



# VL\* SERIES STUD / WALL MOUNT AIR HANDLERS “AAA” ALUMINUM / COPPER DX COIL

## PRODUCT FEATURES



- Vertical Up-Flow Applications
- Front Return Air or Bottom Return
- Fully Insulated Cabinet
- Tabs for Stud or Wall Mounting are Stamped into Cabinet Exterior
- Long Life Aluminum or Copper DX Coils
- Aluminum Fins and End Plates
- 1.0 to 3.0 Ton Cooling Capacity
- Polymer Drain Pan
- 3/4" MPT Primary and Secondary Drains
- 3/8" Liquid Refrigerant Line
- 3/4" Suction Refrigerant Line
- 24 Volt Control Transformer
- 208/230 VAC Operation
- A1L & A2L Compliant

## OPTIONAL FEATURES

- Factory or Field Installed TXV, Heat Pump TXV, and Check Valve
- Lower Coil Panel for Bottom Return
- Front Return Grilles
- Factory Installed Electric Heat, Disconnect, and Float Switch
- \*Freeze-Stat or Enter Water T-Stat
- ECM X-13 Motors

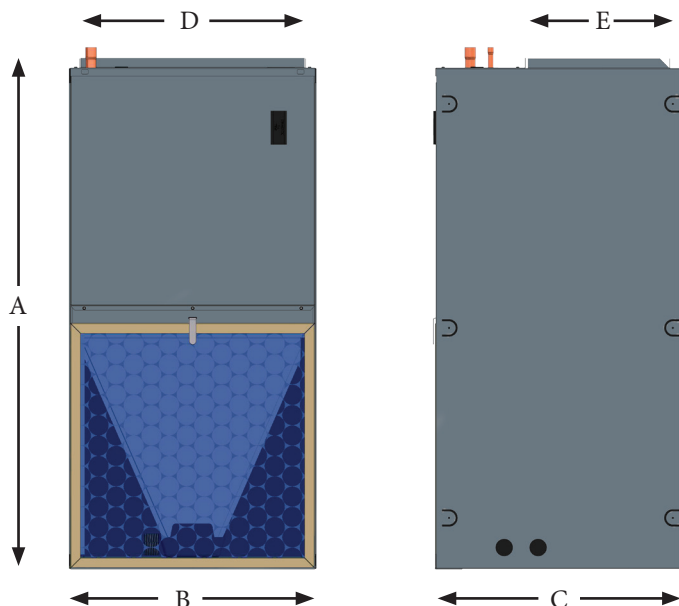


Warranty will be voided if any chemical cleaning products are used on any AllStyle coils. AllStyle suggests water and a soft, bristled brush.



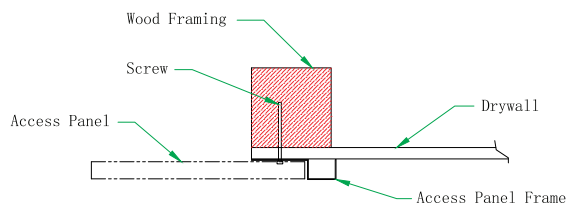


# **VL\* SERIES** **STUD / WALL MOUNT** **AIR HANDLERS** **“AAA” ALUMINUM / COPPER DX COIL**

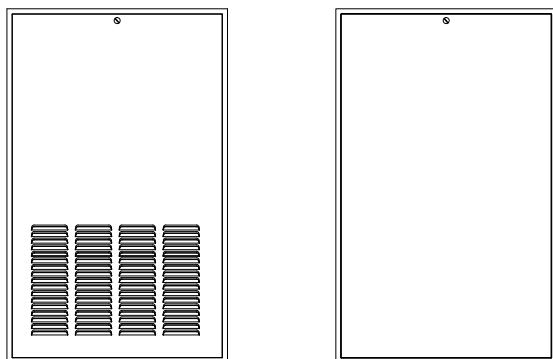


**Cabinet Dimensions**

| Model             | Cabinet Height - A | Cabinet Width - B | Cabinet Depth - C | Plenum Width - D | Plenum Depth - E | Filter Size |
|-------------------|--------------------|-------------------|-------------------|------------------|------------------|-------------|
| VL 18 - 24        | 36.75"             | 18.25"            | 18.25"            | 16.50"           | 10.50"           | 18"x18"x1"  |
| VLD (B,F) 18 - 36 | 40.00"             | 20.00"            | 23.00"            | 18.50"           | 16.00"           | 20"x20"x1"  |
| VLDW (B,F) 18-36  | 40.00"             | 20.00"            | 23.00"            | 18.50"           | 16.00"           | 20"x20"x1"  |
| VLL 30 - 36       | 40.00"             | 24.00"            | 24.00"            | 22.25"           | 18.00"           | 24"x24"x1"  |



Installation Detail



| Optional Return Grilles |        |        |
|-------------------------|--------|--------|
| Model                   | Height | Width  |
| Unit Mounted Grilles    |        |        |
| RTS - 1AS               | 41.75" | 22.75" |
| RTS - 2AS               | 41.50" | 22.50" |
| Wall Mounted Grilles    |        |        |
| RTU - 1AS               | 41.75" | 22.75" |
| RTU - 2AS               | 44.75" | 24.75" |

