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Advanced Distributor Products®

PFAS

# S Series

## Compact Wall Mount Air Handlers

*Specification Guide*

*Electric or No Heat, with available 5-Speed High Efficiency ECM Motor*



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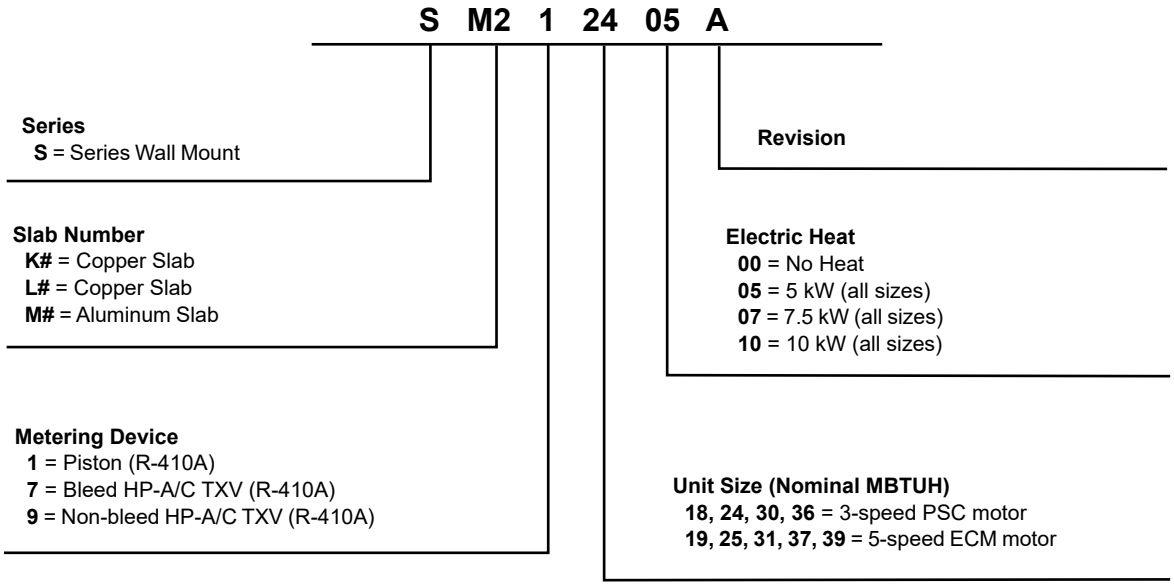
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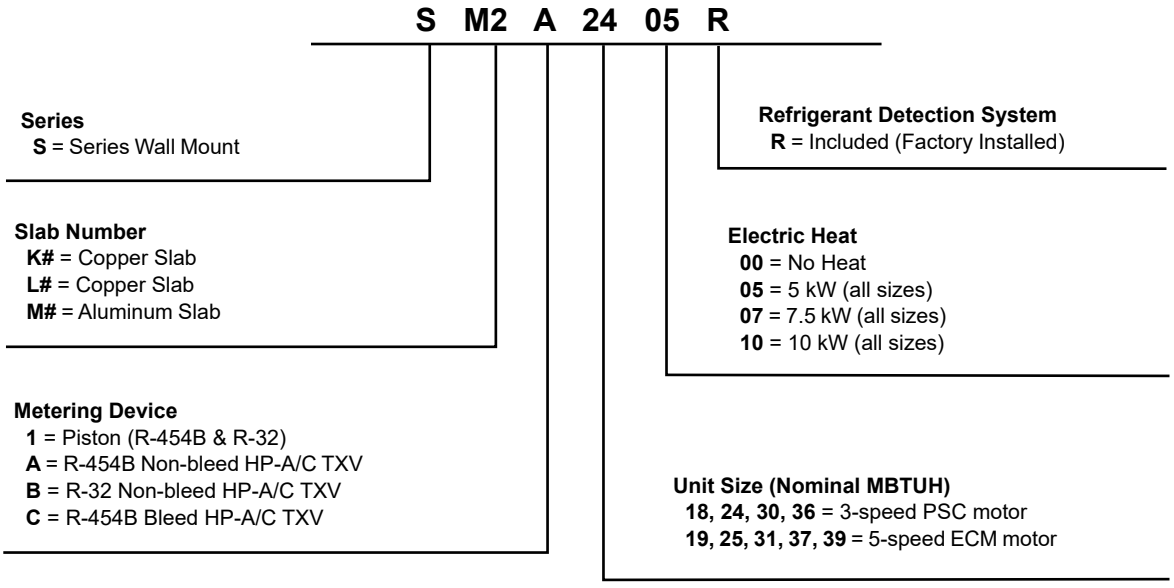
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# *A1 Refrigerants Product Nomenclature*




