20r
	5.0	PXPC26530	265	30	NEMA 7-30r

Power Cord Installation (265v)

All 265V PTAC/PTHP units come with a factory installed non-LCDI power cord for use in a subbase. If the unit is to be hard-wired refer to the instructions below.

NOTE: It is recommended that the PXSB sub-base assembly, the PXCJA conduit kit (or equivalent) be installed on all hardwired units. If installing a flush-floor mounted unit, make sure the chassis can be removed from the sleeve for service and maintenance.

POWER CONNECTION OPTIONS

Appropriate power cord accessory kit is determined by the voltage, and amperage of the branch circuit. If the unit is to be hard wired, an accessory hard wire kit must be ordered.

IMPORTANT: For 265V units, if power cord accessory option is selected, the cord is only 18" long and must plug into the accessory electrical 265V subbase. Be sure that your outlet matches the appropriate blade configuration of the plug and that it is within reach of the service cord.

Electrical Wiring

All wiring, including installation of the receptacle, must be in accordance with the NEC and local codes, ordinances and regulations. National codes require the use of an arc fault or leakage current detection device on all 208/230V power cords. Be sure to select the correct cord for your installation.

Wire Size

Install a single branch circuit. All wiring must comply with local and national codes. All units are designed to operate off ONE single branch circuits only.

NOTE: Use copper conductors only. Prepare the 265V (or 230V) power cord for connection to the chassis' power cord connector by cutting the cord to the appropriate length.

Grounding

For safety and protection, the unit is grounded through the service cord plug or through separate ground wire provided on hard wired units. Be sure that the branch circuit or general purpose outlet is grounded.

VOLTAGE SUPPLY

Check voltage supply at outlet. For satisfactory results, the voltage range must always be within the ranges found on the data information plate.

Cord-connected Units

The 250V- field supplied outlet must match the plug for the standard 208/ 230V- units and be within reach of the service cord. The standard cord-connected 265V- units require an accessory electrical subbase for operation. Refer to Figure 203 for proper receptacle and fuse type.

Power Cord Protection

The power cord for 230/ 208V units provide power cord fire protection. Unit power automatically disconnects when unsafe conditions are detected. Power to the unit can be restored by pressing the reset button on plug head.

Upon completion of unit installation for 230/ 208V models, an operational check should be performed using the TEST/RESET buttons on the plug head.

NOTE: The 265V models do not incorporate this feature as they require use of the electrical subbase accessory To install the line voltage power leads and conduit to chassis, refer to the Installation and Operation Manual.

⚠ WARNING



Electrical Shock Hazard

Make sure your electrical receptacle has the same configuration as your air conditioner's plug. If different, consult a Licensed Electrician.

Do not use plug adapters.
Do not use an extension cord.
Do not remove ground prong.

Always plug into a grounded 3 prong outlet.
Failure to follow these instructions can result in death, fire, or electrical shock.