Vert-I-Pak®

A BETTER SOLUTION FOR HOSPITALITY AND MULTI-FAMILY

Ducted and closet-mounted, Vert-I-Pak eliminates the need for multiple through-the-wall units. The Vert-I-Pak unit is installed out of sight, so guests enjoy a more attractive, more homelike appearance.

BETTER AESTHETICS

**Indoors**

The unit is installed out of sight, so your guests will only see a wall thermostat.

**Outdoors**

Packaged unit eliminates the clutter of outdoor condensing units and the sleek architectural grille is available in custom colors to match the building’s exterior.
A QUIET, ENERGY EFFICIENT OPTION FOR SUITES, EXTENDED STAY PROPERTIES, ASSISTED LIVING, AND STUDENT HOUSING

Heat Pump

**COOLING**
9000–22500 Btu
All 11.0 EER

**REVERSE HEATING**
8200–19200 Btu
All 3.3 COP

** AUXILIARY ELECTRIC HEATING**
7000–17000 Btu

ASHRAE 90.1-2013 Compliant

VERT-I-PAK IS A SUPERIOR PRODUCT

<table>
<thead>
<tr>
<th>Advanced features you’ll find on Friedrich Vert-I-Pak</th>
<th>What you’ll find on many competitors’ products</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Floating chassis design slides into a wall plenum and is held firmly in place by a sealing gasket, reducing noise from vibration transfer.</td>
<td>1. Chassis is screwed into the wall plenum. Metal-on-metal contact transfers vibration, increasing operating noise under typical conditions. Noise is transferred through the walls and into the room.</td>
</tr>
<tr>
<td>2. ½ inch foil-backed insulation added on the inside of the chassis to reduce sound transmission into the guest room.</td>
<td>2. No insulation on the unit to reduce noise transmission into the guest room.</td>
</tr>
<tr>
<td>3. All model efficiencies of 11.0 EER and 3.3 COP.</td>
<td>3. Hard plastic feet on the unit base which are less durable and transfer harsh vibration noise.</td>
</tr>
<tr>
<td>4. Condensate removal system uses slinger ring technology to cool the coil and increase efficiency.</td>
<td>4. Different plenums needed based on varying wall depths.</td>
</tr>
<tr>
<td>5. Dynamically balanced blower with large, vibration-absorbing motor mounts for smooth and quiet operation.</td>
<td>5. No labor warranty.</td>
</tr>
<tr>
<td>6. Patented telescoping plenums (accessory) Easily adapt to more installations.</td>
<td></td>
</tr>
<tr>
<td>7. 5 year limited warranty*; 1 year labor warranty.</td>
<td></td>
</tr>
</tbody>
</table>

* See warranty documentation for details.
ENGINEERED FOR QUIETER PERFORMANCE

**Friedrich’s ‘Free Floating’ chassis design and superior insulation help to eliminate vibration noise**

The chassis slides into the wall plenum and a gasket firmly seals the chassis to the patented telescoping plenum. This eliminates vibration noises that are transmitted into the room in competitors’ metal-on-metal fixed installations. Extra thick, vibration-absorbing rubber grommets mounted on a durable base that is engineered for structural and acoustic integrity.

---

**TYPICAL VERT-I-PAK® INSTALLATION**

**ACCESS DOOR OR PANEL TO CLOSET CAN BE INSTALLED FROM 3 SIDES**

- Field-supplied Filter (25" x 20")
- VPRG4/VPRG4R Access Panel & Return Air Filter Grille
- Power Disconnect
- Optional Platform
- 3” Clearance on all three sides minimum for service and installation
- Optional field supplied drain pan (refer to local codes)
- Chassis is shipped with vibration isolators installed
- VPDP2 drain pan beneath unit is required on all VHA18 and VHA24 units
- Drain pan must be installed prior to chassis installation
- Exterior Wall
- Flexible Ductwork
- VPAWP1-8/1-14 Wall Plenum
- Plenum Divider