# *A2L Refrigerants Product Nomenclature*



# *Product Features*

## *Cabinet & General Features*

- Flexible copper tubing for easy motor access.
- Low 31” height on models 18 – 37.
- Cabinets constructed of heavy-gauge, corrosion-resistant galvanized steel.
- 5/8” foil-faced insulation for excellent sweat resistance and quiet operation.
- (4) Screw removal for easy access to all electrical connections.
- Dual condensate drain connections on left side, right side, and bottom of cabinet.
- 1” duct flanges on all models simplify attachment to plenums.
- Air filter included with every air handler; no tools required for changeout.
- Decorative wall panel or closet panel available as accessory; both panels reduce published sound level.
- Wall hanging bracket included for field installation.

## *Evaporator Coil Features*

- AC or HP applications.
- A1 models suitable for use with R-22 & R-410A.
- A2L models suitable for use with R-32 and R-454B and include factory installed Refrigerant Detection System (RDS).
- Field or factory installed threaded expansion valve.
- Corrosion proof plastic drain pan.

## *Electrical Features*

- 5-speed high efficiency ECM motor or PSC motor available.
- Easy to service electric heat section.
- Heat kits available factory installed.
- Pull disconnect line voltage connection standard on all models.
- Includes thermostat connections, time delay (1 sec. on, 45 sec. off), & motor speed settings (PSC motor uses control board; functions are built into the 5-speed ECM motor).

| *Physical Data* | | Unit Size | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | **18** | **19** | **24** | **25** | **30** | **31** | **36** | **37** | **38** |
| **Available Voltage** | | 208/240 V, 60 Hz, 1 Phase | | | | | | | | |
| **Maximum Elec. Heat available (kW)** | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| **Transformer Size and Type** | | 40VA, Class 2 | | | | | | | | |
| **Blower Data :** | **Motor H.P.** | 1/4 | - | 1/4 | - | 1/3 | - | 1/3 | - | - |
| **3-Speed PSC Motor** | **F.L.A. @ 240 V** | 1.7 | - | 1.7 | - | 2.0 | - | 2.0 | - | - |
| **Blower Data:** | **Motor H.P.** | - | 1/3 | - | 1/3 | - | 1/3 | - | 1/2 | 1/2 |
| **5-Speed High Eff. ECM Motor** | **F.L.A. @ 240 V** | - | 0.8 | - | 1.7 | - | 2.2 | - | 2.9 | 2.9 |
| **Wheel (dia.” x width”)** | | 10 x 6 | 10 x 6 | 10 x 6 | 10 x 6 | 10 x 6 | 10 x 6 | 10 x 6 | 10 x 6 | 10 x 6 |
| **Nominal CFM** | | 600 | 600 | 800 | 800 | 1000 | 1000 | 1200 | 1200 | 1200 |
| **Refrigerant Conn. (IDS) Suction** | | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” |
| **Refrigerant Conn. (IDS) Liquid** | | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” |
| **R-410A Piston Size (in)** | | 0.049 | 0.049 | 0.053 | 0.053 | 0.059 | 0.059 | 0.067 | 0.067 | 0.067 |
| **R-22 Piston Size (in) (for replacement only)** | | 0.053 | 0.053 | 0.059 | 0.059 | 0.067 | 0.067 | 0.073 | 0.073 | 0.073 |
| **Pallet Quantity (min order per model number)** | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| **Sound Level @ 0.3 Static w/o Wall Panel (dBA)[1]** | | 60 | 60 | 64 | 64 | 69 | 69 | 72 | 69 | 69 |
| **Copper Weights** | | | | | | | | | | |
| **Max Unit Weight (lbs)** | | 78 | 81 | 78 | 81 | 81 | 84 | 81 | 84 | 87 |
| **Max Shipping Weight (lbs)** | | 85 | 90 | 85 | 90 | 90 | 95 | 100 | 105 | 108 |
| **Aluminum Weights** | | | | | | | | | | |
| **Max Unit Weight (lbs)** | | 73 | 76 | 73 | 76 | 76 | 79 | 76 | 79 | - |
| **Max Shipping Weight (lbs)** | | 80 | 85 | 80 | 85 | 85 | 90 | 95 | 100 | - |

