# VERT-I-PAK® Product Profile

## Single Package Vertical Air Conditioners and Heat Pumps

### VERT-I-PAK® A-SERIES

**9,000 / 12,000 / 18,000 / 24,000 Btu/h**

New smaller closet dimensions. **NEW!**

Compact and lightweight– weighs as little as 125 lbs.

Unique free-floating chassis.

10" crimped and beaded duct-collar ready to attach flex-duct.

Easy to connect right, left or rear drain connection.

Optional seacoast protection for harsh coastal environments.

Easy to install front, left or right hand into closet.


### VERT-I-PAK® B-SERIES

**18,000 / 24,000 / 30,000 / 36,000**
**42,000 / 49,000 / 60,000 Btu/h**

Indoor return air and outdoor air can be ducted to allow installation in an interior closet.

Comes shipped with a preformed discharge flange.

Cooling mode freeze protection.

Heat pump operation down to 0°F.

Easy service access from front of unit.


## Standard Features

Completely self-contained unit.

Available in heat pump or electric heat.

No outside condensing unit, eliminating the need for external electrical wiring, landscaping and vandalism barriers.

Easy installation; unit is wired and charged at the factory.

No refrigerant lines running from floor to floor.

All units are shipped with return air filter installed.

An individual packaged unit can be used to heat or cool multiple rooms.

Cabinets are fully insulated for improved sound characteristics and unit performance.

Safety power disconnect.

Remote thermostat-ready 24-volt transformer.

Complete line of accessories.

San Antonio, TX
USA
Since 1883

## VERT-I-PAK® A-SERIES

### VEA/VHA9K-24K

| | VEA09K | VEA12K | VEA18K | VEA24K | VHA09K | VHA12K | VHA18K | VHA24K |
|---|---|---|---|---|---|---|---|---|
| **COOLING DATA** | | | | | | | | |
| Cooling Btu/h | 9500/9300 | 11800/11500 | 18000/17800 | 24000 | 9500/9300 | 11800/11500 | 18000/17800 | 23500 |
| Cooling Power (W) | 880 | 1093 | 2070 | 2526 | 905 | 1124 | 2070 | 2474 |
| EER | 10.8 | 10.8 | 8.7 | 9.5 | 10.5 | 10.5 | 8.7 | 9.5 |
| Sensible Heat Ratio | 0.74 | 0.72 | 0.70 | 0.70 | 0.74 | 0.72 | 0.70 | 0.70 |
| **HEAT PUMP DATA** | | | | | | | | |
| Heating Btu/h | N/A | N/A | N/A | N/A | 8500/8300 | 10600/10400 | 15700/15500 | 22500 |
| COP @ 47°F | N/A | N/A | N/A | N/A | 3.0 | 3.2 | 3.0 | 3 |
| Heating Power (W) | N/A | N/A | N/A | N/A | 830 | 971 | 1705 | 2200 |
| Heating Current (A) | N/A | N/A | N/A | N/A | 4.4/4.9 | 5.5/6.1 | 9.2/10.2 | 11.4 |
| **ELECTRICAL DATA** | | | | | | | | |
| Voltage (1 Phase, 60 Hz) | 230/208 | 230/208 | 230/208 | 230/208 | 230/208 | 230/208 | 230/208 | 230/208 |
| Volt Range | 253-198 | 253-198 | 253-198 | 253-198 | 253-198 | 253-198 | 253-198 | 253-198 |
| Cooling Current (A) | 4.1/4.3 | 4.9/5.3 | 9.2/10.2 | 11.2/12.4 | 4.2/4.4 | 5.0/5.5 | 9.2/10.2 | 11.2/12.4 |
| Amps L.R. | 21 | 21 | 47 | 68 | 21 | 21 | 47 | 68 |
| Amps F.L. | 3.7 | 4.5 | 7.9 | 10.2 | 3.7 | 4.5 | 7.9 | 10.2 |
| Indoor Motor (HP) | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| Indoor Motor (A) | 1.2 | 1.2 | 1.4 | 2 | 1.2 | 1.2 | 1.4 | 2 |
| Outdoor Motor (HP) | N/A | N/A | N/A | 1/4 | N/A | N/A | N/A | 1/4 |
| Outdoor Motor (A) | N/A | N/A | N/A | 2 | N/A | N/A | N/A | 2 |
| **AIRFLOW DATA** | | | | | | | | |
| Indoor CFM* | 300 | 350 | 550 | 750 | 300 | 375 | 550 | 750 |
| Vent CFM | 60 | 60 | 60 | 80 | 60 | 60 | 60 | 80 |
| Max. ESP | .3" | .3" | .3" | .3" | .3" | .3" | .3" | .3" |
| **PHYSICAL DATA** | | | | | | | | |
| Dimensions (W x D x H) | 23 x 23 x 32 | 23 x 23 x 32 | 23 x 23 x 32 | 23 x 23 x 47 | 23 x 23 x 32 | 23 x 23 x 32 | 23 x 23 x 32 | 23 x 23 x 47 |
| Net Weight (Lbs) | 114 | 124 | 144 | 167 | 114 | 125 | 144 | 167 |
| Shipping Weight (Lbs) | 125 | 135 | 155 | 180 | 125 | 135 | 155 | 180 |
| R-22 Charge | 25 | 29 | 42 | 68.5 | 23.5 | 27 | 42 | 63.5 |

* Normal Value Wet Coil @ .1" ESP.

## ELECTRIC HEAT DATA

### VEA/VHA09,12

| | VE/VHA09 | | | VE/VHA12 | | |
|---|---|---|---|---|---|---|
| Heater Watts | 2500/2050 | 3400/2780 | 5000/4090 | 2500/2050 | 3400/2780 | 5000/4090 |
| Voltage | 230/208 | | | 230/208 | | |
| Heating Btu/h | 8500/7000 | 11600/9500 | 17000/13900 | 8500/7000 | 11600/9500 | 17000/13900 |
| Heating Current (Amps) | 10.6/9.3 | 14.5/12.5 | 20.9/18.2 | 10.6/9.3 | 14.5/12.5 | 20.9/18.2 |
| Minimum Circuit Ampacity | 15 | 19.9 | 27.9 | 15 | 19.9 | 27.9 |
| Branch Circuit Fuse (Amps) | 15 | 20 | 30 | 15 | 20 | 30 |
| Basic Heater Size | 2.5 Kw | 3.4 Kw | 5.0 Kw | 2.5 Kw | 3.4 Kw | 5.0 Kw |

### VEA/VHA18,24

| | VE/VHA18 | | | VE/VHA24 | | | | |
|---|---|---|---|---|---|---|---|---|
| Heater Watts | 2500/2050 | 3400/2780 | 5000/4090 | 2500/2050 | 3400/2780 | 5000/4090 | 7500/6135 | 10000/8180 |
| Voltage | 230/208 | | | 230/208 | | | | |
| Heating Btu/h | 8500/7000 | 11600/9500 | 17000/13900 | 8500/7000 | 11600/9500 | 17000/13900 | 25598/20939 | 34130/27918 |
| Heating Current (Amps) | 10.6/9.3 | 14.5/12.5 | 20.9/18.2 | 10.9/9.9 | 14.8/13.4 | 21.7/19.7 | 32.6/29.5 | 43.5/39.3 |
| Minimum Circuit Ampacity | 15 | 19.9 | 27.9 | 17.2/15.9 | 22.1/20.3 | 30.7/28.1 | 44.3/40.4 | 57.9/52.7 |
| Branch Circuit Fuse (Amps) | 15 | 20 | 30 | 25/25 | 25/25 | 35/30 | 45/45 | 60/60 |
| Basic Heater Size | 2.5 Kw | 3.4 Kw | 5.0 Kw | 2.5 Kw | 3.4 Kw | 5.0 Kw | 7.5 Kw | 10.0 Kw |