Foil-backed, ½” insulation blanket inside the cabinet reduces sound transmitted into the guest room.
VERT-I-PAK® ADVANTAGES

A better heating and cooling option inside and out

- Eliminates the clutter of outdoor condensing units and the need for vandalism barriers.
- Completely self-contained
- No refrigerant lines running from floor to floor
- Fast, easy replacement keeps spaces livable

Improved guest comfort

- Individually controlled
- Vert-I-Pak models include back up auxiliary electric heat.
- Duct air specifically where it’s needed, not just on the outside wall
- 2-speed fan with constant fan option on Friedrich RT7, RT7P and WRT2 thermostats

FEATURES

Reliable and durable

- BLDC (Brushless DC Motor) motors for maximum efficiency
- Engineered drain pan won’t rust, eliminating the risk of unsightly rust stains from condensation on the building exterior
- Painted, 18-gauge galvanized steel cabinet resists corrosion
- Standard safety power disconnect
- Electronic control panel on unit for easy diagnostics and servicing
- Every unit is 100% run tested prior to shipment

Easy installation

- Can be installed from any interior side (front, right or left)
- Ductable to multiple rooms
- Compact and lightweight, weighs as little as 114 lbs.
- Installation does not require an HVAC technician
- Prewired, charged and piped
- Units are ready to install with only electrical hook up needed
- 10” crimped and beaded duct-collar ready to attach flex duct
- Patented telescoping wall plenums adjust to fit varying exterior wall thicknesses
- Primary condensate removal system provided through ¾” pipe fittings for more placement options
- Secondary overflow from primary drain*
- Central desk control ready
- 24-volt remote wireless or wired thermostat ready

Energy management thermostats available

- Wired (EMRT2) and wireless (EMWRT2) thermostats
- Integrated motion and thermal occupancy sensor
- Auto changeover
- 5 distinct energy presets
- Comprehensive remote management capability**

Energy management

- Wired (EMRT2) and wireless (EMWRT2) thermostats

Warranty and Support

- Industry leading warranty features 1 year full warranty on parts and labor and 5 year limited warranty.
- Nationwide service network and U.S. based Friedrich expert technical team ensures you get fast, knowledgeable service.

DIAMONDBLUE

Advanced Corrosion Protection

Protects the outdoor coil against deterioration and extends the life of the unit especially in harsh coastal environments.

* 18000 Btu & 24000 Btu models use secondary gravity-fed drain. ** Energy management capability requires purchase of additional hardware and service fee
Save big on energy without compromising guest comfort with FriedrichLink® thermostats, the advanced energy management solution for Friedrich Vert-I-Pak®

Real Time Motion and Thermal Occupancy Sensor
Integrated Occupancy Sensor uses a combination of motion and thermal sensing technologies for accurate occupancy detection at all times-no need to install additional devices such as door switches or sensors.

Wired or Wireless Installation
Wired or wireless connectivity with extensive configuration options deliver full compatibility and easy integration with virtually any packaged HVAC system.

5 Energy Savings Presets
5 distinct energy saving modes make it easy to choose the optimal energy saving settings for any property.

Remote Management*
Web-based remote management provides expansive solutions for remote monitoring and configuration from any computer connected to the Internet.

Built-in Wireless Networking enables remote management without using or interfering with property’s existing wireless infrastructure. True mesh networking eliminates the need for additional networking equipment such as signal repeaters or multiple data collection boxes.

*Requires an optional “Online Connection Kit” and a one-time license fee.

Friedrich’s EMRT2 and EMWRT2 thermostats use real-time motion and thermal occupancy detection to save energy.

When the room is unoccupied, the thermostat automatically adjusts the temperature to eliminate unnecessary heating and cooling.

Monitor room status and see the operation, occupancy and energy efficiency status of each room.

Advanced Energy Saving Features

Fully configurable energy saving modes maximize energy savings without compromising guest comfort.

Temperature setback automatically adjusts the temperature when the room is unoccupied in order to save energy.