[1] Typical sound levels based on 240V 3-speed PSC motor.

Note: 18” clearance required in front of unit for filter and coil maintenance. Can be less if front panel is directly behind a louvered closet door; check local codes and regulations.

**Note:** Minimum order quantity of 4 per model number.

## Air Filter Size

| **Slab Number** | K1 | K2 | K3 | K6 | K7 | L5 | L6 | L9 |
|---|---|---|---|---|---|---|---|---|
| **Filter size** | 20" x 20" | 20" x 20" | 20" x 20" | 20" x 25" | 20" x 25" | 20" x 25" | 20" x 25" | 20" x 30" |

| **Slab Number** | M2 | M3 | M5 | M6 | M7 |
|---|---|---|---|---|---|
| **Filter size** | 20" x 20" | 20" x 20" | 20" x 25" | 20" x 25" | 20" x 25" |

## *Blower Performance*

### 3-Speed PSC Motor

| Unit Size | Cooling Speed Setting | Airflow (CFM) vs. External Static Pressure (inches W.C.) *** | | | | |
|---|---|---|---|---|---|---|
| | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 |
| 18 | * ^ Low - Red | 559 | 529 | 606 | 591 | 576 |
| | Med - Blue | 802 | 784 | 751 | 722 | 693 |
| | High -Black | 1046 | 1013 | 987 | 943 | 885 |
| 24 | Low - Red | 606 | 591 | 576 | 559 | 529 |
| | * ^ Med - Blue | 802 | 784 | 751 | 722 | 693 |
| | High -Black | 1046 | 1013 | 987 | 943 | 885 |
| 30 | Low - Red | 816 | 809 | 802 | 775 | 752 |
| | * ^ Med - Blue | 1000 | 985 | 970 | 935 | 889 |
| | High -Black | 1218 | 1175 | 1122 | 1070 | 1008 |
| 36 | Low - Red | 816 | 809 | 802 | 775 | 752 |
| | Med - Blue | 1000 | 985 | 970 | 935 | 889 |
| | * ^ High -Black | 1218 | 1175 | 1122 | 1070 | 1008 |