| Electrical Specifications PSC Motors                                                |                 |        |      |       |              |              |              |              |
|-------------------------------------------------------------------------------------|-----------------|--------|------|-------|--------------|--------------|--------------|--------------|
| Model                                                                               | kW @<br>240 VAC | BTUH   | AMPS |       | MCA<br>Ckt 1 | MCA<br>Ckt 2 | MOP<br>Ckt 1 | MOP<br>Ckt 2 |
|                                                                                     |                 |        | HTR  | Motor |              |              |              |              |
| VL 18 - 24                                                                          | 0               | 0      | 0    | 1.5   | 2            | 0            | 15           | 0            |
| VL 18 - 24                                                                          | 3               | 10,239 | 12.5 | 1.5   | 18           | 0            | 20           | 0            |
| VL 18 - 24                                                                          | 4.8             | 16,382 | 20   | 1.5   | 27           | 0            | 30           | 0            |
| VL 18 - 24                                                                          | 6               | 20,478 | 25   | 1.5   | 33           | 0            | 35           | 0            |
| VL 18 - 24                                                                          | 7.5             | 25,598 | 31.3 | 1.5   | 41           | 0            | 45           | 0            |
| VL 18 - 24                                                                          | 9.6             | 32,765 | 40   | 1.5   | 52           | 0            | 55           | 0            |
| VL* 30 - 36                                                                         | 0               | 0      | 0    | 3     | 4            | 0            | 15           | 0            |
| VL* 30 - 36                                                                         | 3               | 10,239 | 12.5 | 3     | 19           | 0            | 20           | 0            |
| VL* 30 - 36                                                                         | 4.8             | 16,382 | 20   | 3     | 29           | 0            | 30           | 0            |
| VL* 30 - 36                                                                         | 6               | 20,478 | 25   | 3     | 35           | 0            | 35           | 0            |
| VL* 30 - 36                                                                         | 7.5             | 25,598 | 31.3 | 3     | 43           | 0            | 45           | 0            |
| VL* 30 - 36                                                                         | 9.6             | 32,765 | 40   | 3     | 54           | 0            | 60           | 0            |
| Refer to applicable electrical code for correct wire and disconnect sizing          |                 |        |      |       |              |              |              |              |
| 15 & 20 kW Models are factory standard and installed with twin double pole breakers |                 |        |      |       |              |              |              |              |
| Specifications can change without notice                                            |                 |        |      |       |              |              |              |              |

| Blower Performance PSC Motors |        |                 |      |      |      |      |
|-------------------------------|--------|-----------------|------|------|------|------|
| Model                         | Speed  | Static Pressure |      |      |      |      |
|                               |        | 0.1             | 0.2  | 0.3  | 0.4  | 0.5  |
| VL 18                         | Low    | 665             | 615  | 500  | 420  | 340  |
|                               | Medium | 805             | 750  | 650  | 600  | 505  |
|                               | High   | 925             | 850  | 800  | 710  | 600  |
| VL* 18                        | Low    | 745             | 700  | 640  | 580  | 500  |
|                               | Medium | 950             | 900  | 825  | 745  | 650  |
|                               | High   | 1050            | 1005 | 925  | 840  | 750  |
| VL* 24                        | Low    | 745             | 700  | 640  | 580  | 500  |
|                               | Medium | 950             | 900  | 825  | 745  | 650  |
|                               | High   | 1050            | 1005 | 925  | 840  | 750  |
| VL 24                         | Low    | 700             | 660  | 600  | 520  | 430  |
|                               | Medium | 1005            | 965  | 880  | 800  | 710  |
|                               | High   | 1100            | 1060 | 1000 | 920  | 830  |
| VL* 30 - 36                   | Low    | 1080            | 1025 | 950  | 870  | 775  |
|                               | Medium | 1200            | 1160 | 1100 | 1020 | 930  |
|                               | High   | 1315            | 1270 | 1200 | 1125 | 1040 |

| Electrical Specifications ECM X-13 Motors |                      |        |      |       |               |              |              |              |              |
|-------------------------------------------|----------------------|--------|------|-------|---------------|--------------|--------------|--------------|--------------|
| Model                                     | HTR. kW<br>@ 240 VAC | BTUH   | AMPS |       | Total<br>AMPS | MCA<br>CKT 1 | MCA<br>CKT 2 | MOP<br>CKT 1 | MOP<br>CKT 2 |
|                                           |                      |        | HTR. | Motor |               |              |              |              |              |
| VL 18-24                                  | 0                    | 0      | 0    | 2.8   | 2.8           | 4            | 0            | 15           | 0            |
| VL 18-24                                  | 3                    | 10,239 | 12.5 | 2.8   | 15.3          | 19           | 0            | 20           | 0            |
| VL 18-24                                  | 4.8                  | 16,382 | 20   | 2.8   | 22.8          | 29           | 0            | 30           | 0            |
| VL 18-24                                  | 6                    | 20,478 | 25   | 2.8   | 27.8          | 35           | 0            | 40           | 0            |
| VL 18-24                                  | 7.5                  | 25,598 | 31.3 | 2.8   | 34.1          | 43           | 0            | 45           | 0            |
| VL 18-24                                  | 9.6                  | 32,765 | 40   | 2.8   | 42.8          | 54           | 0            | 60           | 0            |
| VL* 30-36                                 | 0                    | 0      | 0    | 4     | 4             | 5            | 0            | 15           | 0            |
| VL* 30-36                                 | 3                    | 10,239 | 12.5 | 4     | 16.5          | 21           | 0            | 25           | 0            |
| VL* 30-36                                 | 4.8                  | 16,382 | 20   | 4     | 24            | 30           | 0            | 35           | 0            |
| VL* 30-36                                 | 6                    | 20,478 | 25   | 4     | 29            | 36           | 0            | 40           | 0            |
| VL* 30-36                                 | 7.5                  | 25,598 | 31.3 | 4     | 35.3          | 44           | 0            | 45           | 0            |
| VL* 30-36                                 | 9.6                  | 32,765 | 40   | 4     | 44            | 55           | 0            | 60           | 0            |