# VERT-I-PAK® A-SERIES

## VEA - Extended Cooling Performance

| OUTDOOR DRY BULB TEMP. (DEGREES F AT 40% R.H.) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 75 | | | 85 | | | 95 | | | 105 | | | 110 | | |
| INDOOR WET BULB TEMP. (DEGREES F AT 80 F D.B.) | | | | | | | | | | | | | | | | |
| | | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 |
| VEA09 | Btu/h | 11172 | 10745 | 9947 | 10640 | 10032 | 9253 | 10222 | **9500** | 8408 | 9576 | 8503 | 7496 | 8522 | 7334 | 6479 |
| | Watts | 718 | 730 | 737 | 782 | 790 | 800 | 880 | **880** | 880 | 951 | 950 | 953 | 1038 | 1038 | 1042 |
| | Amps | 3.4 | 3.4 | 3.5 | 3.7 | 3.7 | 3.7 | 4.1 | **4.10** | 4.1 | 4.4 | 4.4 | 4.4 | 4.8 | 4.8 | 4.8 |
| | SHR | 0.51 | 0.69 | 0.93 | 0.52 | 0.71 | 0.95 | 0.52 | **0.74** | 0.95 | 0.53 | 0.78 | 0.96 | 0.56 | 0.83 | 0.95 |
| VEA12 | Btu/h | 13877 | 13346 | 12355 | 13216 | 12461 | 11493 | 12697 | **11800** | 10443 | 11894 | 10561 | 9310 | 10585 | 9110 | 8048 |
| | Watts | 892 | 906 | 916 | 972 | 982 | 994 | 1093 | **1093** | 1093 | 1182 | 1180 | 1184 | 1289 | 1289 | 1294 |
| | Amps | 4.1 | 4.1 | 4.1 | 4.4 | 4.4 | 4.4 | 4.9 | **4.90** | 4.9 | 5.3 | 5.3 | 5.3 | 5.8 | 5.8 | 5.8 |
| | SHR | 0.49 | 0.67 | 0.9 | 0.5 | 0.7 | 0.92 | 0.51 | **0.72** | 0.92 | 0.52 | 0.76 | 0.93 | 0.54 | 0.81 | 0.92 |
| VEA18 | Btu/h | 21168 | 20358 | 18846 | 20160 | 19008 | 17532 | 19368 | **18000** | 15930 | 18144 | 16110 | 14202 | 16146 | 13896 | 12276 |
| | Watts | 1689 | 1716 | 1735 | 1840 | 1859 | 1882 | 2070 | **2070** | 2070 | 2238 | 2236 | 2242 | 2441 | 2441 | 2451 |
| | Amps | 7.6 | 7.7 | 7.7 | 8.2 | 8.2 | 8.3 | 9.2 | **9.20** | 9.2 | 9.9 | 9.9 | 9.9 | 10.8 | 10.8 | 10.8 |
| | SHR | 0.48 | 0.65 | 0.88 | 0.49 | 0.68 | 0.89 | 0.49 | **0.70** | 0.9 | 0.5 | 0.74 | 0.9 | 0.53 | 0.79 | 0.9 |
| VEA24 | Btu/h | 28224 | 27144 | 25128 | 26880 | 25344 | 23376 | 25824 | **24000** | 21240 | 24192 | 21480 | 18936 | 21528 | 18528 | 16368 |
| | Watts | 2061 | 2094 | 2117 | 2246 | 2268 | 2296 | 2526 | **2526** | 2526 | 2731 | 2728 | 2736 | 2978 | 2978 | 2991 |
| | Amps | 9.3 | 9.3 | 9.4 | 10 | 10 | 10.1 | 11.1 | **11.20** | 11.3 | 12.1 | 12.1 | 12.1 | 13.1 | 13.1 | 13.2 |
| | SHR | 0.48 | 0.65 | 0.88 | 0.49 | 0.68 | 0.89 | 0.49 | **0.70** | 0.9 | 0.5 | 0.74 | 0.9 | 0.53 | 0.79 | 0.9 |

* Operation above these listed temperatures may result in lowered performance or unit fatigue.

**RATING POINT ARI 310/380**

## VHA - Extended Cooling Performance

| OUTDOOR DRY BULB TEMP. (DEGREES F AT 40% R.H.) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 75 | | | 85 | | | 95 | | | 105 | | | 110 | | |
| INDOOR WET BULB TEMP. (DEGREES F AT 80 F D.B.) | | | | | | | | | | | | | | | | |
| | | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 |
| VHA09 | Btu/h | 11172 | 10745 | 9947 | 10640 | 10032 | 9253 | 10222 | **9500** | 8408 | 9576 | 8503 | 7496 | 8522 | 7334 | 6479 |
| | Watts | 738 | 750 | 758 | 805 | 813 | 823 | 905 | **905** | 905 | 978 | 977 | 980 | 1067 | 1067 | 1072 |
| | Amps | 3.5 | 3.5 | 3.5 | 3.7 | 3.8 | 3.8 | 4.2 | **4.20** | 4.2 | 4.5 | 4.5 | 4.5 | 4.9 | 4.9 | 4.9 |
| | SHR | 0.51 | 0.69 | 0.93 | 0.52 | 0.71 | 0.95 | 0.52 | **0.74** | 0.95 | 0.53 | 0.78 | 0.96 | 0.56 | 0.83 | 0.95 |
| VHA12 | Btu/h | 13877 | 13346 | 12355 | 13216 | 12461 | 11493 | 12697 | **11800** | 10443 | 11894 | 10561 | 9310 | 10585 | 9110 | 8048 |
| | Watts | 917 | 932 | 942 | 999 | 1009 | 1022 | 1124 | **1124** | 1124 | 1215 | 1214 | 1217 | 1325 | 1325 | 1331 |
| | Amps | 4.1 | 4.2 | 4.2 | 4.5 | 4.5 | 4.5 | 5 | **5.00** | 5 | 5.4 | 5.4 | 5.4 | 5.9 | 5.9 | 5.9 |
| | SHR | 0.49 | 0.67 | 0.9 | 0.5 | 0.7 | 0.92 | 0.51 | **0.72** | 0.92 | 0.52 | 0.76 | 0.93 | 0.54 | 0.81 | 0.92 |
| VHA18 | Btu/h | 21168 | 20358 | 18846 | 20160 | 19008 | 17532 | 19368 | **18000** | 15930 | 18144 | 16110 | 14202 | 16146 | 13896 | 12276 |
| | Watts | 1689 | 1716 | 1735 | 1840 | 1859 | 1882 | 2070 | **2070** | 2070 | 2238 | 2236 | 2242 | 2441 | 2441 | 2451 |
| | Amps | 7.6 | 7.7 | 7.7 | 8.2 | 8.2 | 8.3 | 9.2 | **9.20** | 9.2 | 9.9 | 9.9 | 9.9 | 10.8 | 10.8 | 10.8 |
| | SHR | 0.48 | 0.65 | 0.88 | 0.49 | 0.68 | 0.89 | 0.49 | **0.70** | 0.9 | 0.5 | 0.74 | 0.9 | 0.53 | 0.79 | 0.9 |
| VHA24 | Btu/h | 27636 | 26579 | 24605 | 26320 | 24816 | 22889 | 25286 | **23500** | 20798 | 23688 | 21033 | 18542 | 21080 | 18142 | 16027 |
| | Watts | 2019 | 2051 | 2073 | 2199 | 2222 | 2249 | 2474 | **2474** | 2474 | 2674 | 2672 | 2679 | 2917 | 2917 | 2929 |
| | Amps | 9.3 | 9.3 | 9.4 | 10 | 10 | 10.1 | 11.1 | **11.2** | 11.3 | 12.1 | 12.1 | 12.1 | 13.1 | 13.1 | 13.2 |
| | SHR | 0.48 | 0.65 | 0.88 | 0.49 | 0.68 | 0.89 | 0.49 | **0.7** | 0.9 | 0.5 | 0.74 | 0.9 | 0.53 | 0.79 | 0.9 |

* Operation above these listed temperatures may result in lowered performance or unit fatigue.