### 5-Speed High Efficiency ECM Motor

| Unit Size | Cooling Speed Setting | Airflow (CFM) vs. External Static Pressure (inches W.C.) *** | | | | |
|---|---|---|---|---|---|---|
| | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 |
| 19 | Tap 1 | 547 | 484 | 366 | 309 | 268 |
| | * Tap 2 | 651 | 600 | 566 | 516 | 466 |
| | Tap 3 | 695 | 646 | 617 | 566 | 544 |
| | ^ Tap 4 | 742 | 700 | 669 | 627 | 600 |
| | Tap 5 | 758 | 712 | 682 | 641 | 625 |
| 25 | Tap 1 | 569 | 453 | 347 | 264 | 264 |
| | Tap 2 | 659 | 600 | 569 | 518 | 475 |
| | * Tap 3 | 847 | 800 | 787 | 744 | 722 |
| | ^ Tap 4 | 928 | 901 | 883 | 846 | 802 |
| | Tap 5 | 970 | 944 | 927 | 891 | 864 |
| 31 | Tap 1 | 656 | 600 | 567 | 522 | 473 |
| | Tap 2 | 842 | 800 | 782 | 739 | 716 |
| | * Tap 3 | 1059 | 1028 | 1004 | 972 | 946 |
| | ^ Tap 4 | 1106 | 1084 | 1053 | 1030 | 1000 |
| | Tap 5 | 1137 | 1108 | 1085 | 1055 | 1031 |
| 37 | Tap 1 | 848 | 800 | 769 | 726 | 692 |
| | Tap 2 | 1051 | 1028 | 1000 | 956 | 930 |
| | * Tap 3 | 1247 | 1215 | 1188 | 1161 | 1126 |
| | ^ Tap 4 | 1310 | 1279 | 1254 | 1228 | 1200 |
| | Tap 5 | 1364 | 1334 | 1304 | 1279 | 1250 |
| 39 | Tap 1 | 800 | 783 | 747 | 725 | 689 |
| | Tap 2 | 1034 | 1003 | 987 | 959 | 937 |
| | * Tap 3 | 1281 | 1253 | 1228 | 1207 | 1186 |
| | ^ Tap 4 | 1343 | 1314 | 1290 | 1261 | 1226 |
| | Tap 5 | 1367 | 1342 | 1312 | 1277 | 1239 |

* Factory setting for cooling.
^ Factory setting for heating.
*** All airflow data is with a dry coil, filter, & electric heat.

*Heating speeds should not be reduced below factory setting.*
*Different speeds can be set for cooling mode; see installation instructions.*

## *Electrical Data*

**3-Speed PSC Motor**

| Unit Size (All have electric heat) | Heating Capacity | | Blower Current (A) | | Total Current (A) | | Minimum Circuit Ampacity (A) | | Maximum Circuit Breaker Size Per Stage (A) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | kW | BTUH | | | | | | | | |
| | 240 V [1] | 240 V [1] | 208 V | 240 V | 208 V | 240 V | 208 V | 240 V | 208 V | 240 V |
| 18 | 0 | 0 | 1.8 | 1.7 | 1.8 | 1.7 | 2.3 | 2.1 | 15 | 15 |
| | 5 | 17,061 | 1.8 | 1.7 | 19.9 | 22.5 | 24.8 | 28.2 | 25 | 30 |
| | 7.5 | 25,591 | 1.8 | 1.7 | 28.9 | 33 | 36.1 | 41.2 | 40 | 45 |
| | 10 | 34,121 | 1.8 | 1.7 | 37.9 | 43.4 | 47.4 | 54.2 | 50 | 60 |
| 24 | 0 | 0 | 1.8 | 1.7 | 1.8 | 1.7 | 2.3 | 2.1 | 15 | 15 |
| | 5 | 17,061 | 1.8 | 1.7 | 19.9 | 22.5 | 24.8 | 28.2 | 25 | 30 |
| | 7.5 | 25,591 | 1.8 | 1.7 | 28.9 | 33 | 36.1 | 41.2 | 40 | 45 |
| | 10 | 34,121 | 1.8 | 1.7 | 37.9 | 43.4 | 47.4 | 54.2 | 50 | 60 |
| 30 | 0 | 0 | 2.1 | 2 | 2.1 | 2 | 2.6 | 2.5 | 15 | 15 |
| | 5 | 17,061 | 2.1 | 2 | 20.2 | 22.8 | 25.2 | 28.5 | 30 | 30 |
| | 7.5 | 25,591 | 2.1 | 2 | 29.2 | 33.3 | 36.5 | 41.6 | 40 | 45 |
| | 10 | 34,121 | 2.1 | 2 | 38.2 | 43.7 | 47.8 | 54.6 | 50 | 60 |
| 36 | 0 | 0 | 2.1 | 2 | 2.1 | 2 | 2.6 | 2.5 | 15 | 15 |
| | 5 | 17,061 | 2.1 | 2 | 20.2 | 22.8 | 25.2 | 28.5 | 30 | 30 |
| | 7.5 | 25,591 | 2.1 | 2 | 29.2 | 33.3 | 36.5 | 41.6 | 40 | 45 |
| | 10 | 34,121 | 2.1 | 2 | 38.2 | 43.7 | 47.8 | 54.6 | 50 | 60 |

