

## Specification Guide

# US Air Conditioning Distributors

## AM Series Air Handlers – Upflow, Horizontal Left/Right, or Downflow

### Cabinet Features

- Two independent front access panels allow for easy access to clean the coil, even after installation.
- Downflow kit available for field installation.
- Only four (4) screws to remove blower panel for easier access.
- Slide-out blower and coil assemblies.
- Cabinet constructed of heavy gauge painted steel for additional corrosion resistance.
- High quality 5/8" foil-faced insulation lines cabinet, with cabinet flanges & retaining rods for better attachment.
- Brackets hold coil assembly in place when installed horizontally.
- Filter rack built into every air handler (filter not included).
- Independent lab tested 2% or less air leakage for better efficiency.



### Evaporator Coil Features

- Rifled copper tubing; lanced fin design.
- TXV Bulbs come standard attached to header assembly.
- Coils are air pressure tested at 500 PSI, leak tested with helium, sealed with rubber plugs, then charged with dry air.
- *HYDROTEC™* drain pans hold less water, which reduces the possibility of mold and mildew growing in the pan.
- All drain pans have Microban protection, which inhibits the growth of mold and mildew that cause odors and staining.
- Drain pans are molded of corrosion proof engineered polymer.
- Dual 3/4" FPT condensate drains on left and right sides.

### Electrical Features

- Dynamically balanced blowers for quiet, vibration-free operation.
- Fan time delay factory installed (1 second on, 45 seconds off).
- Line voltage connections can be made on top, right or left side of cabinet.
- Electric heat kits available for field installation.

Note: AM Series air handlers feature a standard 5-year limited warranty; a 10-year limited warranty is available with registration.

Physical Data		Model >>>	AM240	AM250	AM360	AM380	AM480	AM600
R-410A Metering Device			TXV	TXV	TXV	TXV	TXV	TXV
Maximum Electric Heat Available (kW)			10	10	15	15	20	20
Blower Data: 3-Speed PSC Motor (240V)	Motor H. P.		1/3	1/3	1/3	-	1/2	1/2
	F. L. A. @ 240 V		1.6	1.9	2.6	-	3.9	3.9
	Wheel (dia. x width)		9 x 6	10 x 8	10 x 8	-	11 x 10	11 x 10
Blower Data: 3-Speed PSC Motor (120V)	Motor H. P.		1/3	-	1/3	1/3	3/4	3/4
	F. L. A. @ 120 V		3.2	-	5.3	5.3	7.5	10.5
	Wheel (dia. x width)		9x6	-	10x8	9 x 6	10x8	10x10
Nominal CFM			800	800	1200	1200	1600	2000
Air Filter Size (in)			12 x 20	16 x 20	16 x 20	18x25	18 x 25	18 x 25
Sound Level Min / Max @ 0.3 Static (dBA) [1]			46 / 51	48 / 50	48 / 50	53	53 / 54	53 / 54
Refrigerant Conn. (IDS) Suction, Liquid (in)			3/4 , 3/8	7/8, 3/8	7/8, 3/8	7/8, 3/8	7/8, 3/8	7/8, 3/8
Approx. Weight (lbs, base unit w/out heat)			80	105	105	155	155	155
Transformer Size and Type			40 VA, Class 2					

[1] Sound level min/max is based on selectable speed tab settings (see blower performance on page 2).



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## Blower Performance: 3-Speed PSC Motor

- All data is given while air handler is operating with a dry coil and air filter installed.
- Speeds marked **\*bold with asterisk** are the factory speed settings for both heating and cooling.
- Heating speeds should not be reduced below factory setting.
- Different speeds can be set for cooling mode; see installation instructions for changing cooling speeds.
- For downflow operation (with field installed kit), use the next highest speed setting available. If set to high speed from the factory, use high speed for downflow.

### 208/240 Volt 3-Speed PSC Motor

<b>Lab Test Data</b>		<b>Airflow (CFM) vs. External Static Pressure (inches W.C.)</b>				
<b>Model</b>	<b>Speed</b>	<b>0.10</b>	<b>0.20</b>	<b>0.30</b>	<b>0.40</b>	<b>0.50</b>
<b>AM240</b>	Low	663	624	583	578	562
	<b>*Med</b>	902	864	822	792	744
	High	1159	1097	1031	960	893
<b>AM250</b>	<b>*Low</b>	867	839	803	780	733
	Med	1044	1015	991	941	889
	High	1260	1234	1200	1149	1098
<b>AM360</b>	Low	1143	1112	1081	1047	1015
	<b>*Med</b>	1268	1233	1186	1165	1133
	High	1415	1390	1352	1314	1260
<b>AM480 **</b>	<b>*Low</b>	1764	1709	1652	1563	1418
	Med	1984	1884	1780	1683	1509
	High	2031	1959	1832	1725	1617
<b>AM600</b>	Low	1764	1709	1652	1563	1418
	Med	1984	1884	1780	1683	1509
	<b>*High</b>	2031	1959	1832	1725	1617

\*\* Use only low speed on heating for AM480 with 5kW electric heat.