**RATING POINT ARI 310/380**

# VERT-I-PAK® B-SERIES

## VEB18K-60K

| | VEB18K | VEB24K | VEB30K | VEB36K | VEB42K | VEB49K | VEB60K |
|---|---|---|---|---|---|---|---|
| **COOLING DATA** | | | | | | | |
| Cooling Btu/h | 17000 | 22000 | 30000 | 35000 | 42000 | 48500 | 58000 |
| SEER | 10.0 | 10.0 | 10.0 | 10.0 | 9.8 | 9.8 | 9.9 |
| Sensible Heat Ratio | 0.78 | 0.75 | 0.70 | 0.70 | 0.72 | 0.69 | 0.72 |
| **ELECTRICAL DATA** | | | | | | | |
| Voltage (1 Phase, 60 Hz) | 230/208 | 230/208 | 230/208 | 230/208 | 230/208 | 230/208 | 230/208 |
| Volt Range | 253-198 | 253-198 | 253-198 | 253-198 | 253-198 | 253-198 | 253-198 |
| Compressor RLA | 7.3 | 9.3 | 12.0 | 15.0 | 19.0 | 22.0 | 25.0 |
| Compressor LRA | 42.5 | 56 | 72.5 | 88 | 104 | 129 | 169 |
| Indoor Motor (HP) | 1/3 | 1/3 | 1/3 | 1/3 | 1/2 | 1/2 | 1/2 |
| Indoor Motor (A) | 1.0 | 1.0 | 1.8 | 2.5 | 3.0 | 3.0 | 3.1 |
| Outdoor Motor (HP) | 1/3 | 1/3 | 1/3 | 1/2 | 3/4 | 2 @ 1/3 | 2 @ 1/3 |
| Outdoor Motor (A) | 1.4 | 1.4 | 2.2 | 3.0 | 4.7 | 5.0 | 5.0 |
| Min Ckt Amps* | 14.0 | 16.7 | 22.8 | 27.9 | 33.0 | 40.5 | 49.0 |
| Branch Ckt Fuse* | 20 | 25 | 30 | 40 | 50 | 60 | 60 |
| **PHYSICAL DATA** | | | | | | | |
| Dimensions (W x D x H) | 30 x 21 x 68 | 30 x 21 x 68 | 30 x 21 x 68 | 30 x 21 x 68 | 38 x 28 x 68 | 38 x 28 x 68 | 45 x 30½ x 77 |
| Shipping Weight (Lbs) | 320 | 320 | 330 | 340 | 440 | 460 | 540 |
| R-22 Charge | 104 | 72 | 72 | 92 | 120 | 152 | 144 |

## VHB18K-60K

| | **VHB18K** | **VHB24K** | **VHB30K** | **VHB36K** | **VHB42K** | **VHB49K** | **VHB60K** |
|---|---|---|---|---|---|---|---|
| **COOLING DATA** | | | | | | | |
| Cooling Btu/h | 17000 | 22000 | 30000 | 35000 | 42000 | 48500 | 55000 |
| SEER | 10.0 | 10.0 | 10.0 | 10.0 | 9.7 | 9.8 | 9.9 |
| Sensible Heat Ratio | 0.78 | 0.75 | 0.70 | 0.70 | 0.72 | 0.69 | 0.72 |
| **HEAT PUMP DATA** | | | | | | | |
| Heating Btu/h | 17000 | 22000 | 26400 | 34000 | 40000 | 49000 | 59000 |
| HSPF | 7.0 | 7.2 | 7.2 | 6.8 | 6.7 | 6.7 | 6.6 |
| COP @ 47F | 3.0 | 3.2 | 3.0 | 3.0 | 2.8 | 2.9 | 2.9 |
| Heating Power (W) | 1650 | 2000 | 2600 | 3300 | 4000 | 4800 | 6180 |
| Heating Current (A) | 7.3 | 9.3 | 12.0 | 15.0 | 19.0 | 22.0 | 28.0 |
| **ELECTRICAL DATA** | | | | | | | |
| Voltage (1 Phase, 60 Hz) | 230/208 | 230/208 | 230/208 | 230/208 | 230/208 | 230/208 | 230/208 |
| Volt Range | 253-198 | 253-198 | 253-198 | 253-198 | 253-198 | 253-198 | 253-198 |
| Compressor RLA | 7.3 | 9.3 | 12.0 | 15.0 | 19.0 | 22.0 | 29.0 |
| Compressor LRA | 42.5 | 56 | 72.5 | 88 | 104 | 129 | 169 |
| Indoor Motor (HP) | 1/3 | 1/3 | 1/3 | 1/3 | 1/2 | 1/2 | 1/2 |
| Indoor Motor (A) | 1.0 | 1.0 | 1.8 | 2.5 | 3.0 | 3.0 | 3.1 |
| Outdoor Motor (HP) | 1/3 | 1/3 | 1/3 | 1/2 | 3/4 | 2 @ 1/3 | 2 @ 1/3 |
| Outdoor Motor (A) | 1.4 | 1.4 | 2.2 | 3.0 | 4.7 | 5.0 | 5.0 |
| Min Ckt Amps* | 14.0 | 16.7 | 22.8 | 27.9 | 33.0 | 40.5 | 49.0 |
| Branch Ckt Fuse* | 20 | 25 | 30 | 40 | 50 | 60 | 60 |
| **PHYSICAL DATA** | | | | | | | |
| Dimensions (W x D x H) | 30 x 21 x 68 | 30 x 21 x 68 | 30 x 21 x 68 | 30 x 21 x 68 | 38 x 28 x 68 | 38 x 28 x 68 | 45 x 30½ x 77 |
| Shipping Weight (Lbs) | 320 | 320 | 330 | 340 | 440 | 460 | 540 |
| R-22 Charge | 104 | 72 | 72 | 92 | 120 | 152 | 304 |

*MCA for cooling and heat pump circuit only.

