

Magic-Pak® Thru-The-Wall Units

Net Cooling - 5.3 to 7.0 kW (18 000 to 23 800 Btuh)

Net Heating 5.4 to 6.8 kW (18 400 to 23 200 Btuh)

Electric Heat - 4.8 to 14.4 kW (16 400 to 49 200)

Bulletin No. 490084

August 1999

FEATURES

Applications

- Completely self-contained.
- Ideal for apartments, condominiums and hotels for individual control of units.
- No outside heat pump unit, no external refrigerant lines no separate indoor coil.
- Slide out cooling chassis.
- Pre-wired and pre-charged.

Completely Tested

- Each unit is factory run tested to ensure proper operation.

Unit Cabinet

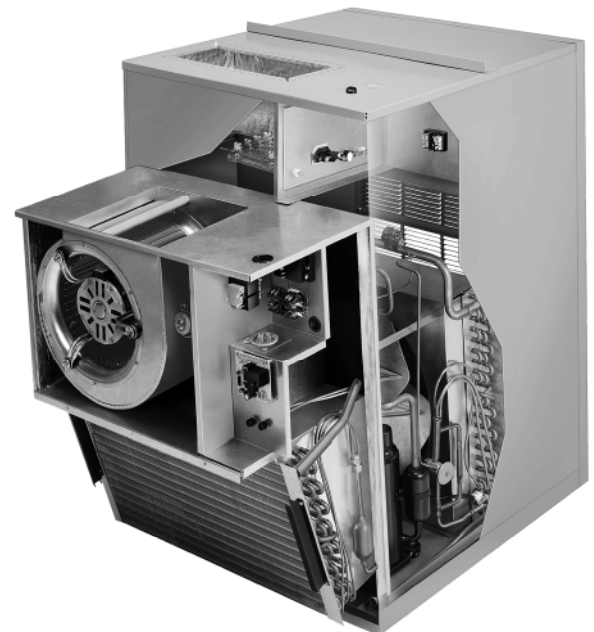
- Baked-on powder paint finish provides rust and corrosion protection.
- Mounts flush with any wall.

Compressor

- High efficiency scroll or rotary compressor.
- Designed for dependable efficiency with minimum operating cost.
- Suction cooled and overload protected with internal pressure relief.
- Hermetically sealed with built-in protection from excessive current and temperatures.

Direct Drive Blower

- Units are equipped with quiet multi-speed direct drive blower.
- Each blower assembly is statically and dynamically balanced.
- Multiple-speed motor is resiliently mounted.
- See blower performance table.



Unit Showing Slide-Out Heat Pump/Blower Section

Supplemental Electric Heat

- Factory installed internal to unit cabinet with controls installed and wired.
- Available in 5, 10 and 15 kW sizes.
- Helix wound nichrome heating elements exposed directly in air stream resulting in instant heat transfer, low element temperatures and long service life.
- Each element equipped with limit control with fixed temperature off setting and automatic reset.

Controls

- Standard trade available components.
- Color coded wiring for easy service.

Copper Tube/Enhanced Fin Coil

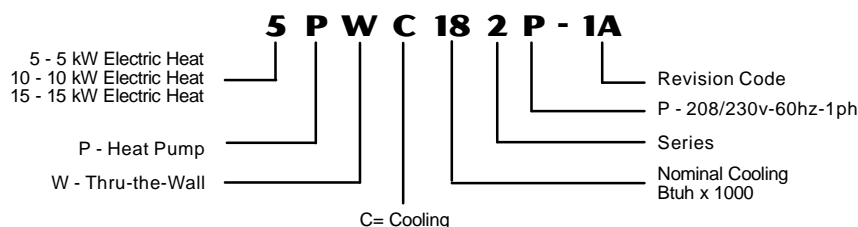
- Ripple-edged aluminum fins.
- Copper tube construction.
- Coil is factory tested under high pressure to insure leakproof construction.

OPTIONAL ACCESSORIES

Wall Sleeve (40L33)

- Use for roughing in opening for units.
- Unit cabinet mounts in the wall sleeve for ease of installation.

