



Air Conditioning & Heating



PRODUCT SPECIFICATIONS

AEPF/AEPT SERIES

MULTI-POSITION,
VARIABLE-SPEED
AIR HANDLERS

1½ TO 5 TON



The Goodman® 2006 AEPF Revision A model Multi-Position, Variable-Speed Air Handler is suitable for use with refrigerants R-410A and R-22. Revision B models are suitable for R-22 while AEPT models are R-22 only. The Air Handlers' blower design includes a variable-speed DC motor to help eliminate the cold blast of air upon heating start-up.

Standard Features

- Check flowrate expansion device for cooling and heat pump applications (AEPF)
- Check expansion valve for cooling and heat pump applications (AEPT)
- Variable-speed motor
- Provides constant CFM over a wide range of static pressure conditions independent of duct system; provides low CFM for efficient fan-only operation
- Up to 14 field-selectable airflow settings can be adjusted to optimize the system's CFM for each individual mode of operation
- Improved humidity control and comfort
- Compatible with heat pumps and variable-capacity cooling applications
- Multi-position—upflow, downflow or horizontal installations
- Built-in coil has horizontal, vertical, and downflow drain pans with secondary drain connections
- ARI Certified
- ETL Certified

Cabinet Features

- Fully painted cabinet with attractive Architectural Gray finish
- Built-in filter rack for 1" filter (filter not included)
- Low-voltage cabinet connections; control circuit is arranged to permit staging
- Power supply on top; low-voltage entry on top or side
- Factory-sealed to achieve 2% or less leakage rate at 1.0" water gauge external duct static pressure