# VERT-I-PAK® B-SERIES

## VEB / VHB - Extended Cooling Performance

| | | OUTDOOR DRY BULB TEMP. (DEGREES F AT 40% R.H.) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 75 | | | 85 | | | 95 | | | 105 | | | 110 | | | 115 | | |
| | | INDOOR WET BULB TEMP. (DEGREES F AT 80 F D.B.) | | | | | | | | | | | | | | | | | |
| | | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 | 72 | 67 | 62 |
| VEB18 / VHB18 | Btu/h | 20420 | 19640 | 18160 | 18860 | 18140 | 16780 | 17680 | 17000 | 15730 | 16390 | 15760 | 14580 | 15700 | 15100 | 13960 | 14980 | 14410 | 13330 |
| | Watts | 1549 | 1574 | 1590 | 1781 | 1810 | 1829 | 1945 | 1977 | 1997 | 2116 | 2151 | 2172 | 2205 | 2240 | 2263 | 2295 | 2332 | 2355 |
| | Amps | 6.9 | 7.0 | 7.1 | 7.9 | 7.9 | 8.0 | 8.6 | 8.7 | 8.8 | 9.4 | 9.5 | 9.6 | 9.9 | 10.0 | 10.1 | 10.4 | 10.5 | 10.6 |
| | SHR | 0.54 | 0.75 | 0.89 | 0.58 | 0.79 | 0.95 | 0.59 | 0.81 | 0.97 | 0.60 | 0.82 | 0.98 | 0.60 | 0.82 | 0.98 | 0.59 | 0.81 | 0.97 |
| VEB24 / VHB24 | Btu/h | 29130 | 28010 | 25910 | 25130 | 24160 | 22350 | 22880 | 22000 | 20350 | 20970 | 20160 | 18650 | 20140 | 19360 | 17910 | 19390 | 18640 | 17250 |
| | Watts | 2019 | 2052 | 2073 | 2249 | 2286 | 2309 | 2432 | 2472 | 2497 | 2639 | 2682 | 2709 | 2751 | 2796 | 2824 | 2869 | 2916 | 2945 |
| | Amps | 9.5 | 9.6 | 9.7 | 10.2 | 10.3 | 10.4 | 11.0 | 11.1 | 11.2 | 12.0 | 12.1 | 12.3 | 12.6 | 12.8 | 12.9 | 13.3 | 13.4 | 13.6 |
| | SHR | 0.54 | 0.73 | 0.88 | 0.55 | 0.75 | 0.90 | 0.55 | 0.75 | 0.91 | 0.55 | 0.76 | 0.91 | 0.55 | 0.76 | 0.91 | 0.55 | 0.76 | 0.91 |
| VEB30 / VHB30 | Btu/h | 36020 | 34630 | 32040 | 33290 | 32010 | 29610 | 31200 | 30000 | 27750 | 28880 | 27770 | 25690 | 27640 | 26580 | 24590 | 26340 | 25330 | 23430 |
| | Watts | 2755 | 2800 | 2828 | 3027 | 3076 | 3107 | 3264 | 3317 | 3350 | 3545 | 3603 | 3639 | 3703 | 3763 | 3800 | 3871 | 3934 | 3973 |
| | Amps | 12.6 | 12.7 | 12.8 | 13.4 | 13.6 | 13.7 | 14.5 | 14.6 | 14.7 | 15.8 | 16.0 | 16.1 | 16.6 | 16.8 | 17.0 | 17.5 | 17.7 | 17.9 |
| | SHR | 0.48 | 0.65 | 0.79 | 0.47 | 0.65 | 0.78 | 0.48 | 0.66 | 0.79 | 0.49 | 0.68 | 0.81 | 0.50 | 0.69 | 0.83 | 0.52 | 0.71 | 0.85 |
| VEB36 / VHB36 | Btu/h | 43610 | 41940 | 38790 | 39060 | 37560 | 34740 | 36400 | 35000 | 32380 | 34050 | 32740 | 30280 | 32980 | 31720 | 29340 | 32000 | 30770 | 28460 |
| | Watts | 3491 | 3548 | 3583 | 3693 | 3753 | 3791 | 3959 | 4023 | 4064 | 4330 | 4400 | 4444 | 4555 | 4629 | 4675 | 4806 | 4884 | 4933 |
| | Amps | 15.3 | 15.4 | 15.6 | 17.5 | 17.7 | 17.9 | 20.9 | 21.1 | 21.3 | 25.8 | 26.1 | 26.3 | 28.8 | 29.1 | 29.4 | 32.2 | 32.5 | 32.9 |
| | SHR | 0.47 | 0.64 | 0.77 | 0.49 | 0.67 | 0.80 | 0.50 | 0.69 | 0.83 | 0.52 | 0.71 | 0.85 | 0.52 | 0.72 | 0.86 | 0.53 | 0.73 | 0.87 |
| VEB42 / VHB42 | Btu/h | 52220 | 50210 | 46450 | 47170 | 45360 | 41960 | 43680 | 42000 | 38850 | 40090 | 38550 | 35660 | 38260 | 36790 | 34030 | 36400 | 35000 | 32380 |
| | Watts | 4317 | 4387 | 4431 | 4647 | 4722 | 4770 | 4973 | 5054 | 5104 | 5384 | 5472 | 5527 | 5622 | 5713 | 5770 | 5880 | 5976 | 6036 |
| | Amps | 20.0 | 20.2 | 20.4 | 21.3 | 21.6 | 21.8 | 22.8 | 23.0 | 23.2 | 24.6 | 24.9 | 25.1 | 25.7 | 26.0 | 26.2 | 26.9 | 27.2 | 27.5 |
| | SHR | 0.50 | 0.69 | 0.83 | 0.53 | 0.72 | 0.86 | 0.54 | 0.74 | 0.89 | 0.55 | 0.76 | 0.91 | 0.56 | 0.77 | 0.92 | 0.57 | 0.78 | 0.94 |
| VEB48 / VHB48 | Btu/h | 55180 | 53060 | 49080 | 52740 | 50710 | 46910 | 50440 | 48500 | 44860 | 47610 | 45780 | 42340 | 45990 | 44220 | 40900 | 44240 | 42530 | 39340 |
| | Watts | 4679 | 4755 | 4803 | 5053 | 5136 | 5187 | 5449 | 5538 | 5593 | 5963 | 6059 | 6120 | 6263 | 6365 | 6429 | 6593 | 6700 | 6767 |
| | Amps | 20.4 | 20.6 | 20.8 | 23.0 | 23.2 | 23.4 | 24.8 | 25.1 | 25.4 | 26.9 | 27.2 | 27.4 | 28.0 | 28.3 | 28.5 | 29.1 | 29.4 | 29.7 |
| | SHR | 0.50 | 0.68 | 0.82 | 0.51 | 0.70 | 0.84 | 0.51 | 0.70 | 0.85 | 0.52 | 0.71 | 0.85 | 0.51 | 0.71 | 0.85 | 0.51 | 0.70 | 0.84 |
| VEB60 | Btu/h | 62810 | 60390 | 55860 | 62220 | 59830 | 55340 | 60320 | 58000 | 53650 | 57220 | 55020 | 50890 | 55220 | 53090 | 49110 | 52910 | 50880 | 47060 |
| | Watts | 5344 | 5431 | 5485 | 6002 | 6100 | 6161 | 6523 | 6630 | 6696 | 7111 | 7226 | 7299 | 7429 | 7550 | 7625 | 7764 | 7890 | 7969 |
| | Amps | 26.1 | 26.3 | 26.6 | 26.2 | 26.5 | 26.7 | 26.7 | 27.0 | 27.2 | 27.4 | 27.7 | 28.0 | 27.9 | 28.2 | 28.5 | 28.5 | 28.8 | 29.1 |
| | SHR | 0.48 | 0.65 | 0.78 | 0.51 | 0.69 | 0.83 | 0.52 | 0.71 | 0.85 | 0.52 | 0.71 | 0.86 | 0.52 | 0.71 | 0.86 | 0.52 | 0.71 | 0.85 |
| VHB60 | Btu/h | 62310 | 59710 | 55000 | 60610 | 58280 | 53910 | 57200 | 55000 | 50880 | 53460 | 51410 | 47550 | 51470 | 49490 | 45780 | 49400 | 47500 | 43940 |
| | Watts | 5149 | 5232 | 5285 | 5788 | 5882 | 5941 | 6293 | 6395 | 6459 | 6859 | 6971 | 7041 | 7166 | 7282 | 7355 | 7488 | 7610 | 7686 |
| | Amps | 25.9 | 26.1 | 26.4 | 27.1 | 27.4 | 27.6 | 28.7 | 29.0 | 29.3 | 31.0 | 31.3 | 31.6 | 32.3 | 32.7 | 33.0 | 33.9 | 34.2 | 34.5 |
| | SHR | 0.47 | 0.65 | 0.78 | 0.51 | 0.70 | 0.84 | 0.53 | 0.72 | 0.86 | 0.53 | 0.73 | 0.87 | 0.53 | 0.72 | 0.87 | 0.52 | 0.72 | 0.86 |
| | | | | | | | | RATING POINT ARI 210/240 | | | | | | | | | | | |

