

PRODUCT SPECIFICATIONS



THREE-SPEED

1½ TO 5 Ton

WITH PAINTED CABINET

MULTI-POSITION AIR HANDLER

The Amana® brand ARPF Multi-Position, Multi-Speed Air Handler is suitable for use with refrigerants R-410A and R-22. The ARPF features a check flowrater expansion device as well as direct-drive, multi-speed motor.

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
- Complies with the Factory-sealed Air Handling Credit with or without field-installed filter kits as listed in the 2001 Florida Building Code, Chapter 13, Section 610.2.A.2.1
- ARI Certified
- ETL Listed

Cabinet Features

- Fully insulated, painted steel cabinet with attractive Architectural Gray finish
- Built-in coil has horizontal, vertical, and downflow drain pans with secondary drain connections
- Built-in filter rack for 1" filter (filter not included)
- Power supply entry at top; low-voltage entry on top and both sides
- Factory-sealed to achieve 2% or less leakage rate with or without field-installed filter kits at 1.0" water gauge external duct static pressure

Accessories

- 3 kW to 21 kW electric heat kits available as field-installed options
- Permanent washable plastic air filters
- Coil Insulation Kits for downflow applications
- Horizontal drain pan insulation kits



Asure
EXTENDED SERVICE PLAN



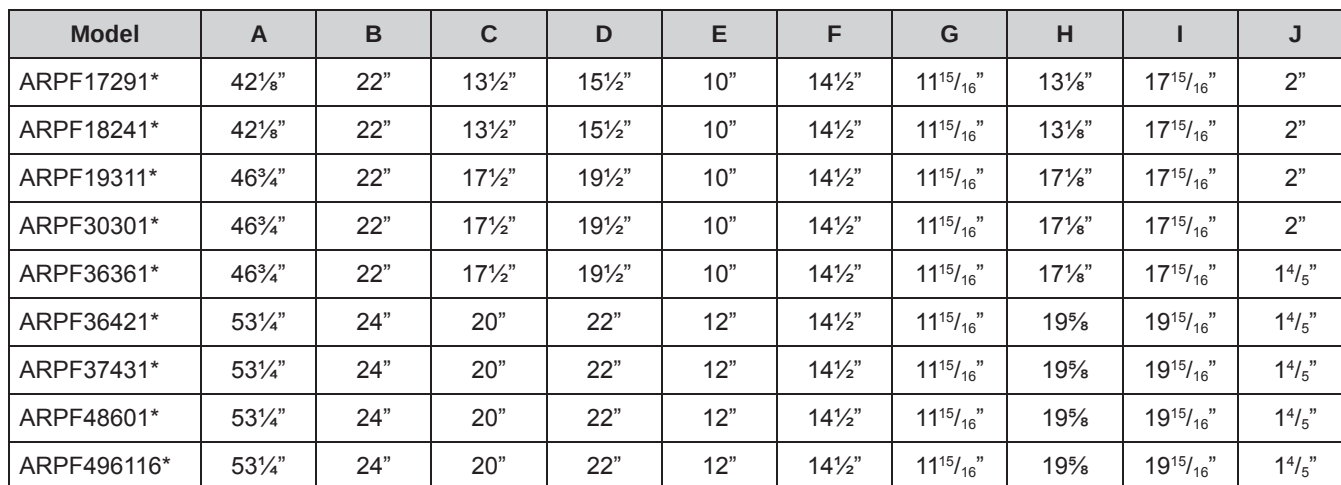
NOMENCLATURE

	A	R	P	F	3642	1	6	AA	
	1	2	3	4	5,6,7,8	9	10	11,12	
Brand									Engineering *
A Single-piece									Major/ Minor Revisions
Air Handler									* Not used for inventory management
Unit Application									Refrigerant Charge
C Ceiling Mount PSC Motor									No Digit = R-22 only
D Downflow PSC Motor									6 = R-410A or R-22
E Multi-Position Variable-Speed Motor									
R Multi-Position PSC Motor									
S Multi-Position EEM Motor									
W Wall Mount PSC Motor									
Cabinet Finish									Electrical
U Unpainted									1 208/240 V, 1 Phase, 60 Hz
P Painted									