Temperature recovery calculates the setback temperature so that the desired temperature can be restored within specified time.

Setback optimization continuously monitors temperature recovery rate in the room and adjusts setback temperature to maximize energy savings.

Setback limits allow maximum and minimum room temperature to be set when the room is unoccupied.

Setpoint limits prevent guests from setting room temperature to extreme, energy-wasting levels.

Room status displays operation, occupancy and energy efficiency status of each room.

Room detail displays temperature and occupancy changes in a room.

Energy reports monitor energy use and can even evaluate the performance of energy saving features.

Intuitive interface makes it easy to apply different settings to different rooms.

User management allows configuration of custom access permissions and alert notification settings for different users.

Built-in diagnostic tools automatically send email alert notifications to hotel staff.
ACCESSORIES

ARCHITECTURAL LOUVER
VPAL2 and VPS2
Extruded aluminum grille that attaches to the outdoor section of the wall plenum. VPS2 can be ordered in custom colors.
DIMENSIONS: 25 9/16" W x 31 1/16" H

WALL PLENUM [Required]
VPAWP1-8, VPAWP1-14
Two-part sleeve that telescopes in and out; sits inside the exterior wall penetration.
VPAWP1-8 telescopes from 5 1/2” – 8”
VPAWP1-14 telescopes from 8” – 14”
DIMENSIONS: 24 1/8" W x 30 3/8" H
CUTOUT DIMENSIONS: 24 5/8" W x 30 7/8" H

RETURN AIR GRILLE/ACCESS PANEL/SOLID DOOR ACCESS PANEL
VPRG4/VPRG4R/VPRG4SD
Hinged panel allows access to unit and return air filter.
A field-supplied filter (25” x 20”) should be mounted on the inside grille. Panel can be mounted with return air openings high or low on the door for optimum sound attenuation. VPRG4SD is a solid door panel. VPRG4 is a default left in-swing, the VPRG4R is a right in-swing.
DIMENSIONS: 29” W x 58” H
CUTOUT DIMENSIONS: 27” W x 55 3/4” H

FIRST COMPANY SLEEVE ADAPTER
VPASA1
Single piece, welded adapter allows retrofit into existing First Company® SPXR-series single package vertical unit wall sleeve and louver. Easily connects to Friedrich chassis. Only compatible with Friedrich’s smaller sized VPAK 9k and 12k units.

SINGLE STAGE THERMOSTATS
RT7P
Wired, single stage, wall-mounted programmable thermostat with two fan speeds and backlight. Controls Friedrich VERT-I-PAK.
RT7
Wired, single stage, wall-mounted digital thermostat with two fan speeds and backlight. Controls Friedrich VERT-I-PAK.
WRT2
Wireless, single stage, wall-mounted programmable thermostat with two fan speeds and backlight. Controls Friedrich VERT-I-PAK.

ENERGY MANAGEMENT THERMOSTATS
EMRT2/EMWRT2
Wired/Wireless thermostat with occupancy sensor.
EMRCT
Online connection kit
EMRAF
Remote access fee
EMROS
Remote Occupancy Sensor
EMRTS
EMRDS
Remote Temperature
EMOF
Sensor Door Switch
EMCWP
EMRWOS
Wall Plate
Wireless Occ. Sensor

DRAIN PAN [Required for VHA18 and VHA24 models]
VPDP2
For VHA18 & VHA24 models. Must be installed prior to chassis for easy installation/removal.
### SPECIFICATIONS

**Friedrich Air Conditioning Co.**

10001 Reunion Place, Suite 500  
San Antonio, TX 78216  
877.599.5665  
www.friedrich.com

**ULCDTP**

**NOTES:**

Cooling Standards: 95°F DB/75°F WB outdoor, 80°F DB/67°F WB indoor  
Heating Standards: 47°F DB/43°F WB outdoor, 70°F DB/60°F WB indoor  
Normal Value Wet Coil @ .1” ESP.

Due to continuing research in new energy-saving technology, specifications are subject to change without notice.

