

# **ADPF** Series

# **Dedicated Downflow Air Handler**

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Amana

# THREE-SPEED, 1½- TO 5-TON UNITS

#### **Standard Features**

- Suitable for use with refrigerants R-410A and R-22
- Check flowrater expansion device
- Direct-drive, multi-speed motor
- Transformer and blower time-delay on all units
- Dedicated downflow requires no modification in the field
- AHRI Certified
- ETL Listed

#### **Cabinet Features**

- Fully insulated, painted steel cabinet with attractive Architectural Gray finish
- Built-in coil has downflow drain pan with secondary drain connections
- Power supply entry at top; low-voltage entry on left side and top

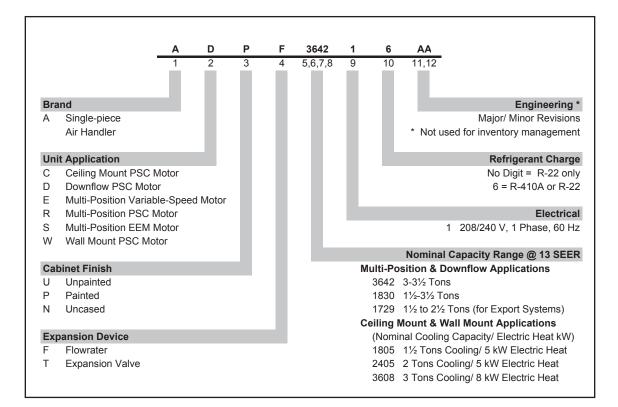
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\* Complete warranty details available from your local dealer or at <u>www.amana-hac.com</u>. To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec.

### Nomenclature



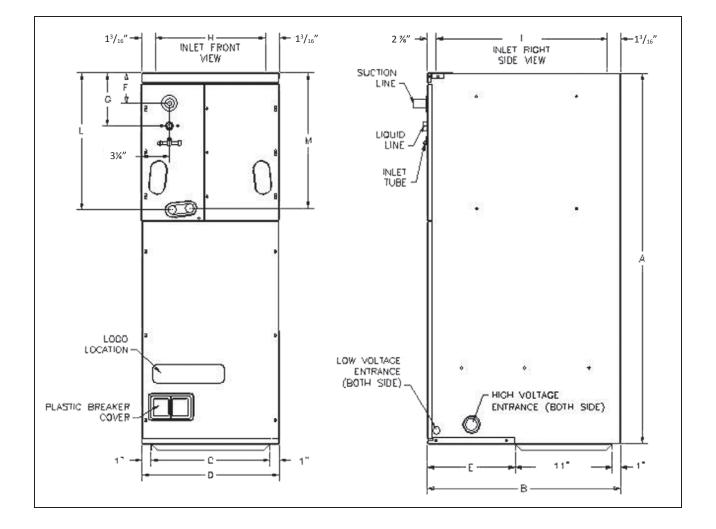


# **S**PECIFICATIONS

	ADPF 182416	ADPF 304216	ADPF 486016			
Nominal Ratings						
Cooling (BTU/h)	18,000-24,000	30,000-42,000	48,000-60,000			
Airflow Rate CFM (High/ Med/ Low)*	1,025/ 860/ 650	1,625/ 1,400/ 1,250	2,040/ 1,895/ 1,585			
BLOWER						
Diameter	9½"	105%"	10%"			
Width	6"	8″	10%"			
Coil Drain Connection FPT	3/4"	3/4"	3/4"			
Service Valve						
Liquid	3/8"	3/8"	3/8"			
Suction	3/4"	7/8″	7⁄8″			
ELECTRICAL DATA						
Voltage	208 - 230	208 - 230	208 - 230			
Min Circuit Ampacity	2.4/ 2.4	3.7/ 3.9	5.1/ 5.1			
Max. Overcurrent Device (amps)	15/ 15	15/ 15	15 /15			
Min./Max. VAC	197/ 253	197/ 253	197/ 253			
BLOWER MOTOR						
FLA	1.7	2.95	4.3			
HP	1/3	1/2	3⁄4			
Ship Weight (LBS)	96	131	151			

\* CFM @.3 static

## DIMENSIONS



Model	А	В	С	D	E	F	G	н	I	L	м
ADPF182416	42½"	22"	13½"	15½"	10"	3½"	6 <sup>1</sup> / <sub>16</sub> "	131⁄8″	17 <sup>15</sup> / <sub>16</sub> "	15½"	15⁵/ <sub>16</sub> ″
ADPF304216	53¼"	24"	20"	22"	12"	9¼"	11 <sup>13</sup> / <sub>16</sub> "	19%"	19 <sup>15</sup> / <sub>16</sub> "	21 <sup>7</sup> / <sub>16</sub> "	21¼"
ADPF486016	53¼"	24"	20″	22″	12″	9¼"	11 <sup>13</sup> / <sub>16</sub> "	19%″	19 <sup>15</sup> / <sub>16</sub> "	21 <sup>7</sup> / <sub>16</sub> "	21¼″