N Uncased									
Expansion Device									Nominal Capacity Range @ 13 SEER
F Flowrater									Multi-Position & Downflow Applications
T Expansion Valve									1729 1½ to 2½ Tons (for Export Systems)
									1830 1½-3½ Tons
									3642 3-3½ Tons
									Ceiling Mount & Wall Mount Applications
									(Nominal Cooling Capacity/ Electric Heat kW)
									1805 1½ Tons Cooling/ 5 kW Electric Heat
									2405 2 Tons Cooling/ 5 kW Electric Heat
									3608 3 Tons Cooling/ 8 kW Electric Heat

SPECIFICATIONS

	ARPF 182416*	ARPF 193116*	ARPF 303016*	ARPF 363616*
Nominal Ratings				
Cooling (Btu/h)	18,000 - 24,000	18,000 - 30,000	30,000	36,000
CFM (High/ Med/ Low)	1,025/ 790/ 570	1,025/ 780/ 545	1,330/ 1,230/ 980	1,230/ 1,140/ 955
Blower				
Diameter	9½"	9½"	9½"	9½"
Width	6"	6"	8"	6"
Coil Drain Connect FPT	¾"	¾"	¾"	¾"
Service Valve				
Liquid Line	⅜"	⅜"	⅜"	⅜"
Suction Line	¾"	⅞"	¾"	¾"
Electrical Data				
Voltage	208/240	208/240	208/240	208/240
Min Circuit Ampacity	2.1/2.1	1.9/1.9	3.3/3.3	3.3/3.3
Max. Overcurrent Device (amps)	15 / 15	15 / 15	15 / 15	15/15
Min./ Max VAC	197/ 253	197/ 253	197/ 253	197/ 253
Blower Motor FLA/ HP	1.7/ ⅓	1.48/ ¼	2.64/ ⅓	2.64/ ⅓
Ship Weight (lbs)	120	155	144	164

	ARPF 364216*	ARPF 374316*	ARPF 486016*	ARPF 496116*
Nominal Ratings				
Cooling (Btu/h)	36,000 - 42,000	36,000 - 42,000	48,000 - 60,000	48,000 - 60,000
CFM (High/ Med/ Low)	1,645/ 1,440/ 1,275	1,925/ 1,550/ 1,345	1,985/ 1,875/ 1,650	1,915/ 1,795/ 1,585
Blower				
Diameter	10⅝"	11 15/16"	10⅝"	10⅝"
Width	8"	10 1/16"	10⅝"	10⅝"
Coil Drain Connect FPT	¾"	¾"	¾"	¾"
Service Valve				
Liquid Line	⅜"	⅜"	⅜"	⅜"
Suction Line	⅞"	⅞"	⅞"	⅞"
Electrical Data				
Voltage	208/240	208/240	208/240	208/240
Min Circuit Ampacity	3.7/3.7	4.2/4.2	5.4/5.4	5.4/5.4
Max. Overcurrent Device (amps)	15 / 15	15 / 15	15 / 15	15/15
Min./ Max VAC	197/ 253	197/ 253	197/ 253	197/ 253
Blower Motor FLA/ HP	2.95/ ½	3.39/ ½	4.3/ ¾	4.3/ ¾
Ship Weight (lbs)	173	195	192	192