## Indoor/Outdoor Blower Air Flow, SCFM

| | ESP | Rated | 0.0" | 0.1" | 0.2" | 0.3" | 0.4" | 0.5" |
|---|---|---|---|---|---|---|---|---|
| **VEB18 / VHB18** | Indoor | **630** | N/A | 850 | 750 | 630 | 550 | *450* |
| **VEB18 / VHB18** | Outdoor | **1160** | 1160 | 1080 | 990 | *920* | N/A | N/A |
| **VEB24 / VHB24** | Indoor | **800** | N/A | 890 | 800 | 720 | 650 | *540* |
| **VEB24 / VHB24** | Outdoor | **1160** | 1160 | 1080 | 990 | *920* | N/A | N/A |
| **VEB30 / VHB30** | Indoor | **1000** | N/A | 1070 | 1000 | 940 | 830 | *720* |
| **VEB30 / VHB30** | Outdoor | **1300** | 1300 | 1227 | 1131 | *1026* | N/A | N/A |
| **VEB36 / VHB36** | Indoor | **1120** | N/A | 1220 | 1120 | 1050 | 990 | *860* |
| **VEB36 / VHB36** | Outdoor | **1600** | 1600 | 1550 | 1480 | 1420 | N/A | N/A |
| **VEB42 / VHB42** | Indoor | **1400** | N/A | 1610 | 1570 | 1510 | 1470 | 1400 |
| **VEB42 / VHB42** | Outdoor | **2100** | 2100 | 2000 | 1900 | 1800 | N/A | N/A |
| **VEB49 / VHB49** | Indoor | **1500** | N/A | 1610 | 1570 | 1510 | 1470 | 1400 |
| **VEB49 / VHB49** | Outdoor | **2400** | 2400 | 2300 | 2200 | 2100 | N/A | N/A |
| **VEB60 / VHB60** | Indoor | **1800** | N/A | 2040 | 1980 | 1900 | 1800 | 1750 |
| **VEB60 / VHB60** | Outdoor | **2600** | 2600 | 2550 | 2450 | 2350 | N/A | N/A |

Bold figures indicate the standard rated airflow. Indoor Airflow values were measured with wet coil. Outdoor airflow values were measured with dry coil.

# VERT-I-PAK® B-SERIES

## Air Conditioners

| | | | | | | Multiple Circuits | | | | | | | | Single Circuit | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Factory Circuit Breakers | Nom. Capacity | Voltage - Hz - Ph | Voltage Range | MCA | | HACR / Max Breaker Size | | Wire Size (field) | | Ground Wire Size (field) | | MCA | HACR / Max Breaker Size | Wire Size (field) | Ground Wire Size (field) |
| | | | | | | Ckt 1 | Ckt 2 | Ckt 1 | Ckt 2 | Ckt 1 | Ckt 2 | Ckt 1 | Ckt 2 | Ckt 1 | Ckt 1 | Ckt 1 | Ckt 1 |
| VEB18K | 00 | 1 | 0 | 230/208-60-1 | 198-253 | 14 | N/A | 20 | N/A | 12 | N/A | 12 | N/A | 14 | 20 | 10 | 12 |
| | 05 | 2 | 17000 | 230/208-60-1 | 198-253 | 14 | 27 | 20 | 30 | 12 | 10 | 12 | 10 | 27 | 30 | 10 | 10 |
| | 75 | 2 | 26000 | 230/208-60-1 | 198-253 | 14 | 39 | 20 | 40 | 12 | 8 | 12 | 10 | 40 | 40 | 6 | 10 |
| | 10 | 2 | 34000 | 230/208-60-1 | 198-253 | 14 | 53 | 20 | 60 | 12 | 6 | 12 | 10 | 53 | 60 | 6 | 10 |
| VEB24K | 00 | 1 | 0 | 230/208-60-1 | 198-253 | 16 | N/A | 20 | N/A | 10 | N/A | 10 | N/A | 16 | 20 | 10 | 10 |
| | 05 | 2 | 17000 | 230/208-60-1 | 198-253 | 16 | 27 | 20 | 30 | 10 | 10 | 10 | 10 | 27 | 30 | 10 | 10 |
| | 75 | 2 | 26000 | 230/208-60-1 | 198-253 | 16 | 39 | 20 | 40 | 10 | 8 | 10 | 10 | 40 | 45 | 6 | 10 |
| | 10 | 2 | 34000 | 230/208-60-1 | 198-253 | 16 | 53 | 20 | 60 | 10 | 6 | 10 | 10 | 53 | 60 | 6 | 10 |
| VEB30K | 00 | 1 | 0 | 230/208-60-1 | 198-253 | 23 | N/A | 30 | N/A | 8 | N/A | 10 | N/A | 23 | 30 | 8 | 10 |
| | 05 | 2 | 17000 | 230/208-60-1 | 198-253 | 23 | 27 | 30 | 30 | 8 | 10 | 10 | 10 | 27 | 30 | 8 | 10 |
| | 75 | 2 | 26000 | 230/208-60-1 | 198-253 | 23 | 39 | 30 | 40 | 8 | 8 | 10 | 10 | 40 | 45 | 6 | 10 |
| | 10 | 2 | 34000 | 230/208-60-1 | 198-253 | 23 | 53 | 30 | 60 | 8 | 6 | 10 | 10 | 53 | 60 | 6 | 10 |
| | 15 | 2 | 51000 | 230/208-60-1 | 198-253 | 27 | 53 | 30 | 60 | 8 | 8 | 10 | 10 | 80 | 90 | 4 | 8 |
| VEB36K | 00 | 1 | 0 | 230/208-60-1 | 198-253 | 28 | N/A | 40 | N/A | 8 | N/A | 10 | N/A | 28 | 40 | 8 | 10 |
| | 05 | 2 | 17000 | 230/208-60-1 | 198-253 | 28 | 27 | 40 | 30 | 8 | 10 | 10 | 10 | 28 | 40 | 8 | 10 |
| | 75 | 2 | 26000 | 230/208-60-1 | 198-253 | 28 | 39 | 40 | 40 | 8 | 8 | 10 | 10 | 40 | 45 | 6 | 10 |
| | 10 | 2 | 34000 | 230/208-60-1 | 198-253 | 28 | 53 | 40 | 60 | 8 | 6 | 10 | 10 | 53 | 60 | 6 | 10 |
| | 15 | 2 | 51000 | 230/208-60-1 | 198-253 | 28 | 53 | 40 | 60 | 8 | 8 | 10 | 10 | 81 | 90 | 4 | 8 |
| VEB42K | 00 | 1 | 0 | 230/208-60-1 | 198-253 | 34 | N/A | 50 | N/A | 6 | N/A | 10 | N/A | 34 | 50 | 6 | 10 |
| | 10 | 2 | 34000 | 230/208-60-1 | 198-253 | 34 | 53 | 50 | 60 | 6 | 6 | 10 | 10 | 55 | 60 | 6 | 10 |
| | 15 | 2 | 51000 | 230/208-60-1 | 198-253 | 34 | 53/27 | 50 | 60/30 | 6 | 6/8 | 10 | 10/10 | 82 | 90 | 4 | 8 |
| VEB49K | 00 | 1 | 0 | 230/208-60-1 | 198-253 | 36 | N/A | 50 | N/A | 6 | N/A | 10 | N/A | 41 | 60 | 6 | 10 |
| | 15 | 3 | 51000 | 230/208-60-1 | 198-253 | 36 | 53/27 | 50 | 60/30 | 6 | 6/8 | 10 | 10/10 | 82 | 90 | 4 | 8 |
| | 20 | 3 | 68000 | 230/208-60-1 | 198-253 | 36 | 53/53 | 50 | 60/60 | 6 | 6/6 | 10 | 10/10 | 108 | 110 | 2 | 4 |
| VEB60K | 00 | 1 | 0 | 230/208-60-1 | 198-253 | 48 | N/A | 70 | N/A | 4 | N/A | 8 | N/A | 48 | 70 | 4 | 8 |
| | 20 | 3 | 68000 | 230/208-60-1 | 198-253 | 48 | 53/53 | 70 | 60/60 | 4 | 6/6 | 8 | 10/10 | 108 | 110 | 2 | 4 |
| | 25 | 4 | 85000 | 230/208-60-1 | 198-253 | 48 | 53/53/27 | 70 | 60/60/30 | 4 | 6/6/8 | 10 | 10/10/10 | N/A | N/A | N/A | N/A |