#### MODEL

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VHA09K</th>
<th>VHA09R</th>
<th>VHA12K</th>
<th>VHA12R</th>
<th>VHA18K</th>
<th>VHA18R</th>
<th>VHA24K</th>
<th>VHA24R</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COOLING DATA</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL COOLING CAP.</td>
<td>9300</td>
<td>9300</td>
<td>11500</td>
<td>11500</td>
<td>18400</td>
<td>18400</td>
<td>22500</td>
<td>22500</td>
</tr>
<tr>
<td>SENSIBLE COOL CAP.</td>
<td>7440</td>
<td>7440</td>
<td>9085</td>
<td>9085</td>
<td>13430</td>
<td>13430</td>
<td>15750</td>
<td>15750</td>
</tr>
<tr>
<td>POWER (W)</td>
<td>845</td>
<td>845</td>
<td>1045</td>
<td>1045</td>
<td>1670</td>
<td>1670</td>
<td>2045</td>
<td>2045</td>
</tr>
<tr>
<td>EER</td>
<td>11.0</td>
<td>11.0</td>
<td>11.0</td>
<td>11.0</td>
<td>11.0</td>
<td>11.0</td>
<td>11.0</td>
<td>11.0</td>
</tr>
<tr>
<td>HEATER SIZE (kW)</td>
<td>2.5/3.4/5.0</td>
<td>2.5/3.4/5.0</td>
<td>2.5/3.4/5.0</td>
<td>2.5/3.4/5.0</td>
<td>2.5/3.4/5.0</td>
<td>2.5/3.4/5.0</td>
<td>2.5/3.4/5.0</td>
<td>2.5/3.4/5.0</td>
</tr>
<tr>
<td><strong>HEAT PUMP DATA</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REVERSE HEATING BTU</td>
<td>8300</td>
<td>8300</td>
<td>10400</td>
<td>10400</td>
<td>16700</td>
<td>16700</td>
<td>19500</td>
<td>19500</td>
</tr>
<tr>
<td>COP @ 47F</td>
<td>3.3</td>
<td>3.3</td>
<td>3.3</td>
<td>3.3</td>
<td>3.3</td>
<td>3.3</td>
<td>3.3</td>
<td>3.3</td>
</tr>
<tr>
<td>HEATING POWER (W)</td>
<td>730</td>
<td>730</td>
<td>940</td>
<td>940</td>
<td>1480</td>
<td>1480</td>
<td>1732</td>
<td>1732</td>
</tr>
<tr>
<td>HEATING CURRENT (A)</td>
<td>3.6</td>
<td>3.1</td>
<td>4.5</td>
<td>3.7</td>
<td>7.0</td>
<td>6.1</td>
<td>9.2</td>
<td>9.2</td>
</tr>
<tr>
<td><strong>ELECTRICAL DATA</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOLTAGE (1 PHASE, 60 HZ)</td>
<td>208-230</td>
<td>265</td>
<td>208-230</td>
<td>265</td>
<td>208-230</td>
<td>265</td>
<td>208-230</td>
<td>265</td>
</tr>
<tr>
<td>VOLT RANGE</td>
<td>197-253</td>
<td>239-292</td>
<td>197-253</td>
<td>239-292</td>
<td>197-253</td>
<td>239-292</td>
<td>197-253</td>
<td>239-292</td>
</tr>
<tr>
<td>COOLING CURRENT (A)</td>
<td>4.1</td>
<td>3.5</td>
<td>4.9</td>
<td>4.0</td>
<td>7.9</td>
<td>7.0</td>
<td>10.5</td>
<td>10.5</td>
</tr>
<tr>
<td>AMPS L.R</td>
<td>21.0</td>
<td>21.0</td>
<td>23.0</td>
<td>23.0</td>
<td>37.0</td>
<td>37.0</td>
<td>44.0</td>
<td>44.0</td>
</tr>
<tr>
<td>INDOOR MOTOR (HP)</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
<td>1/5</td>
<td>1/5</td>
</tr>
<tr>
<td>INDOOR MOTOR (A)</td>
<td>1.2</td>
<td>1.2</td>
<td>1.2</td>
<td>1.2</td>
<td>0.42</td>