**5-Speed High Efficiency ECM Motor**

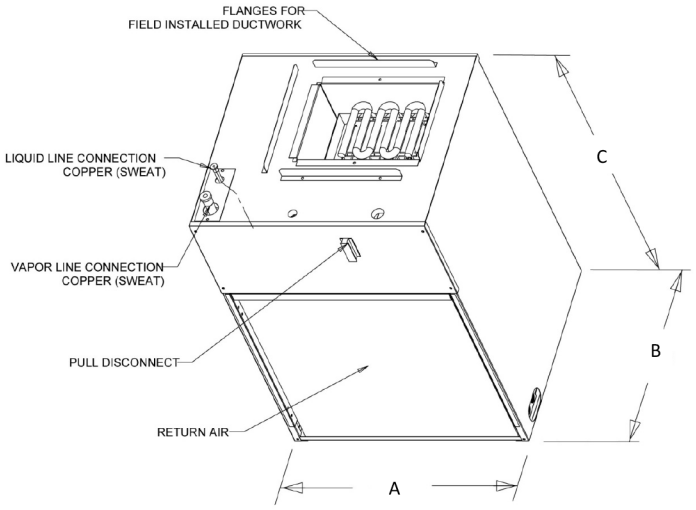
| Unit Size (All have electric heat) | Heating Capacity | | Blower Current (A) | | Total Current (A) | | Minimum Circuit Ampacity (A) | | Maximum Circuit Breaker Size Per Stage (A) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | kW | BTUH | | | | | | | | |
| | 240 V [1] | 240 V [1] | 208 V | 240 V | 208 V | 240 V | 208 V | 240 V | 208 V | 240 V |
| 19 | 0 | 0 | 0.9 | 0.8 | 0.9 | 0.8 | 1.1 | 1 | 15 | 15 |
| | 5 | 17,061 | 0.9 | 0.8 | 19 | 21.6 | 23.7 | 27 | 25 | 30 |
| | 7.5 | 25,591 | 0.9 | 0.8 | 28 | 32.1 | 35 | 40.1 | 35 | 45 |
| | 10 | 34,121 | 0.9 | 0.8 | 37 | 42.5 | 46.3 | 53.1 | 50 | 60 |
| 25 | 0 | 0 | 1.8 | 1.7 | 1.8 | 1.7 | 2.3 | 2.1 | 15 | 15 |
| | 5 | 17,061 | 1.8 | 1.7 | 19.9 | 22.5 | 24.8 | 28.2 | 25 | 30 |
| | 7.5 | 25,591 | 1.8 | 1.7 | 28.9 | 33 | 36.1 | 41.2 | 40 | 45 |
| | 10 | 34,121 | 1.8 | 1.7 | 37.9 | 43.4 | 47.4 | 54.2 | 50 | 60 |
| 31 | 0 | 0 | 2.4 | 2.2 | 2.4 | 2.2 | 3 | 2.8 | 15 | 15 |
| | 5 | 17,061 | 2.4 | 2.2 | 20.5 | 23 | 25.6 | 28.8 | 30 | 30 |
| | 7.5 | 25,591 | 2.4 | 2.2 | 29.5 | 33.5 | 36.9 | 41.8 | 40 | 45 |
| | 10 | 34,121 | 2.4 | 2.2 | 38.5 | 43.9 | 48.1 | 54.8 | 50 | 60 |
| 37 | 0 | 0 | 3.1 | 2.9 | 3.1 | 2.9 | 3.9 | 3.6 | 15 | 15 |
| | 5 | 17,061 | 3.1 | 2.9 | 21.2 | 23.7 | 26.4 | 29.7 | 30 | 30 |
| | 7.5 | 25,591 | 3.1 | 2.9 | 30.2 | 34.2 | 37.7 | 42.7 | 40 | 45 |
| | 10 | 34,121 | 3.1 | 2.9 | 39.2 | 44.6 | 49 | 55.7 | 50 | 60 |
| 39 | 0 | 0 | 3.1 | 2.9 | 3.1 | 2.9 | 3.9 | 3.6 | 15 | 15 |
| | 5 | 17,061 | 3.1 | 2.9 | 21.2 | 23.7 | 26.4 | 29.7 | 30 | 30 |
| | 7.5 | 25,591 | 3.1 | 2.9 | 30.2 | 34.2 | 37.7 | 42.7 | 40 | 45 |
| | 10 | 34,121 | 3.1 | 2.9 | 39.2 | 44.6 | 49 | 55.7 | 50 | 60 |

