



# MULTI-Position Air Handler with Energy-Saving Motor

1½ to 5 Tons

#### **Standard Features**

- Suitable for use with refrigerants R-410A and R-22
- All-aluminum evaporator coil
- Check flowrater expansion device for cooling and heat pump applications
- Discreet-speed ECM motor
- Enhances the performance of your Goodman® brand air conditioner or heat pump
- Multi-position upflow, downflow or horizontal
- Built-in coil has horizontal, vertical, and downflow drain pans with secondary drain connections
- Cabinet air leakage less than 2.0% at 1.0 inch H<sub>2</sub>O when tested in accordance with ASHRAE standard 193
- Cabinet air leakage less than 1.4% at 0.5 inch H<sub>2</sub>O when tested in accordance with ASHRAE standard 193
- · AHRI Certified; ETL Listed

### **Cabinet Features**

- Fully insulated, painted steel cabinet with attractive Architectural Gray finish
- Foil-faced insulation is glued in place and covers the entire blower case to reduce opearting sound and cabinet condensation
- Built-in filter rack for 1" filter (filter not included)
- · Low-voltage cabinet connections
- Power supply on top
- · Low-voltage entry on top or side









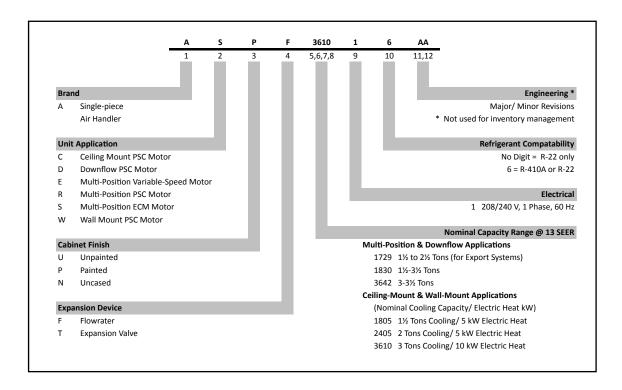


<sup>\*</sup> Complete warranty details available from your local dealer or at <a href="https://www.goodmanmfg.com">www.goodmanmfg.com</a>. To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California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





# Nomenclature







# **S**PECIFICATIONS

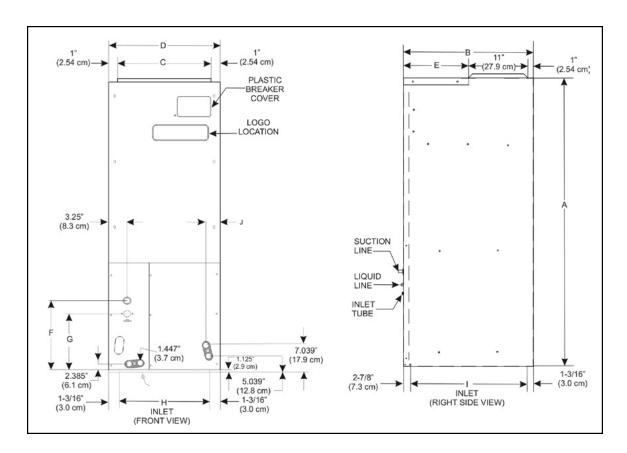
	ASPF 183016*	ASPF 313716*	ASPF 426016*
NOMINAL RATINGS			
Cooling (BTU/h)	18,000 - 30,000	30,000 - 36,000	42,000 - 60,000
Airflow rate CFM (High/Low) 1	1,085 / 650	1,350 / 600	2,000 / 1,175
Piston Size <sup>2</sup>	0.065	0.074	0.093
BLOWER			
Diameter	9%"	10%"	11 <sup>15</sup> ဩ₁6"
Width	8"	10%"	10%"
Coil Drain Connection FPT	3/4"	3/4"	3/4"
REFRIGERANT LINE CONNECTION SIZE			
Liquid	3/8"	3/8"	3/8"
Suction	3/4"	7∕8"	7∕8"
ELECTRICAL DATA			
Voltage	208/240	208/240	208/240
Electric Heat Capacity (kW)	5, 8, 10	3, 5, 6, 8, 10, 15, 20	10, 15, 20
Min Circuit Ampacity	3.1 / 3.1	3.8 / 3.8	5.3 / 5.3
Max. Overcurrent Device	15 / 15 amps	15 / 15 amps	15 / 15 amps
Min. / Max VAC	197 / 253	197 / 253	197 / 253
Blower Motor FLA/ HP	2.5 / ½	3.0 / ¾	4.2 / ¾
SHIP WEIGHT (LBS)	125	176	189

