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Group: PT

Type: PDAN 009

Date: October 2009

Applied Packaged Terminal Air Conditioner with Top-Mounted Hydronic Heat 16" x 42" Model PDAN Flat Top Unit – Size 009 with R-410A Refrigerant

General Specifications

Heating/Cooling Chassis – Complete air cooled refrigeration system with R-410A refrigerant, a low noise tangential fan, and one outdoor propeller fan with slinger ring for efficient condensate removal, and concealed manual fresh air damper (auto damper available). Hydronic with intermediate electric heat is available to provide heat during seasonal shutdown of steam or hot water. Hydronic heat has a 24V valve signal. Power cord exits from under right side.

Digital Touchpad Control – The PDAN Digital Control is used to control the integral air conditioner and the heat source via a touchpad, optional remote 24-volt wall mounted thermostat or infra red (IR) remote control.

Wall Sleeve – Industry standard 16" x 42", made of galvanized, phosphatized, heavy-gauge steel. Coated with electrostatically applied, baked on, antique ivory urethane powder paint for maximum corrosion protection. A temporary weather panel is supplied to seal out the elements during construction.

Room Cabinet – Top discharge with stamped, one piece, reversible discharge grille. Control access door on right side. Enclosure completely encompasses controls and piping. 4" nominal height, black kickplate adjustable from 3" to 5". Front panel is removable without the use of tools. Color is Antique Ivory.

Hydronic Heat Section – Top mounted, 1-row hydronic heating coil rigidly snaps into wall sleeve for hot water or steam heating. 5/8" O. D. connections supplied for left-hand, right-hand, or opposite hand piping.

Valve – 24V Normally open or normally closed motorized valve hydronic heat only.

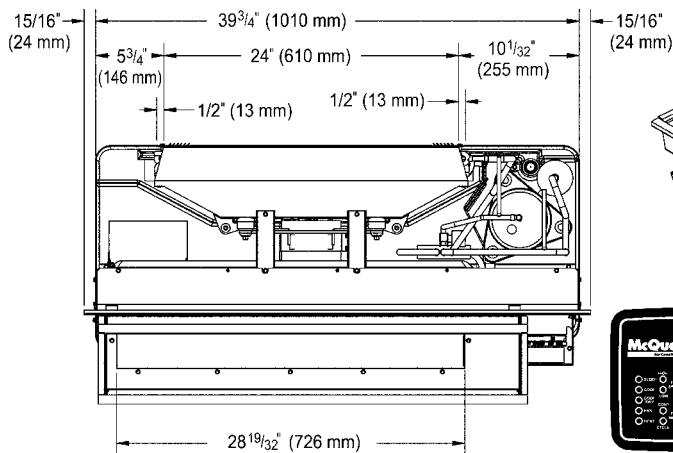
Electric Heat Section – Consists of low mass, quick response grid type electric heater(s) with high limit cut-out.

Louvers – Flush-stamped aluminum or architectural style, anodized aluminum.

Plug Cord Cover – All 265V electrical heat units.

Receptacle – Required for 265V electrical heat units & all hydronic units.

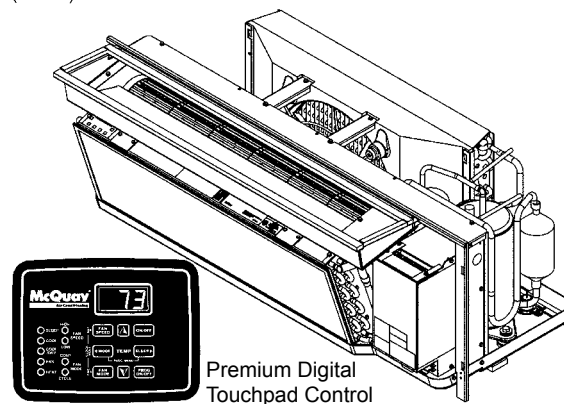
Power Cord – Standard power cord is 72" long and the optional cord is 18" long.