## Heat Pumps

| | | | | | | Multiple Circuits | | | | | | | | Single Circuit | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Factory Circuit Breakers | Nom. Capacity | Voltage / Hz / Ph | Voltage Range | MCA | | HACR / Max Breaker Size | | Wire Size (field) | | Ground Wire Size (field) | | MCA | HACR / Max Breaker Size | Wire Size (field) | Ground Wire Size (field) |
| | | | | | | Ckt 1 | Ckt 2 | Ckt 1 | Ckt 2 | Ckt 1 | Ckt 2 | Ckt 1 | Ckt 2 | Ckt 1 | Ckt 1 | Ckt 1 | Ckt 1 |
| VHB18K | 05 | 2 | 17000 | 230/208-60-1 | 198-253 | 14 | 26 | 20 | 30 | 12 | 10 | 12 | 10 | 39 | 40 | 8 | 10 |
| | 75 | 2 | 26000 | 230/208-60-1 | 198-253 | 14 | 39 | 20 | 40 | 12 | 8 | 12 | 10 | 52 | 60 | 6 | 10 |
| | 10 | 2 | 34000 | 230/208-60-1 | 198-253 | 14 | 52 | 20 | 60 | 12 | 6 | 12 | 10 | 65 | 70 | 4 | 8 |
| VHB24K | 05 | 2 | 17000 | 230/208-60-1 | 198-253 | 20 | 26 | 30 | 30 | 10 | 10 | 10 | 10 | 41 | 40 | 8 | 10 |
| | 75 | 2 | 26000 | 230/208-60-1 | 198-253 | 20 | 39 | 30 | 40 | 10 | 8 | 10 | 10 | 54 | 60 | 6 | 10 |
| | 10 | 2 | 34000 | 230/208-60-1 | 198-253 | 20 | 52 | 30 | 60 | 10 | 6 | 10 | 10 | 67 | 70 | 4 | 8 |
| VHB30K | 05 | 2 | 17000 | 230/208-60-1 | 198-253 | 23 | 26 | 40 | 30 | 8 | 10 | 10 | 10 | 51 | 60 | 6 | 10 |
| | 75 | 2 | 26000 | 230/208-60-1 | 198-253 | 23 | 39 | 40 | 40 | 8 | 8 | 10 | 10 | 64 | 70 | 4 | 8 |
| | 10 | 2 | 34000 | 230/208-60-1 | 198-253 | 23 | 52 | 40 | 60 | 8 | 6 | 10 | 10 | 77 | 80 | 4 | 8 |
| | 15* | 2 | 51000 | 230/208-60-1 | 198-253 | 23 | 52 | 40 | 60 | 8 | 8 | 10 | 10 | 81 | 90 | 4 | 8 |
| VHB36K | 05 | 2 | 17000 | 230/208-60-1 | 198-253 | 28 | 26 | 40 | 30 | 8 | 10 | 10 | 10 | 54 | 60 | 6 | 10 |
| | 75 | 2 | 26000 | 230/208-60-1 | 198-253 | 28 | 39 | 40 | 40 | 8 | 8 | 10 | 10 | 67 | 70 | 4 | 8 |
| | 10 | 2 | 34000 | 230/208-60-1 | 198-253 | 28 | 52 | 40 | 60 | 8 | 6 | 10 | 10 | 80 | 80 | 4 | 8 |
| | 15* | 2 | 51000 | 230/208-60-1 | 198-253 | 28 | 52 | 40 | 60 | 8 | 8 | 10 | 10 | 81 | 90 | 4 | 8 |
| VHB42K | 10 | 2 | 34000 | 230/208-60-1 | 198-253 | 34 | 53 | 50 | 60 | 6 | 6 | 10 | 10 | 86 | 90 | 4 | 8 |
| | 15 | 3 | 51000 | 230/208-60-1 | 198-253 | 34 | 53/27 | 50 | 60/30 | 6 | 6/8 | 10 | 10/10 | 112 | 120 | 2 | 4 |
| VHB49K | 15 | 3 | 51000 | 230/208-60-1 | 198-253 | 36 | 53/27 | 50 | 60/30 | 6 | 6/6 | 10 | 10/10 | 114 | 120 | 2 | 4 |
| | 20 | 3 | 68000 | 230/208-60-1 | 198-253 | 36 | 53/53 | 50 | 60/60 | 6 | 6/6 | 10 | 10/10 | N/A | N/A | N/A | N/A |
| VHB60K | 20 | 3 | 68000 | 230/208-60-1 | 198-253 | 48 | 53/53 | 70 | 60/60 | 4 | 6/6 | 8 | 10/10 | N/A | N/A | N/A | N/A |
| | 25 | 4 | 85000 | 230/208-60-1 | 198-253 | 48 | 53/53/27 | 70 | 60/60/30 | 4 | 6/6/8 | 8 | 10/10/10 | N/A | N/A | N/A | N/A |

* VHB30K15 and VHB36K15 models were configured to stage electric heat with the “D” suffix revision. Refer to unit nameplate for actual requirements.