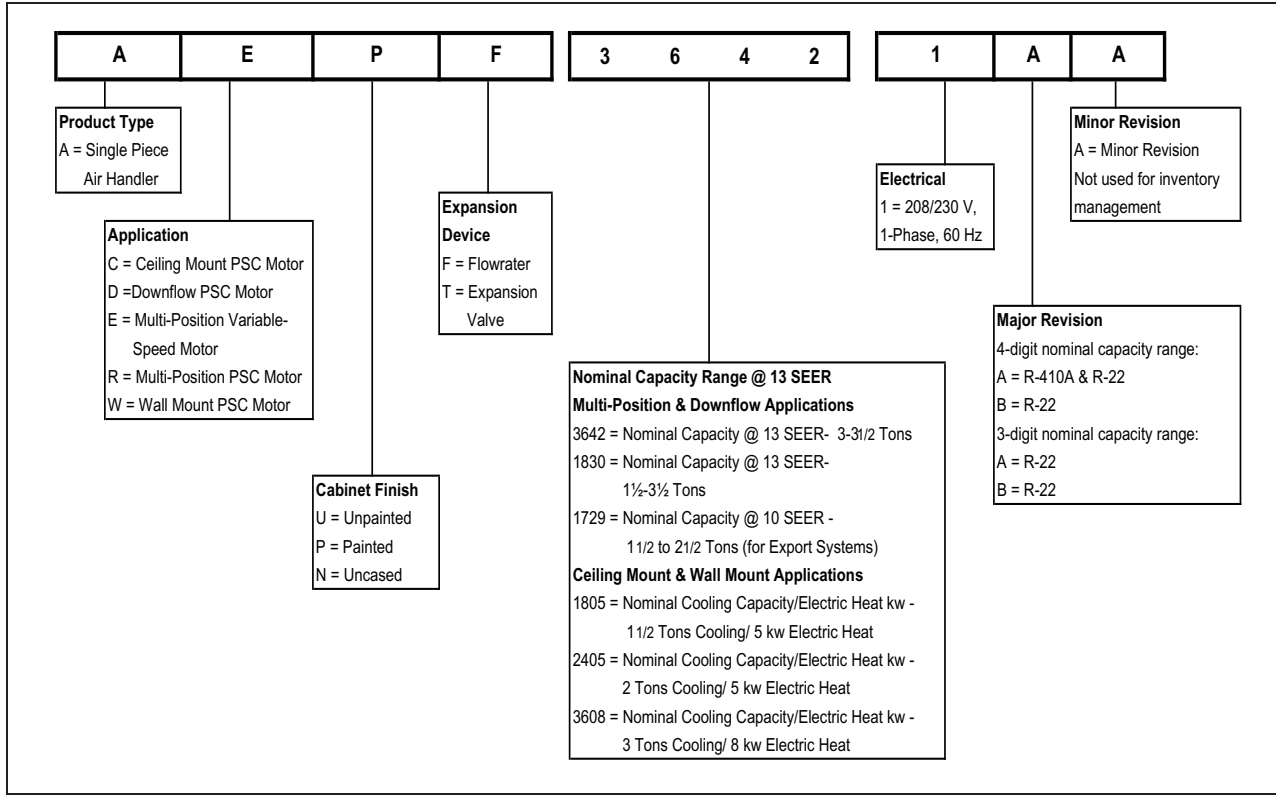
Accessories

- 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



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NOMENCLATURE



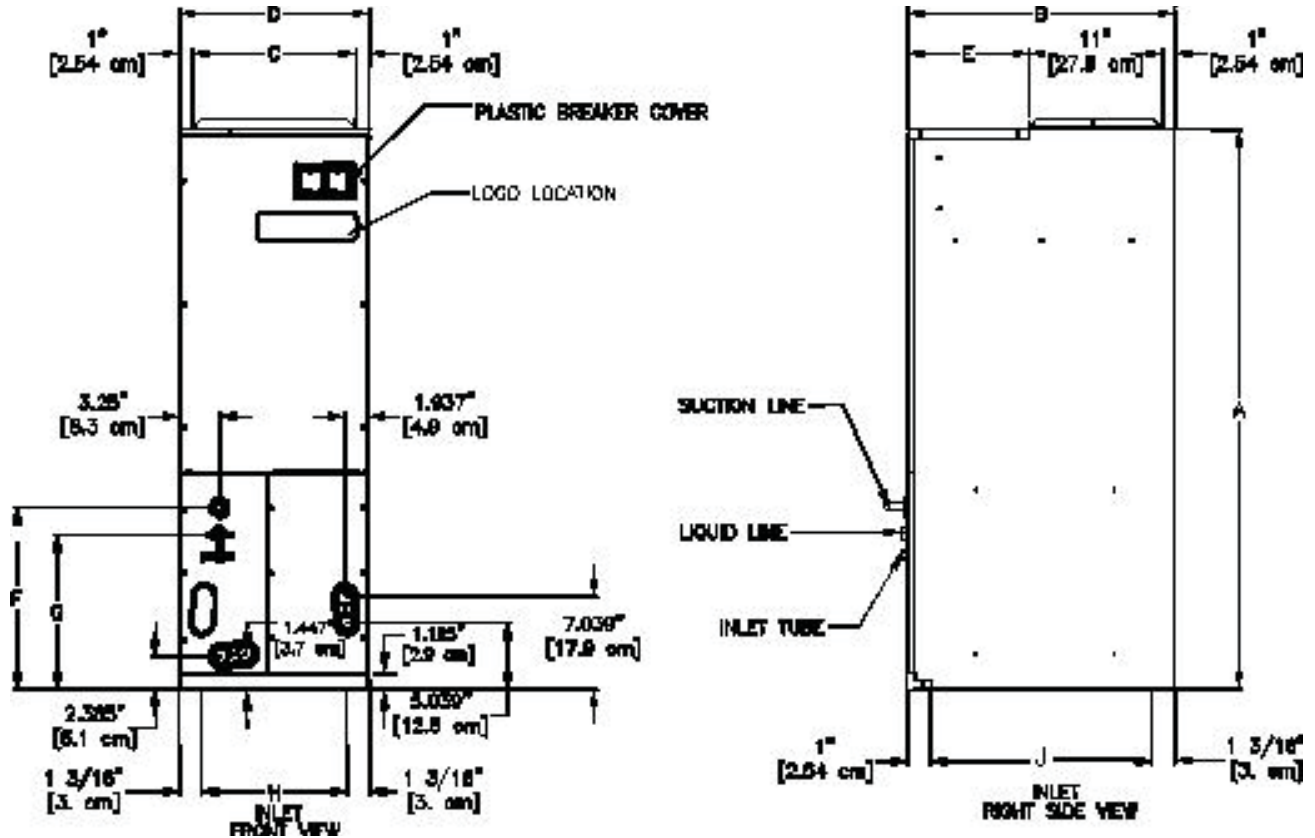
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SPECIFICATIONS

