



COOLING ONLY/HEAT PUMP

Nominal Capacities: 9000, 12000, 15000, 18000, 24000, 30000, 36000, 42000, and 48000 Btuh

PRODUCT DESCRIPTION

The FHP 09-30 and 36-48 is available in two cabinet sizes with nine capacities in cooling only or heat pump (depending on condenser match).

FHP units are equipped with a universal control that allows the unit to operate in either straight cool or heat pump mode. The unit is configured by changing dip switch settings prior to installation.

FHP units are shipped from the factory set in cooling only mode and will need to be reset for heat pump applications.

The FHP operates with very low sound levels and is available with several options. It is compatible with any EMI outdoor unit.

A unit mounted, electronic, digital control is standard and an optional infrared handheld remote control is available. Fresh air knockouts and anti-short cycle protection are standard features on all FHP units and additional options include supplemental electric or hydronic heat.

NOTE: Hydronic heat is available only in non-heat pump applications.

AIR HANDLER STANDARD FEATURES

▲ *Capacities/Efficiencies* - The FHP is a 10+ SEER air handler when paired with an EMI outdoor unit. Consult the factory for more information.

▲ Materials Of Construction:

- 94 HB polystyrene top (in designer white)
- Fabricated of 20 gauge galvaneal steel with powder Coat textured finish (in designer white)

FHP DUCTLESS SPLIT SYSTEM FLOOR MODEL AIR HANDLER

P/N# 240-3239 Rev. 1.3 [11/04]

- Anodized satin-finish aluminum Intake Grill with radius ends
- Aluminum discharge grill with structural supports
- Pitched galvanized steel condensate removal and drain pan with anticorrosion coating

Air Systems:

- Dynamically balanced, motor shaft driven centrifugal fans
- Permanent split capacitor (PSC) type motor with overload protection
- Galvaneal steel airstream surfaces with 1/4" fiberglass insulation
- Permanent electrostatic air filter is washable and user accessible

Coil:

- Staggered seamless copper tubing with enhanced aluminum fins
- Tested to 400 psig
- Cabinet knockouts for fresh air capability

▲ **Refrigeration Circuit** - The FHP is equipped with a Flo-Rater/piston expansion device. This allows the unit to operate in either cooling and heat pump modes. Refrigeration connections are male flare.

▲ Factory Installed Controls And Components:

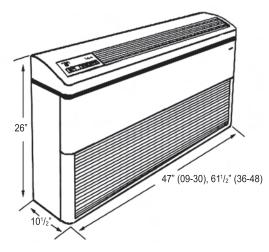
- Relays and connections for condensing unit and power supply
- ¾" LCD display screen
- Automatic/manual fan control
- · Indoor coil freeze protection
- Anti-short cycle compressor protection
- Fan purge (fan remains on for 60 seconds after heat/ cool signal is dropped for maximum efficiency)
- Low Volt transformer

SYSTEM OPTIONS

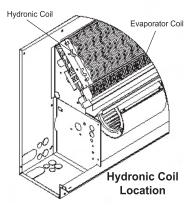
- ETL approved 3-7kw electric heat with safety controls
- Condensate pump
- Motorized fresh air damper (field installed, straight-cool only)
- Power-induced fresh air (field installed, straightcool only)
- Infrared hand held remote control
- Single-stage hydronic heat with sweat connections (not available in heat pump applications; must be factory installed)

FHP Dimensions and Specifications

NOTE: Due to EMI's ongoing development programs, design and specifications may change without notice.



FHP POWER ASSISTED OUTSIDE AIR					
Model#	Total CFM	Outside Air CFM			
9/12, 15	440	180			
18/24, 30	725	200			
36/42, 48	1200	400			



FHP DISCHARGE AIR SPEED AND THROW					
Model# CFM Low/High Coil FPM Throw/					
9/12,15	350/375	dry	800	12.4	
18/24,30	480/700	dry	1500	18.6	
36/42,48	1000/1200	dry	1500	19.0	

Outside Air CFM

50

75 160

FHP FRESH AIR SPECIFICATIONS*

Total CFM

440

725

1200

Model #

9/12, 15

18/24, 30

36/42, 48

* Open or Motorized Damper

Model #	Voltage/Hz/Ph	Fan FLA	Min. Ampacity*	Max. Fuse*
9/12A	115/60/1	1.5	1.9	15
9/12, 15	208-230/60/1	0.6	0.8	15
18/24	208-230/60/1	0.8	1.0	15
30	208-230/60/1	1.1	1.4	15
**36/42, 48	208-230/60/1	1.1/1.1	2.5	15

* 36 requires piston kit #550-121 (see pg 5

	FHP ELECTRICAL HEAT SPECIFICATIONS						
Model#	Voltage	ĸw	Heater Amps	Total Amps	Min. Circuit Amps	Max. Fuse Amps	
9/12, 15	230	3	13.1	13.7	17.1	20	
18/24	230	5	21.7	22.7	28.2	30	
30	230	5	21.7	22.8	28.6	30	
36/42, 48	230	7	30.4	32.6	40.6	45	

FHP HYDRONIC HEAT SPECIFICATIONS (Single-stage Heating only)					
Model#	EWT °F	Btuh	GPM	PD Ft. H ₂ O	
9/12, 15	180	24,300	2.0	3.4	
9/12, 13	140	18,400	2.0	3.4	
10/04 00	180	41,500	3.5	5.6	
18/24, 30	140	26,200	3.5	5.6	
36/42, 48	180	62,400	6.0	8.8	
	140	39,500	6.0	8.8	
NOTE: Not available with Heat Pump applications.					

FHP SOUND LEVELS			
Model# Dba			
9/12	48.6		
15	56.0		
18	57.2		
24, 30	60.6		
36/ 42, 48	63.2		

FHP SHIPPING WT.				
Model# LBS.				
9/12, 15	110			
18/24, 30	120			
36/42, 48	165			

FHP PIPING SPECIFICATIONS				
	Refrigeran	Drain Hose		
Model#	Liquid Suction			
	Flare*	Flare*		
9/12	1/4"	1/2"	1/2" I.D.	
15	1/4"	5/8"	1/2" I.D.	
18	3/8"	5/8"	5/8" I.D.	
24	3/8"	3/4"	5/8" I.D.	
30	3/8"	3/4"	5/8" I.D.	
36/42, 48	3/8"	3/4"	5/8" I.D.	
* Flare fittings	NOTE: Flare nuts not included.			



Made in Rome, New York, USA

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