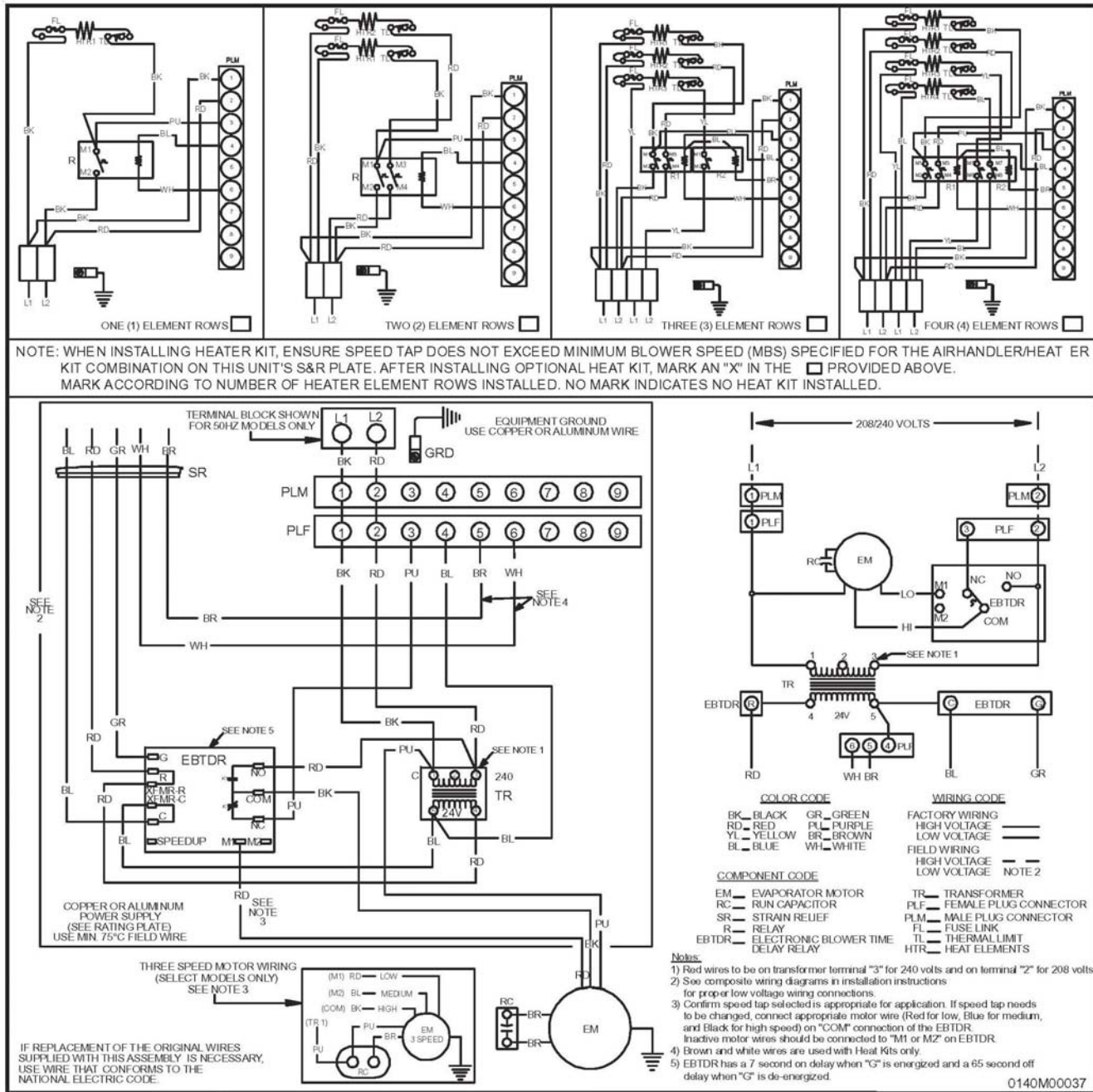
AIRFLOW DATA

Model	Motor Speed	CFM delivered against External Static Pressure				
		0.1"	0.2"	0.3"	0.4"	0.5"
ARPF182416*	High	1,155	1,090	1,025	950	895
	Med.	875	830	790	750	715
	Low	640	610	570	535	490
ARPF193116*	High	1,135	1,085	1,025	965	915
	Med.	860	825	780	750	680
	Low	600	570	545	500	465
ARPF303016*	High	1,455	1,385	1,330	1,205	1,090
	Med.	1,340	1,290	1,230	1,140	1,050
	Low	1,075	1,030	980	910	840
ARPF363616*	High	1,345	1,290	1,230	1,150	1,070
	Med	1,270	1,210	1,140	1,075	980
	Low	1,045	1,005	955	885	805
ARPF364216*	High	1,700	1,680	1,645	1,610	1,535
	Med.	1,500	1,480	1,440	1,380	1,325
	Low	1,345	1,320	1,275	1,230	1,195
ARPF374316*	High	2,065	2,000	1,925	1,860	1,780
	Med.	1,685	1,635	1,550	1,470	1,410
	Low	1,490	1,425	1,345	1,280	1,205
ARPF486016*	High	2,135	2,080	1,985	1,900	1,805
	Med.	1,975	1,935	1,875	1,775	1,675
	Low	1,715	1,670	1,650	1,590	1,530
ARPF496116*	High	2,075	2,000	1,915	1,875	1,715
	Med.	1,935	1,865	1,795	1,715	1,610
	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%

PRODUCT SPECIFICATIONS

WIRING DIAGRAM



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

ACCESSORIES

Heat Kits	ARPF 172916	ARPF 182416	ARPF 193116	ARPF 303016	ARPF 363616	ARPF 364216	ARPF 374316	ARPF 486016	ARPF 496116*
HKR-03*	X	X	X	X	X	X	X	X	X
HKR-05*, HKR-05C*	X	X	X	X	X	X	X	X	X
HKR-06*	X	X	X	X	X	X	X	X	X
HKR-08*, HKR-08C*	X ¹	X ¹	X ¹	X	X	X	X	X	X
HKR-10*, HKR-10C*	X ¹	X ¹	X ¹	X ¹	X	X	X	X	X
HKR-15C*	X ²	X ²	X ²	X ²	X ²	X ³	X ³	X	X
HKR-20C*				X ²		X ³	X ³	X	X