	AEPF1830-1AA	AEPF3036-1AA	AEPF4260-1AA	AEPT030-00C-1A	AEPT036-00C-1A	AEPT060-00C-1A
Specifications						
Blower						
Diameter	9½"	10 ⁵ / ₈ "	10 ⁵ / ₈ "	9½"	10 ⁵ / ₈ "	10 ⁵ / ₈ "
Width	8"	10 ⁵ / ₈ "	10 ⁵ / ₈ "	8"	10 ⁵ / ₈ "	10 ⁵ / ₈ "
Coil Drain Connection FPT	¾"	¾"	¾"	¾"	¾"	¾"
Service Valve						
Liquid	¾"	¾"	¾"	¾"	¾"	¾"
Suction	¾"	7 ⁸ / ₈ "	7 ⁸ / ₈ "	¾"	7 ⁸ / ₈ "	7 ⁸ / ₈ "
Electrical Data						
Voltage	208/240	208/240	208/240	208/240	208/240	208/240
Electric Heat Capacity (kW)	5, 8, 10	8, 10, 15	10, 15, 20, 21	5, 8, 10	8, 10, 15	10, 15, 20, 21
Min Circuit Ampacity	2.5	3.1	7.8	2.5/2.5	3.1/3.1	7.8/7.8
Max. Overcurrent Device (amps)	15	15	15	15/15	15/15	15/15
Minimum VAC	197	197	197	197	197	197
Maximum VAC	253	253	253	253	253	253
Blower Motor						
FLA	2.0	2.5	6.2	2	2.5	6.2
HP	½	¾	¾	½	¾	¾
Ship Weight (lbs)	147	176	195	147	176	195

PRODUCT SPECIFICATIONS

DIMENSIONS

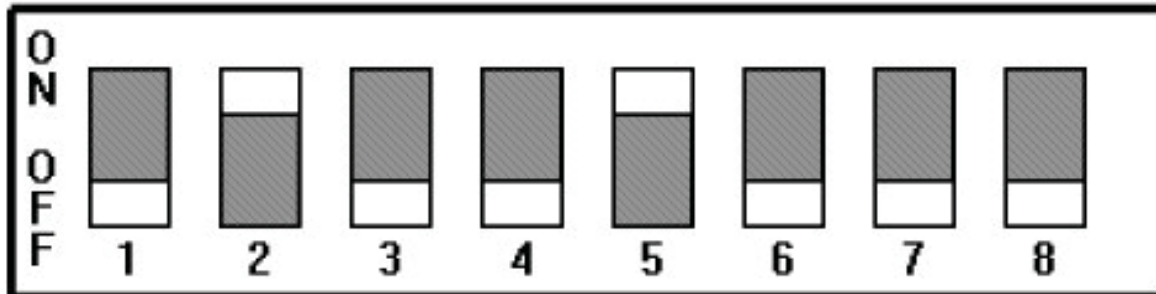


Model	A	B	C	D	E	F	G	H	I	J
AEPF18301*A	46 $\frac{3}{4}''$	22"	17 $\frac{1}{2}''$	19 $\frac{1}{2}''$	10"	14 $\frac{1}{2}''$	11.935"	17 $\frac{1}{8}''$	17.938"	2.024"
AEPF30361*A	53 $\frac{1}{4}''$	24"	20"	22"	12"	14 $\frac{1}{2}''$	11.935"	19 $\frac{5}{8}''$	17.938"	1.837"
AEPF42601*A	53 $\frac{1}{4}''$	24"	20"	22"	12"	14 $\frac{1}{2}''$	11.935"	19 $\frac{5}{8}''$	17.938"	1.837"
AEPT03000C-1A	46 $\frac{3}{4}''$	22"	17 $\frac{1}{2}''$	19 $\frac{1}{2}''$	10"	14 $\frac{1}{2}''$	11.935"	17 $\frac{1}{8}''$	17.938"	2.024"
AEPT03600C-1A	53 $\frac{1}{4}''$	24"	20"	22"	12"	14 $\frac{1}{2}''$	11.935"	19 $\frac{5}{8}''$	17.938"	1.837"
AEPT06000C-1A	53 $\frac{1}{4}''$	24"	20"	22"	12"	14 $\frac{1}{2}''$	11.935"	19 $\frac{5}{8}''$	17.938"	1.837"

AEPF/AEPT DIPSWITCHES

The AEPF/AEPT air handler blower motors have been pre-programmed for operation at four distinct airflow levels when operating in the Cooling, Heat Pump Heating, Backup Heating (Electric Heating), and Backup + Heat Pump Heating. Each mode has four levels to deliver different CFM. Simply flip the dipswitch and you can get a different CFM combination.