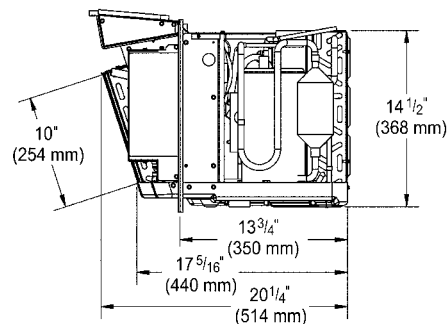
Top View



Front View



Premium Digital Touchpad Control



Right End View

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ARI Performance Data⁽⁶⁾

UNIT SIZE		009			
Cooling	Total Btuh(1)	9,100	9,100	9,100	
	Sensible Btuh(1)	7,500	7,500	7,500	
	EER	10.7	10.7	10.7	
	Volts	115	208/230	265	
	Full Load Amps(6)	9.33	5.45	4.04	
	Watts(1)	850	850	850	
Electric Heat(3)	Volts		208/230	265	
	2.5 kW	kW	2.2/2.7		
		Amps	10.7/11.9		
	3.5 kW	kW	3.1/3.8	3500	
		Amps	15.2/16.8	13.7	
	5.0 kW	kW			
Amps					
Hydronic Heat(4)	Valve & Fan Motor Amps	0.74	0.41	0.32	
	Hot Water (Btuh) Hi/Lo	18,400/15,600			
	Steam (Btuh) Hi/Lo	22,400/22,300			
Heat Pump Model					
Cooling	Qt, Btuh(2)	9,200	9,200	9,200	
	Qs, Btuh(2)	7,500	7,500	7,500	
	EER	10.3	10.3	10.3	
	Volts	115	208/230	265	
	Full Load Amps	9.33	5.45	4.04	
	Watts(1)	893	893	893	
Reverse Cycle Heat	Btuh(2)	8,500	8,500	8,500	
	COP	3.3	3.3	3.3	
	Volts	115	208/230	265	
	Full Load Amps	9.33	5.45	4.04	
	Watts(2)	755	755	755	
Electric Heater	Voltage		240V	265V	
Minimum Circuit Ampacity	2.5 Kw		15.51		
	3.5 Kw		21.92	17.07	
	5.0 Kw				
	Hydronic Heat	11.06	6.49	4.77	
Time Delay Fuses or Type HACR Circuit Breaker	2.5 Kw		15		
	3.5 Kw		20	15	
	5.0 Kw				
	Hydronic Heat	15	15	15	
NEMA Receptacle Type Required	2.5 Kw		6-15R		
	3.5 Kw		6-20R	7-20R	
	5.0 Kw				
	Hydronic Heat	5-15R	6-15R	7-20R	
Airflow CFM	Cool	High		Low	
		360		330	
	Heat	380		340	
		50		40	

Physical Data

Heating/Cooling Chassis & Front Panel

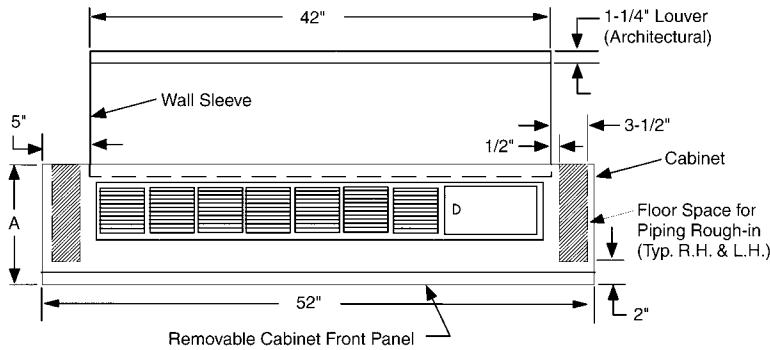
Size 009 140 lbs. (63 kg)
Cabinet/Wall Sleeve: 36 lbs. (16kg)

- (1) Based on ASHRAE and ARI test conditions of 95°F DB/75°F WB outside, 80°F DB/67°F WB inside.
 (2) Based on ASHRAE and ARI test conditions of 47°F DB outside, 70°F DB inside.
 (3) Electric Resistance Heat Watts x 3.41 = Btuh. Electric Heating Watts and Amps include Indoor Fan Motor.
 (4) Water – Based on ASHRAE and ARI test conditions of 200°F EWT, 180°F LWT, 70°F EAT with a 1.8 gpm flow rate.
 (5) 90 cfm with Power Vent Option.
 (6) Cooling Full Load Amps includes Compressor, IDF and ODF FLA's.