MODEL NUMBER IDENTIFICATION



SPECIFICATIONS

Model Number			5PWC182	10PWC182	5PWC242	10PWC242	15PWC242	
Cooling Data	kW (Btuh)		5.27 (18 000)		6.97 (23 800)			
	EER		8.85		9.25			
	Sensible/Total		.72		.74			
Heating Data	at 8°C (47°F)	kW (Btuh)		5.39 (18 400)		6.79 (23 200)		
		C.O.P. (Performance of coefficient)		3.00		3.10		
	at -8°C (17°F)	kW (Btuh)		3.51 (12 000)		4.22 (14 400)		
		C.O.P. (Performance of coefficient)		2.20		2.10		
Outdoor Coil Fan	Diameter - mm (in.)		457 (18)					
	Motor output - W (hp)		186 (1/4)					
	Rev/Min		1075					
Indoor Blower	Blower wheel nominal diameter x width - mm (in.)		254 x 203 (10 x 8)					
	Nominal motor output - W (hp)		186 (1/4)					
	Voltage & phase		208/230v-1ph					
Refrigerant charge furnished — kg (oz.) HCFC-22			2.13 (4 lbs. 11 oz.)		1.98 (4 lbs. 6 oz.)			
Shipping weight — kg (lbs.) 1 package			159 (350)		163 (360)			
Electrical Data	Line voltage and Phase - 60 hz		208/230 - 1					
	Compressor	Rated load amps		8.4		11.6		
		Locked rotor amps		45		62.5		
	Outdoor Coil Fan Motor - Rated load amps		1.8					
	Electric Heater Nominal kW @ 240v		4.8	9.6	4.8	9.6	14.4	
	Minimum Circuit Ampacity	Circuit 1	208v	36	14	40	18	40
			230v	39	14	43	18	43
		Circuit 2	208v	---	50	---	50	50
			230v	---	43.3	---	43.3	43.3
	Maximum Fuse/HACR Breaker	Circuit 1	208v	40	20	50	30	50
			230v	40	20	50	30	50
Circuit 2		208v	---	50	---	50	50	
		230v	---	50	---	50	50	
OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA								
Wall Sleeve			CA-239 (40L33)					

NOTE — Refer to local electrical codes to determine wire, fuse and disconnect size requirements.

BLOWER PERFORMANCE

Model No.	Blower Speed	L/s (cfm) at external static pressure with filter - Pa (in. wc)					
		25 (0.1)	50 (0.2)	75 (0.3)	100 (0.4)	125 (0.5)	150 (0.6)
PWC182	High	470 (995)	453 (960)	429 (910)	413 (875)	392 (830)	363 (770)
	Medium	354 (750)	349 (740)	345 (730)	330 (700)	314 (665)	297 (630)
	Low	278 (590)	278 (590)	271 (575)	264 (560)	248 (525)	224 (475)
PWC242	High	470 (995)	453 (960)	429 (910)	413 (875)	392 (830)	363 (770)
	Medium	354 (750)	349 (740)	345 (730)	330 (700)	314 (665)	297 (630)
	Low	278 (590)	278 (590)	271 (575)	264 (560)	248 (525)	224 (475)