### 120 Volt 3-Speed PSC Motor

		<b>Airflow (CFM) vs. External Static Pressure (inches W.C.)</b>				
<b>Model</b>	<b>Speed</b>	<b>0.10</b>	<b>0.20</b>	<b>0.30</b>	<b>0.40</b>	<b>0.50</b>
<b>AM240</b>	Low	530	525	519	507	483
	<b>*Med</b>	925	915	875	823	736
	High	1189	1110	1016	917	826
<b>AM360</b>	Low	945	930	912	869	793
	<b>*Med</b>	1150	1145	1123	1166	1004
	High	1291	1291	1285	1277	1200
<b>AM380</b>	<b>*Low</b>	1008	1004	972	925	867
	Med	1190	1150	1100	1040	970
	High	1250	1200	1140	1070	995
<b>AM480</b>	Low	1393	1378	1366	1246	1167
	<b>*Med</b>	1603	1592	1575	1540	1443
	High	1811	1811	1805	1744	1674
<b>AM600</b>	Low	1583	1583	1583	1567	1551
	<b>*Med</b>	1972	1972	1968	1882	1819
	High	2169	2146	2096	2004	1908

## Electrical Data: 3 Speed PSC Motor

### No Electric Heat

Model	Electric Heating Capacity		Blower Amps			Minimum Circuit Ampacity			Circuit Breaker Amps per Stage	
	kW	BTUH	120 V	208 V	240 V	120 V	208 V	240 V	1	2
	240 V <sup>[2]</sup>	240 V <sup>[2]</sup>								
AM240	0	0	3.2	1.7	1.6	4.0	2.1	2.0	15	-
AM250	0	0	-	2.0	1.9	-	2.5	2.4	15	-
AM360	0	0	5.3	2.7	2.6	6.6	3.4	3.3	15	-
AM380	0	0	5.3	-	-	6.6	-	-	15	-
AM480	0	0	7.5	4.1	3.9	9.4	5.1	4.9	15	-
AM600	0	0	10.5	4.1	3.9	13.1	5.1	4.9	16	-

### With Electric Heat

Model	Electric Heating Capacity		Blower Amps		Minimum Circuit		Circuit Breaker Amps per Stage <sup>[3]</sup>	
	kW	BTUH	208 V	240 V	208 V	240 V	1	2
	240 V <sup>[2]</sup>	240 V <sup>[2]</sup>						
AM240	5	17,065	1.7	1.6	24.7	28.0	30	-
	7.5	25,598	1.7	1.6	36.0	41.1	45	-
	10	34,130	1.7	1.6	47.2	54.1	60	-
AM250	5	17,065	2.0	1.9	25.1	28.4	30	-
	7.5	25,598	2.0	1.9	36.4	41.4	45	-
	10	34,130	2.0	1.9	47.6	54.5	60	-
AM360	5	17,065	2.7	2.6	26.0	29.3	30	-
	7.5	25,598	2.7	2.6	37.3	42.3	45	-
	10	34,130	2.7	2.6	48.6	55.3	60	-
	<b>15</b>	51,195	2.7	2.6	71.1	81.4	60	30
AM480	5	17,065	4.1	3.9	27.7	30.9	45 <sup>[4]</sup>	-
	7.5	25,598	4.1	3.9	39.0	43.9	60	-
	10	34,130	4.1	3.9	50.3	57.0	60	-
	<b>15</b>	51,195	4.1	3.9	72.9	83.0	60	30
	<b>20</b>	68,260	4.1	3.9	95.4	109.0	60	60
AM600	7.5	25,598	4.1	3.9	39.0	43.9	45	-
	10	34,130	4.1	3.9	50.3	57.0	60	-
	<b>15</b>	51,195	4.1	3.9	72.9	83.0	60	30
	<b>20</b>	68,260	4.1	3.9	95.4	109.0	60	60

[1] kW packages in **bold italics** require and include circuit breakers; circuit breakers are optional for others.

[2] For 208 volt use 0.751 correction factor for kW & BTUH.

[3] Listed circuit breaker size is for 240V applications. For 208V verify breaker sizing based on min. circuit ampacity.

[4] Breaker supplied with heat kit may need to be changed. Verify breaker sizing based on min. circuit ampacity.

# Dimensions

Air Handler Size	A (in)	B (in)	C (in)	Supply Duct Opening		Return Duct Opening	
				Depth (in)	Width (in)	Depth (in)	Width (in)
AM240	36	22	15	17	13	20.35	12.20
AM250, AM360	41	22	18 1/2	17	16.5	20.35	16.20
AM380, AM480, AM600	48	26	21 7/8	21	20	24.60	20.08