<td>0.42</td>
<td>1.4</td>
<td>1.4</td>
</tr>
<tr>
<td>OUTDOOR MOTOR (HP)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
</tr>
<tr>
<td>OUTDOOR MOTOR (A)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>1.6</td>
<td>1.6</td>
<td>1.7</td>
<td>1.7</td>
</tr>
<tr>
<td><strong>PHYSICAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIMENSIONS (W x D x H)</td>
<td>23” x 23” x 32”</td>
<td>23” x 23” x 32”</td>
<td>23” x 23” x 32”</td>
<td>23” x 23” x 32”</td>
<td>23” x 23” x 47”</td>
<td>23” x 23” x 47”</td>
<td>23” x 23” x 52”</td>
<td>23” x 23” x 52”</td>
</tr>
<tr>
<td>NET WEIGHT (LBS)</td>
<td>142</td>
<td>144</td>
<td>147</td>
<td>149</td>
<td>190</td>
<td>192</td>
<td>225</td>
<td>227</td>
</tr>
<tr>
<td>SHIPPING WEIGHT (LBS)</td>
<td>164</td>
<td>166</td>
<td>169</td>
<td>171</td>
<td>216</td>
<td>218</td>
<td>251</td>
<td>253</td>
</tr>
<tr>
<td>TEST SETTING</td>
<td>LOW</td>
<td>LOW</td>
<td>LOW</td>
<td>LOW</td>
<td>LOW</td>
<td>LOW</td>
<td>LOW</td>
<td>LOW</td>
</tr>
<tr>
<td>R410A CHARGE (OZ)</td>
<td>38.0</td>
<td>38.0</td>
<td>42.1</td>
<td>42.1</td>
<td>58.5</td>
<td>58.5</td>
<td>62</td>
<td>62</td>
</tr>
<tr>
<td><strong>AIRFLOW DATA</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INDOOR CFM .10” ESP</td>
<td>430</td>
<td>490</td>
<td>430</td>
<td>490</td>
<td>630</td>
<td>675</td>
<td>630</td>
<td>675</td>
</tr>
<tr>
<td>.15” ESP</td>
<td>410</td>
<td>470</td>
<td>410</td>
<td>470</td>
<td>595</td>
<td>640</td>
<td>595</td>
<td>640</td>
</tr>
<tr>
<td>.20” ESP</td>
<td>360</td>
<td>440</td>
<td>360</td>
<td>440</td>
<td>550</td>
<td>600</td>
<td>550</td>
<td>600</td>
</tr>
<tr>
<td>.25” ESP</td>
<td>310</td>
<td>400</td>
<td>310</td>
<td>400</td>
<td>505</td>
<td>550</td>
<td>505</td>
<td>550</td>
</tr>
<tr>
<td>.30” ESP</td>
<td>260</td>
<td>350</td>
<td>260</td>
<td>350</td>
<td>455</td>
<td>500</td>
<td>455</td>
<td>500</td>
</tr>
<tr>
<td>.35” ESP</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>480</td>
<td>445</td>
<td>480</td>
<td>445</td>
</tr>
<tr>
<td>.40” ESP</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>345</td>
<td>400</td>
<td>345</td>
<td>400</td>
</tr>
<tr>
<td>VENT CFM</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
</tbody>
</table>

**NOTES:**

- Cooling Standards: 95°F DB/75°F WB outdoor, 80°F DB/67°F WB indoor  
- Heating Standards: 47°F DB/43°F WB outdoor, 70°F DB/60°F WB indoor  
- Normal Value Wet Coil @ .1” ESP.

Rated CFM at Low Speed:  
**VHA09-K**...430  
**VHA12-K**...430  
**VHA18-K**...600  
**VHA24-K**...655

Due to continuing research in new energy-saving technology, specifications are subject to change without notice.