<sup>&</sup>lt;sup>1</sup> CFM @.3 static

Note: For a properly matched system and piston sizing information, refer to Amana piston kit chart of the corresponding Amana® outdoor unit.

<sup>&</sup>lt;sup>2</sup> Shipped with Coil

# **D**IMENSIONS



MODEL	Α	В	С	D	E	F	G	Н	I	J
ASPF183016*	46¾"	22"	17½"	19½"	10"	14½"	11 <sup>15</sup> / <sub>16</sub> "	17%"	17 <sup>15</sup> / <sub>16</sub> "	2"
ASPF313716*	53¼"	24"	20"	22"	12"	19%"	11 <sup>15</sup> / <sub>16</sub> "	19%"	19 <sup>15</sup> / <sub>16</sub> "	1 <sup>13</sup> / <sub>16</sub> "
ASPF426016*	53¼"	24"	20"	22"	12"	19%"	11 <sup>15</sup> / <sub>16</sub> "	19%"	19 <sup>15</sup> / <sub>16</sub> "	1 <sup>13</sup> / <sub>16</sub> "

# AIRFLOW DATA

84	Motor	CFM delivered against External Static Pressure				
MODEL	SPEED TAP	0.1"	0.2"	0.3"	0.4"	0.5"
	Low (T1)	700	670	650	595	510
	Med-Low (T2)	820	785	765	745	705
ASPF183016*	Medium (T3)	920	900	850	840	815
	Med-High (T4)	1,075	1,055	1,015	975	960
	High (T5)	1,130	1,115	1,085	1,040	1,000
	Low (T1)	1,060	865	600	515	420
	Med-Low (T2)	1,105	910	795	745	690
ASPF313716*	Medium (T3)	1,165	1,070	1,020	960	915
	Med-High (T4)	1,285	1,240	1,195	1,140	1,100
	High (T5)	1,435	1,395	1,350	1,315	1,265
	Low (T1)	1,445	1,275	1,175	940	855
	Med-Low (T2)	1,545	1,405	1,325	1,260	1,145
ASPF426016*	Medium (T3)	1,660	1,610	1,555	1,490	1,415
	Med-High (T4)	1,905	1,870	1,810	1,750	1,695
	High (T5)	2,115	2,070	2,000	1,965	1,915

#### NOTES

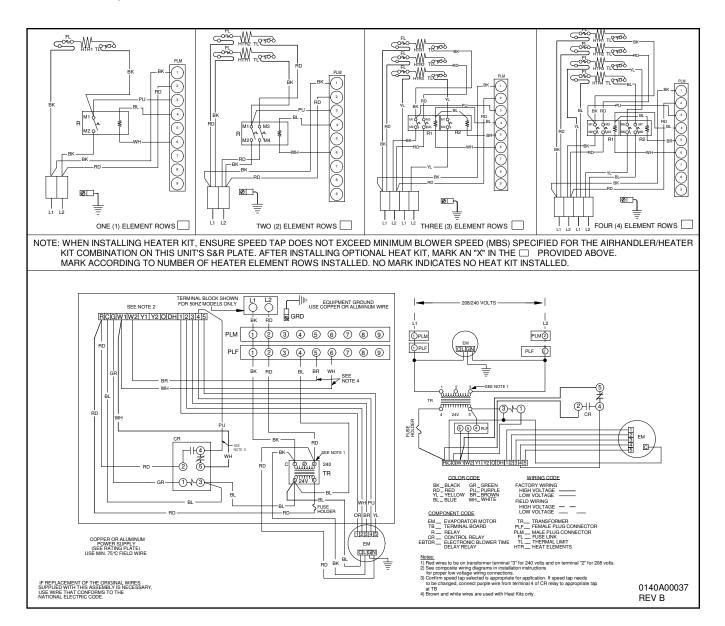
- Assumes dry coil with filter in place; SCFM correction for wet coil = 4%
- All ASPF models are shipped from the factory with the speed tap set on T4.