## VERT-I-PAK SINGLE PACKAGE AIR CONDITIONERS

| | | |
|---|---|---|
| Purchaser: | P.O. # | Date: |
| Project: | Location: | |
| Engineer: | Architect: | |
| Submitted By: | For Approval: | For Reference: |

| ITEM | PLAN DESIGNATION | QUANTITY | COOLING BTU/H | VOLTAGE | FRIEDRICH MODEL |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

## A-SERIES

**ACCESSORIES [Wall Plenum and Outdoor Louver are required.]**

| | | | | | |
|---|---|---|---|---|---|
| VPAWP1-8 Adjustable Wall Plenum (5-1/2"-8") | Qty | | VPRG4 Return Air Grille/Access Panel | Qty | |
| VPAWP1-14 Adjustable Wall Plenum (8"-14") | Qty | | VPRG2 Return Air Grille (for wall or door) | Qty | |
| VPAL2 Architectural Louver | Qty | | RT2 Remote Digital Electric Wall Thermostat | Qty | |
| VPSC2 Architectural Louver (color matched) | Qty | | VPDP1 Drain Pan for all A Series 24,000 Btu/h | Qty | |

## B-SERIES

**ACCESSORIES [Wall Plenum and Outdoor Louver are required for through the wall applications.]**

| | | | | | |
|---|---|---|---|---|---|
| VPWP3-8/14* Wall Plenum for 18,000 and 24,000 Btu/h | Qty | | VPAL3/VPSC3 Architectural Louver for VPWP3 | Qty | |
| VPWP4-8/14* Wall Plenum for 24,000, 30,000 and 36,000 Btu/h | Qty | | VPAL4/VPSC4 Architectural Louver for VPWP4 | Qty | |
| VPWP5-8/14* Wall Plenum for 36,000, 42,000 and 49,000 Btu/h | Qty | | VPAL5/VPSC5 Architectural Louver for VPWP5 | Qty | |
| VPWP6-8/14* Wall Plenum for 60,000 Btu/h | Qty | | VPAL6/VPSC6 Architectural Louver for VPWP6 | Qty | |
| VPDPH5 Outdoor Coil Drain Pan/Line Heater for 18,000 – 36,000 Btu/h units | Qty | | RT3 Remote Wall Thermostat for B series heat pumps | Qty | |
| VPDPH6 Outdoor Coil Drain Pan/Line Heater for 42,000 – 60,000 Btu/h units | Qty | | RT2 Remote Wall Thermostat for B series non-heat pumps | Qty | |
| VPDB1 Distribution Block allows single point power connection on B-series models (100A Max) | Qty | | | | |

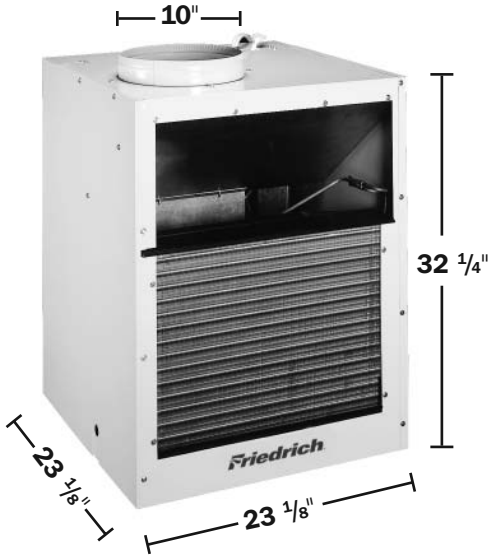
*-8 plenums are adjustable from 4 ½" – 8", -14 plenums adjust from 8" – 14".

**NOTES:**

## VERT-I-PAK® A-SERIES

### Application and Accessories

- Chassis is to be installed against an exterior wall. Wall cutout dimensions will be 24 5/8" w x 30 7/8" h.
- The use of a Friedrich wall plenum is required for installation. Plenum opening is 3/4" above the floor. (VPAWP1-8 / VPAWP1-14).
- Return air is accommodated with a return air filter attached to the unit or through the use of a return air filter grille. (VPRG4 / VPRG2).
- Exterior louvers are available in anodized aluminum (VPAL2) or in custom painted colors (VPSC2).
- Unit is controlled by a remote wall-mounted thermostat. Friedrich model RT2 digital thermostat is recommended.




**9,000 - 18,000 Btu/h**


### Typical Closet Arrangement

Cutaway of a typical closet shown with Vert-I-Pak® chassis installed in the wall sleeve. The unit has the thermostat, field wiring, internal drain and flex duct attached. VPRG4 return air filter holder and access panel are shown to the right.

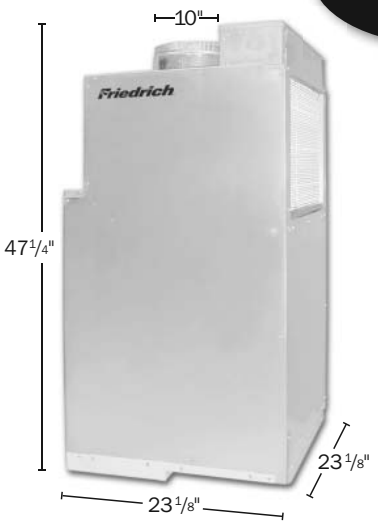
### Installation Guidelines

- Closet should allow for a minimum of three inches on three sides of the unit for return air, drain connections and changeouts.
- Minimum recommended access door rough-in measurements 27" wide by 55 3/4" high (for VPRG4).
- Friedrich recommends the use of a platform between 24" and 36" above the floor, for ease of installation and serviceability.
- Duct outlet designed for external static pressures up to .30" on 9,000 – 18,000 Btu/h models, and .40" on 24,000 Btu/h models.
- New wall plenum allows chassis to be inserted 2 3/8" into plenum, thereby minimizing closet dimensions.

## VERT-I-PAK® A-SERIES

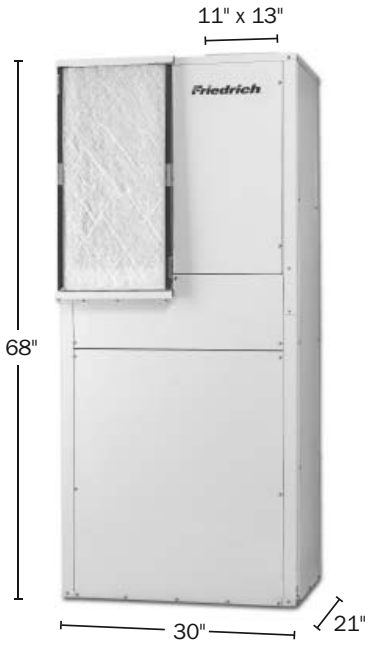
- New design utilizes drain pan (VPDP1) that can be installed prior to chassis for simplified installation and removal.
- Utilizes same wall plenum as other A Series units to give consistent exterior appearance. VEA/VHA24 plenum must be installed 1½" off of chassis platform.

**NEW 2-ton Models!**



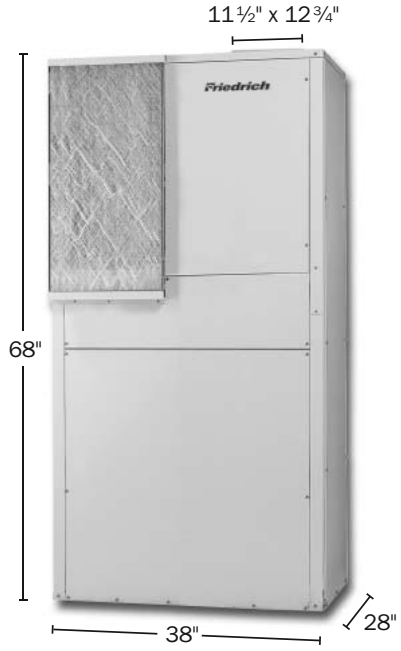

**24,000 Btu/h**

## VERT-I-PAK® B-SERIES




**18,000 - 36,000 Btu/h**

Chassis may be installed against an exterior wall or an interior closet, allowing for flexible installation.