Setting Up Your Motor



Dipswitch Number	Function	Instructions
1	Electric Heat Mode	Select the taps allowed in the tables (Dipswitch 1/2) below.
2	Electric Heat Mode	
3	N/A	
4	Thermostat Mode	ON = The system operates with single-stage units using a single-stage cooling or heat pump thermostat. (factory default) OFF = The system operates with two-stage units with either a conventional two-stage cooling/heat pump thermostat or with an encoded two-stage thermostat for cooling operation. The encoded thermostats can be used with two-stage condensing units in retrofit applications where there aren't enough existing wires available for connections to the indoor thermostat and outdoor units.
5	Cooling/Heat Pump Mode	Find the airflow for your application in the tables (Dipswitch 5/6) below. Set up the motor based on the outdoor unit capacity tons.
6	Cooling/Heat Pump Mode	
7	Trim CFM Adjust Mode	Increase or decrease your selected airflow to fit your requirement. ON-OFF = Increases selected Cool/Heat Pump airflow by 10%. OFF-ON = Decreases selected Cool/Heat Pump airflow by 15%. NOTE: Other settings have no effect on the set airflow.
8	Trim CFM Adjust Mode	

Dipswitch 1/2

AEPF1830 & AEPT30

Heating Element (kW)	Switch Position	Emergency Backup	Heat Pump with Backup
Up to 10	On-On ¹	1,020	1,070
Up to 10	On-Off	850	935
5	Off-On	700	770

Dipswitch 5/6

AEPF1830 & AEPT30

Heating Element (kW)	Switch Position	Emergency Backup	Heat Pump with Backup
2.5	On-On ¹	1,020	1,020
2	On-Off	800	800
1.5	Off-On	600	600

AEPF3036/4260 & AEPT36/60

Heating Element (kW)	Switch Position	Emergency Backup	Heat Pump with Backup
Up to 20	Off-Off	2,050	2,150
Up to 20	On-Off	1,750	1,835
Up to 15	Off-On	1,600	1,680
Up to 10	On-On	1,200	1,260

AEPF3036/4260 & AEPT36/60

Heating Element (kW)	Switch Position	Emergency Backup	Heat Pump with Backup
5	Off-Off	1,800	1,800
4	On-Off	1,580	1,580
3.5	Off-On	1,480	1,480
3	On-On	1,200	1,200

¹ 7-8 shall be OFF-ON for 2.5-ton applications

NOTE: When applying a humidistat (normally closed), refer to the installation and operating instructions. The humidistat can adjust the cooling airflow to 85%.

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ACCESSORIES

Heat Kit Selection

Model	AEPF18301*A	AEPF30361*A	AEPF42601*A	AEPT03000C-1A	AEPT03600C-1A	AEPT06000C-1A
HKR-05C	X			X		
HKR-08C	X	X		X	X	
HKR-10C	X	X	X	X	X	X
HKR-15C		X	X		X	X
HKR-20C			X			X
HKR-21C			X			X

NOTE: The C indicates circuit breakers are optional
 * Heat Kit requires three-phase power supply

Expansion Valve Kits for Air Conditioning-only Applications

Kit Number	Used with	Description
XVB18-36C	AEPF/AEPT 18 to 36	20% bleed valve
XVB42-60C	AEPFAEPT 42 to 60	20% bleed valve
XV18-36C	AEPF/AEPT 18 to 36	Non-bleed valve
XV42-60C	AEPFAEPT 42 to 60	Non-bleed valve

Expansion Valve Kits for Air Conditioning and Heat Pump Applications

For R-22 Systems

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

For R-410A Systems

Valve	Description	Cap Used with Outdoor Units below
TX3N4	Non-bleed valve	3 Ton > Air Conditioner & Heat Pump
TX5N4	Non-bleed valve	3½ Ton < Air Conditioner & Heat Pump

Drain Pan Insulation Kit for 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 Drain Pan Insulation Kits

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

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