### **HEAT KIT SELECTION**

	ASPF 183016	ASPF 313716	ASPF 426016
HKR-03*	Х	Х	Х
HKR-05*, HKR-05C*	Х	Х	Х
HKR-06*	Х	Х	Х
HKR-08*, HKR-08C*	X¹	X¹	Х
HKR-10*, HKR-10C*	X¹	X¹	Х
HKR-15CA, HKR-15CB	X <sup>2</sup>	X <sup>2</sup>	X <sup>1</sup>
HKR-20CA, HKR-20CB		X <sup>2</sup>	X <sup>1</sup>
^ HKR3-15*	X²	X <sup>2</sup>	X <sup>1</sup>
^ HKR3-20*		X <sup>2</sup>	X <sup>1</sup>

- \* Revision level that may or may not be designated
- C Circuit breaker option
- ^ Heat kit requires three-phase power supply
- <sup>1</sup> Air handler must be on speed tap 2, 3, 4, or 5.
- <sup>2</sup> Air handler must be on speed tap 4 or 5.
- <sup>3</sup> Air handler must be on speed tap 3, 4, or 5.

# ASPF\*\*\*\*B\*/D\* WIRING DIAGRAM

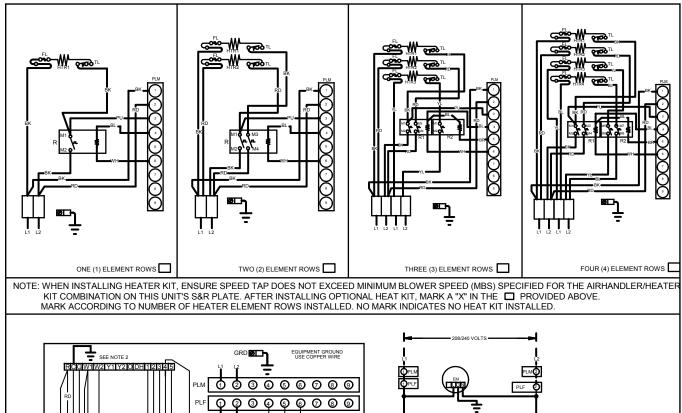


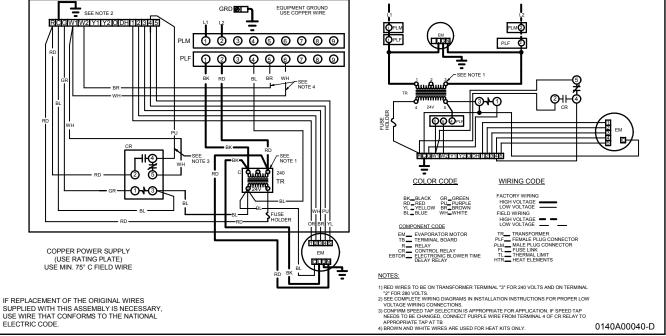
Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.



**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.

# ASPF\*\*\*\*C\*/E\* WIRING DIAGRAM





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



**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.

# Accessories

### 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
TX2N4A	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

Note: Each kit contains enough material to modify 20 coils

### 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

### SINGLE-POINT KIT \*\*

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

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

### **F**ILTERS

ASPF	FILTER #	QTY REQUIRED
1830	FIL-36-42	1
3137	FIL 48-61	1
4260	FIL 48-61	1