# **AIRFLOW DATA**

Monti	Corro.	CFM DELIVERED AGAINST EXTERNAL STATIC PRESSURE					
MODEL	Speed	0.1″	0.2″	0.3″	0.4"	0.5″	
	High	1,155	1,090	1,025	950	895	
ADPF182416	Med	940	890	860	815	755	
	Low	695	665	650	610	550	
	High	1,700	1,660	1,625	1,545	1,505	
ADPF304216	Med	1,500	1,440	1,400	1,350	1,345	
	Low	1,370	1,300	1,250	1,230	1,220	
	High	2,150	2,105	2,040	1,970	1,880	
ADPF486016	Med	1,960	1,935	1,895	1,825	1,750	
	Low	1,670	1,625	1,585	1,525	1,455	

Note: Assumes dry coil with filter in place; SCFM correction for wet coil = 4% (208V / 240V

# HEAT KIT MATCH-UPS

### HEAT KIT SELECTION

MODEL	ADPF 182416	ADPF 304216	ADPF 486016
HKR-03*	х	x	х
HKR-05*, HKR-05C*	Х	х	х
HKR-06*	х	x	x
HKR-08*, HKR-08C*	X <sup>1</sup>	х	х
HKR-10*, HKR-10C*	X <sup>1</sup>	х	х
HKR-15C*	X <sup>2</sup>	X <sup>3</sup>	х
HKR-20C*		X <sup>3</sup>	х
HKR-21C*		X <sup>3</sup>	х
^ HKR3-15*		X <sup>3</sup>	x
^ HKR3-20*		X <sup>3</sup>	x

\* Revision level that may or may not be designated

C Circuit breaker option

^ Heat kit requires three-phase power supply

Air handler must either be on medium or high speed
Air handler must be on high speed

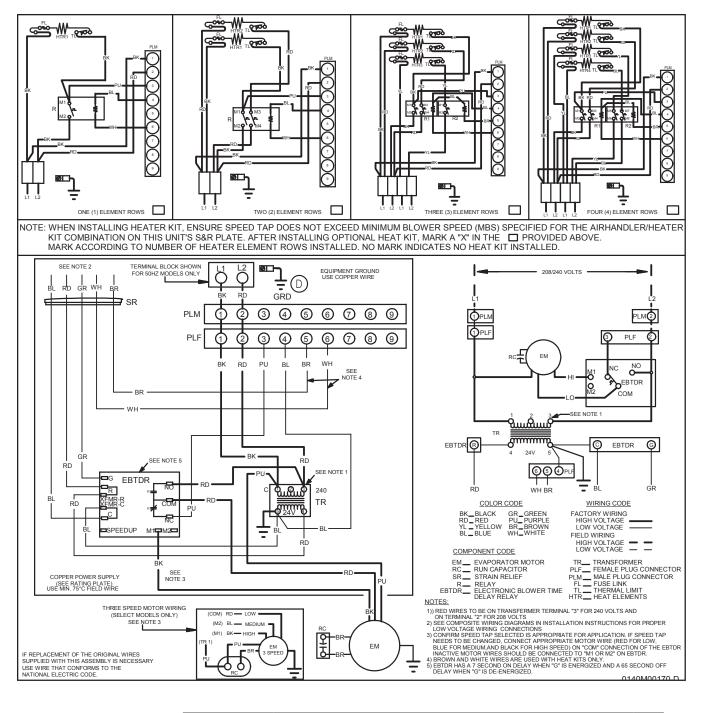
<sup>3</sup> Air handler must be on medium or high speed

#### SINGLE POINT KIT \*\*

MODEL	HKR-15C	HKR-20C	HKR-21C
SPW-01	х	х	х

\*\* Must be installed along with any of the above compatible heat kits. This kit will fit any ADPF air handler as long as a compatible heat kit is installed in the unit.

### WIRING DIAGRAM



Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

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**WARNING** High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

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## Accessories

### EXPANSION VALVE KITS FOR AIR CONDITIONING AND HEAT PUMP APPLICATIONS

#### FOR R-22 Systems

#### FOR R-410A Systems

VALVE

TX3N4

TX5N4

DESCRIPTION

Non-bleed

valve Non-bleed

valve

CAP USED WITH OUTDOOR UNITS BELOW

3 Ton > Air Conditioner & Heat Pump

3½ Ton < Air Conditioner & Heat Pump

VALVE	DESCRIPTION	USED WITH OUTDOOR UNITS BELOW
TX3N2	Non-bleed valve	3 Ton > Air Conditioner & Heat Pump
TX5N2	Non-bleed valve	3½ Ton < Air Conditioner & Heat Pump

#### FILTERS

ADPF	FILTER #	QTY REQUIRED
1824	FIL 18-32	1
3042	FIL 48-61	1
4860	FIL 48-61	1

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