**42,000 & 49,000 Btu/h**
**(60,000 Btu/h is 45" wide x 30 ½" deep x 77" high)**

As an option, the return air can be ducted or it can enter through the standard front-mount filter.

## VERT-I-PAK® A-SERIES

| MODEL | DESCRIPTION | PHOTO |
|---|---|---|
| **VPAWP1-8** | **WALL PLENUM** Two-part sleeve that telescopes in and out from 5 1/2" to 8" in depth. The wall plenum sits inside the exterior wall penetration.<br>DIMENSIONS: 30 3/8" high x 24 1/8" wide.<br>CUTOUT DIMENSIONS: 30 7/8" high x 24 5/8" wide. |  |
| **VPAWP1-14** | Same as VPAWP1-8, but telescopes 8" to 14" as required. | |
| **VPAL2** | **ARCHITECTURAL LOUVER** Extruded aluminum louver that attaches to the outdoor section of the wall plenum.<br>DIMENSIONS: 31 1/16" high x 25 9/16" wide. |  |
| **VPSC2** | Same as VPAL2 but can be ordered in a special color to match the exterior wall. | |
| **RT2** | **DIGITAL THERMOSTAT** Digital electronic thermostat with "one touch" adjustment. Mounts to wall for control of unit. |  |
| **VPRG4** | **ACCESS PANEL / RETURN AIR GRILLE –** Serves as an access panel to chassis and interior return air grille. A field-supplied (25" x 20") filter is mounted inside the hinged access door.<br>DIMENSIONS: 58" high x 29" wide.<br>CUTOUT DIMENSIONS: 55 3/4" high x 27" wide. |  |
| **VPRG2** | **RETURN AIR GRILLE –** Interior return air grille that hinges to allow a field supplied (16" x 20") filter to slip inside. Must be used when an access door / panel already exists in closet.<br>DIMENSIONS: 18 7/16" high x 22 3/8" wide. |  |
| **VPDP1** | **DRAIN PAN** for VEA/VHA24 models. Drain pan may be installed prior to chassis for easy installation/removal. |  |

## VERT-I-PAK® B-SERIES

| MODEL | DESCRIPTION | PHOTO |
|---|---|---|
| Telescoping wall plenums adjust to exact wall depth. Models with -8 suffixes adjust 4 1/2" - 8" deep; -14 models adjust 8" - 14". | | |
| **WALL PLENUM- Used when chassis is positioned against an exterior wall for outdoor air infiltration.** | | |
| **VPBWP3-8<br>VPBWP3-14** | Recommended for use with 18,000 and 24,000 Btu/h units.<br>DIMENSIONS: 18 1/4" high x 28 1/4" wide.<br>CUTOUT DIMENSIONS: 18 1/2" high x 28 1/2" wide. |  <br>VPBWP3-8 |
| **VPBWP4-8<br>VPBWP4-14** | Recommended for use with 18,000, 24,000, 30,000 and 36,000 Btu/h units.<br>DIMENSIONS: 24 1/4" high x 30" wide.<br>CUTOUT DIMENSIONS: 24 1/2" high x 30 1/4" wide | |
| **VPBWP5-8<br>VPBWP5-14** | Recommended for use with 42,000 and 49,000 Btu/h units.<br>DIMENSIONS: 24 1/4" high x 38" wide.<br>CUTOUT DIMENSIONS: 24 1/2" high x 38 1/4" wide. | |
| **VPBWP6-8<br>VPBWP6-14** | Recommended for use with 60,000 Btu/h units.<br>DIMENSIONS: 34 1/4" high x 40" wide.<br>CUTOUT DIMENSIONS: 34 1/2" high x 40 1/4" wide. | |
| **ARCHITECTURAL LOUVER- Extruded aluminum outdoor louver that attaches to wall sleeve or outside of building.** | | |
| **VPAL3<br>VPSC3** | Architectural louver for VPBWP3 plenums.<br>Custom colored architectural louver for VPBWP3 plenums. |  <br>VPAL4 |
| **VPAL4<br>VPSC4** | Architectural louver for VPBWP4 plenums.<br>Custom colored architectural louver for VPBWP4 plenums. | |
| **VPAL5<br>VPSC5** | Architectural louver for VPBWP5 plenums.<br>Custom colored architectural louver for VPBWP5 plenums. | |
| **VPAL6<br>VPSC6** | Architectural louver for VPBWP6 plenums.<br>Custom colored architectural louver for VPBWP6 plenums. | |
| **RT3** | THERMOSTAT Digital two-stage, manual changeover thermostat for B Series heat pumps only. For nonheat pump models, use RT2. | |
| **VPDB1** | DISTRIBUTION BLOCK - Allows B Series Vert-I-Paks to be connected to a single-point power source. Block and wiring is entirely contained within the unit electrical control box. For use on circuits up to 100 amps max. Larger requirements must use multiple circuits. VHB49K15 is the largest Vert-I-Pak approved for use with the VPDB1. Distribution block is standard on RTD models 18000 - 36000 BTU/h. | |
| **COLD CLIMATE KITS- The following kits are to be applied in climates where the outdoor design temperature is 15°F or below.** | | |
| **VPDPH5<br>VPDPH6** | Outdoor coil drain pan/line heater for 18,000 – 36,000 Btu/h units.*+<br>Outdoor coil drain pan heater for 42,000 – 60,000 Btu/h units.* | |

* No additional electrical service is required for these kits.

+ RTD models do not require cold climate kits.

## MODEL IDENTIFICATION GUIDE

| MODEL NUMBER | V | E | A | 09 | K | 50 | RT | A |
|---|---|---|---|---|---|---|---|---|

**SERIES**
V=Vertical Series

E=Cooling with or without electric heat
H=Heat Pump

**DESIGN SERIES**
A = 32"/47" Cabinet
B = 68" Cabinet

**NOMINAL CAPACITY**

| A Series (Btu/h) | B Series (Btu/h) | |
|---|---|---|
| 09 = 9,000 | 18 = 18,000 | 42 = 42,000 |
| 12 = 12,000 | 24 = 24,000 | 49 = 49,000 |
| 18 = 18,000 | 30 = 30,000 | 60 = 60,000 |
| 24 = 24,000 | 36 = 36,000 | |

**VOLTAGE**
K = 208/230V-1Ph-60Hz

**ENGINEERING CODE**

**OPTIONS**
RT = Standard Remote Operation
SP = Seacoast Protected

**ELECTRIC HEATER SIZE**

| A Series | B Series |
|---|---|
| 00 = No electric heat | 00 = No electric heat |
| 25 = 2.5 KW | 05 = 5.0 KW |
| 34 = 3.4 KW | 07 = 7.5 KW |
| 50 = 5.0 KW | 10 = 10.0 KW |
| 75 = 7.5 KW | 15 = 15.0 KW |
| 10 = 10.0 KW | 20 = 20.0 KW |
| | 25 = 25.0 KW |

Refer to electrical data chart for heater/unit compatibility

## Multiple solutions.
## One trusted name.

Friedrich

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