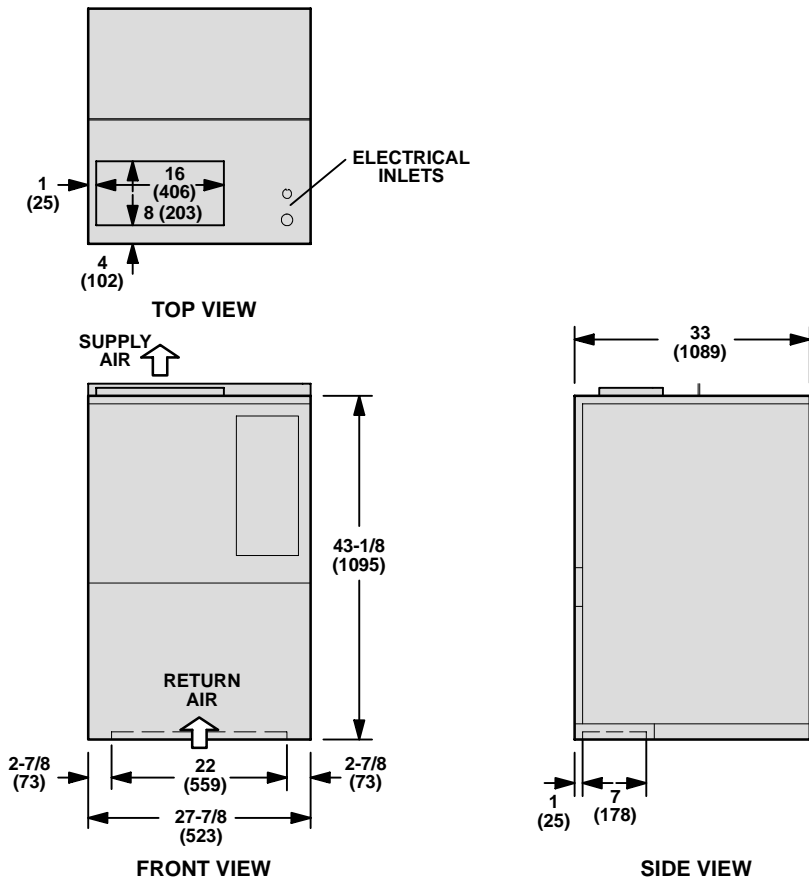
COOLING PERFORMANCE EXTENDED RATINGS

Model No.	Indoor Temperature °C (°F)		Outdoor Temperature - Dry Bulb/Wet Bulb °C (°F)																													
	Dry Bulb	Wet Bulb	18 (65)						28 (82)						35 (95)						41 (105)						46 (115)					
			Total Cooling Capacity		Compressor Motor kW Input	Sensible to Total Ratio (S/T)	Total Cooling Capacity		Compressor Motor kW Input	Sensible to Total Ratio (S/T)	Total Cooling Capacity		Compressor Motor kW Input	Sensible to Total Ratio (S/T)	Total Cooling Capacity		Compressor Motor kW Input	Sensible to Total Ratio (S/T)	Total Cooling Capacity		Compressor Motor kW Input	Sensible to Total Ratio (S/T)										
			kW	Btuh			kW	Btuh			kW	Btuh			kW	Btuh			kW	Btuh			kW	Btuh	kW	Btuh						
PWC182	29 (85)	22 (72)	6.7	22 900	1.8	.61	6.1	21 000	2.0	.66	5.7	19 400	2.1	.69	5.4	18 300	2.3	.67	5.0	17 100	2.5	.63										
	27 (80)	19 (67)	6.2	21 200	1.7	.67	5.7	19 400	1.9	.69	5.3	18 000	2.0	.72	4.9	16 900	2.2	.74	4.6	15 800	2.4	.76										
	24 (75)	17 (62)	5.7	19 600	1.6	.75	5.3	18 000	1.8	.80	4.9	16 700	1.9	.83	4.6	15 600	2.1	.87	4.3	14 600	2.3	.90										
PWC242	29 (85)	22 (72)	8.8	30 200	2.2	.63	8.1	27 600	2.4	.68	7.5	25 700	2.7	.71	7.1	24 200	2.9	.68	6.6	22 700	3.1	.65										
	27 (80)	19 (67)	8.2	28 000	2.1	.69	7.5	25 600	2.3	.71	7.0	23 800	2.6	.74	6.6	22 400	2.8	.75	6.1	21 000	3.0	.78										
	24 (75)	17 (62)	7.6	25 900	2.0	.77	6.9	23 700	2.2	.82	6.4	22 000	2.5	.85	6.1	20 700	2.7	.88	5.7	19 400	2.9	.91										

HEATING PERFORMANCE EXTENDED RATINGS

Model No.	Indoor Temperature Dry Bulb °C (°F)	Outdoor Temperature - Dry Bulb/Wet Bulb °C (°F)																			
		-18/-18 (0/0)				-8/-9 (17/15)				2/1 (35/33)				8/6 (47/43)				17/13 (62/56)			
		Total Heating Capacity		Compressor Motor kW Input	Total Heating Capacity		Compressor Motor kW Input	Total Heating Capacity		Compressor Motor kW Input	Total Heating Capacity		Compressor Motor kW Input	Total Heating Capacity		Compressor Motor kW Input					
		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh						
PWC182	21 (70)	2.46	8 400	1.5	3.51	12 000	1.6	1.7	14 500	1.7	5.39	18 400	1.8	6.32	21 600	1.9					
PWC242		2.75	9 400	1.9	4.22	14 400	2	2.1	19 400	2.1	6.79	23 200	2.2	8.08	27 600	2.3					

DIMENSIONS – INCHES (MM)



ACCESSORY DIMENSIONS – INCHES (MM)