HKR-21C*				X ²		X ³	X ³	X	X
^ HKR3-15*				X ²	X ²	X ³	X ³	X	X
^ HKR3-20*				X ²		X ³	X ³	X	X

* Revision level that may or may not be designated

C Circuit breaker option

^ Heat kit requires three-phase power supply

¹ Air handler must either be on medium or high speed

² Air handler must be on high speed

³ For static pressure of 0.6 or higher, air handler must be on medium or high speed

EXPANSION VALVE KITS FOR AIR CONDITIONING AND HEAT PUMP APPLICATIONS

Kit Number	Description	Application	Refrigerant	Tonnage: Outdoor Unit
XVB18-36C	20% Bleed Valve	AC Only	R-22	1½ - 3 Ton
XVB42-60C	20% Bleed Valve	AC Only	R-22	3½ - 5 Ton
XV18-36C	Non-bleed Valve	AC Only	R-22	1½ - 3 Ton
XV42-60C	Non-bleed Valve	AC Only	R-22	3½ - 5 Ton
TX2N2	Non-bleed Valve	AC or HP	R-22	1½ - 2 Ton
TX3N2	Non-bleed Valve	AC or HP	R-22	2½ - 3 Ton
TX5N2	Non-bleed Valve	AC or HP	R-22	3½ - 5 Ton
TX2N4	Non-bleed Valve	AC or HP	R-410A	1½ - 2 Ton
TX3N4	Non-bleed Valve	AC or HP	R-410A	2½ - 3 Ton
TX5N4	Non-bleed Valve	AC or HP	R-410A	3½ - 5 Ton

DRAIN PAN INSULATION KITS

DOWNFLOW APPLICATIONS

Chassis Size	Insulation Kit
Small (15½")	DPI18-30/20
Medium (19½")	DPI36-42/20
Large (22")	DPI48-60/20

HORIZONTAL APPLICATIONS

Chassis Size	Insulation Kit
Small (15½")	DPIH18-32
Medium (19½")	DPIH36-42
Large (22")	DPIH48-61

Note: Each kit contains enough material to modify 20 coils

FILTERS

	Filter #	Qty Required
1729/ 1824	FIL 18-32	1
1931	FIL-36-42	1
3030/ 3636	FIL-36-42	1
3642	FIL 48-61	1
3743	FIL 48-61	1
4860/4961	FIL 48-61	1

NOTES