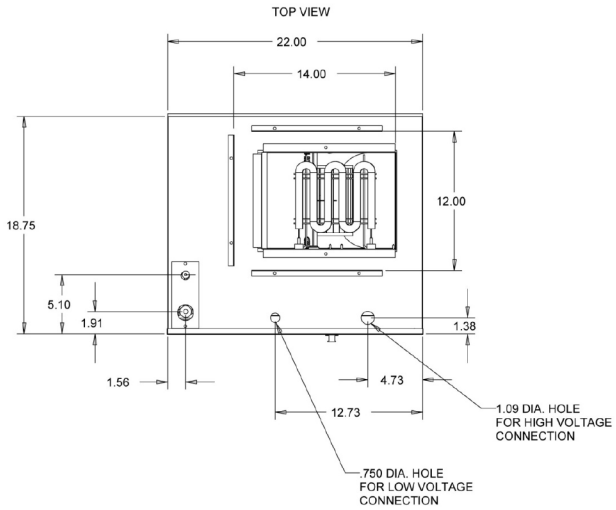
[1] For 208 Volts use 0.751 correction factor for kW & BTUH.

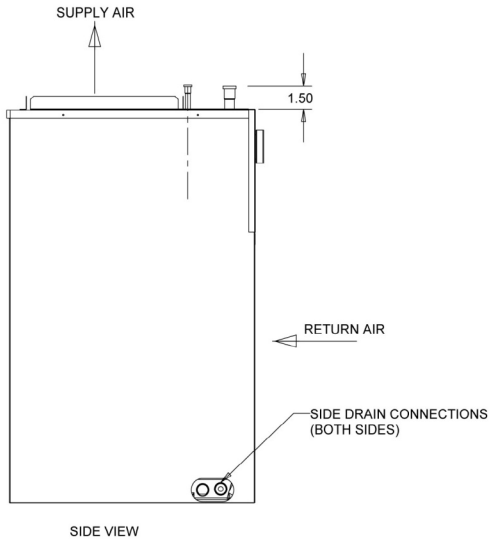
[2] Breaker supplied with heat kit may need to be changed. Verify breaker sizing based on min, circuit ampacity.

## *Dimensions*

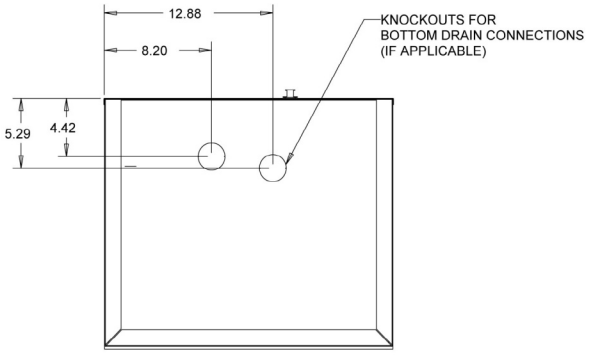
| Air Handler Size | A (in) | B (in) | C (in) |
|---|---|---|---|
| **18-37** | 22 | 18.75 | 31 |
| **39** | 22 | 18.75 | 35.5 |




SIDE VIEW




BOTTOM VIEW




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