■ = Not Applicable

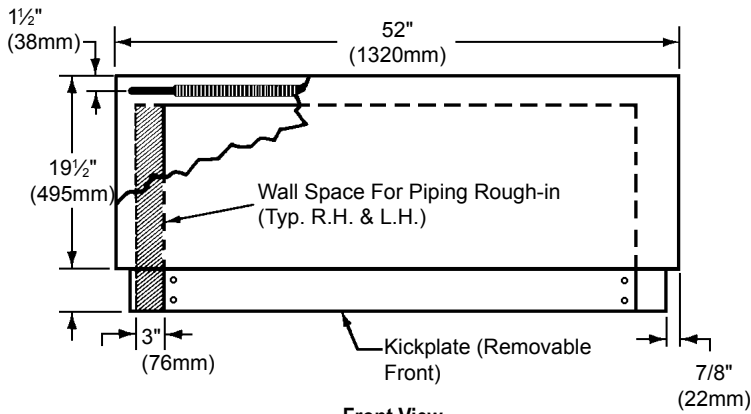
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Unit Dimensions – Wall Sleeve, Cabinet & Louver

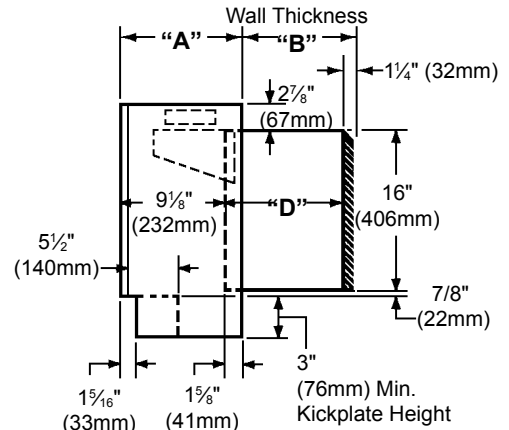


Top View

Note: Electrical rough-in should be located behind kickplate (removable front) and below wall sleeve.



Front View



Right End View

1/4" RECESS FOR ARCHITECTURAL LOUVER		
"A" – IN. (MM) ROOM CABINET	"D" – IN. (MM) WALL SLEEVE	"B" – IN. (MM) WALL THICKNESS
18 3/4 (476)	13 3/4 (349)	4 3/4–5 1/4 (121–146)
17 3/4 (451)	13 3/4 (349)	5 1/4–6 1/4 (146–171)
16 3/4 (425)	13 3/4 (349)	6 3/4–7 3/4 (171–197)
15 3/4 (400)	13 3/4 (349)	7 3/4–8 3/4 (197–222)
14 3/4 (375)	13 3/4 (349)	8 3/4–9 3/4 (222–248)
13 3/4 (349)	13 3/4 (349)	9 3/4–10 3/4 (248–273)
12 3/4 (324)	13 3/4 (349)	10 3/4–11 3/4 (273–298)
11 3/4 (298)	13 3/4 (349)	11 3/4–12 3/4 (298–324)
10 3/4 (273)	13 3/4 (349)	12 3/4–13 3/4 (324–349)
10 3/4 (273)	14 3/4 (375)	13 3/4–14 3/4 (349–375)
10 3/4 (273)	15 3/4 (400)	14 3/4–15 3/4 (375–400)
10 3/4 (273)	16 3/4 (425)	15 3/4–16 3/4 (400–425)
10 3/4 (273)	17 3/4 (451)	16 3/4–17 3/4 (425–451)

Standard Size Wall Sleeve

