VERT-I-PAK®

Single Package Vertical Air Conditioners
A better solution for hospitality and multifamily

QUIET OPERATION
INDUSTRY-LEADING
WARRANTY

THE EXPERTS IN ROOM AIR CONDITIONING
Vert-I-Pak®

A BETTER SOLUTION FOR HOSPITALITY AND MULTI-FAMILY

A quiet, energy efficient option for suites, extended stay properties, assisted living, and student housing

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.
# VERT-I-PAK IS A SUPERIOR PRODUCT

## Advanced features you’ll find on Friedrich Vert-I-Pak

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Floating chassis design</td>
<td>Slides into a wall plenum and is held firmly in place by a sealing gasket, reducing noise from vibration transfer.</td>
</tr>
<tr>
<td>2. ½ inch foil-backed insulation</td>
<td>Added on the inside of the chassis to reduce sound transmission into the guest room.</td>
</tr>
<tr>
<td>3. All model efficiencies</td>
<td>11.0 EER and 3.3 COP</td>
</tr>
<tr>
<td>4. Condensate removal system</td>
<td>Uses slinger ring technology to cool the coil and increase efficiency.</td>
</tr>
<tr>
<td>5. Dynamically balanced blower</td>
<td>With large, vibration-absorbing motor mounts for smooth and quiet operation.</td>
</tr>
<tr>
<td>6. Patented telescoping plenums (accessory)</td>
<td>Easily adapt to more installations.</td>
</tr>
<tr>
<td>7. 5 year limited warranty*</td>
<td>1 year labor warranty</td>
</tr>
</tbody>
</table>

* See warranty documentation for details.

## What you’ll find on many competitors’ products

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Chassis is screwed into the wall plenum.</td>
<td>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. No insulation on the unit</td>
<td>To reduce noise transmission into the guest room.</td>
</tr>
<tr>
<td>3. Hard plastic feet on the unit base</td>
<td>Which are less durable and transfer harsh vibration noise.</td>
</tr>
<tr>
<td>4. Different plenums needed based on varying wall depths.</td>
<td></td>
</tr>
<tr>
<td>5. No labor warranty</td>
<td></td>
</tr>
</tbody>
</table>

* See warranty documentation for details.*

### 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

WATCH VIDEO ON VERT-I-PAK® APPLICATIONS
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.

Foil-backed, ½” insulation blanket inside the cabinet reduces sound transmitted into the guest room.

TYPICAL VERT-I-PAK® INSTALLATION

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

Chassis slides into gasketed, telescoping wall plenum

Chassis is shipped with vibration isolators installed

3” Clearance on all three sides minimum for service and installation

Field-supplied Filter (25” x 20”)

VPDP2 drain pan beneath unit is required on all VHA18 and VHA24 units. Drain pan must be installed prior to chassis installation

VPWP1-8/1-14 Wall Plenum

Flexible Ductwork

Rigid Ductwork

Power Disconnect

Optional field supplied drain pan (refer to local codes)

Optional Platform

VPDP2 drain pan beneath unit is required on all VHA18 and VHA24 units. Drain pan must be installed prior to chassis installation

Exterior Wall

Optional Platform

Flexible Ductwork

VPWP1-8/1-14 Wall Plenum

Plenum Divider

VPRG4/VPRG4R Access Panel & Return Air Filter Grille

58”

29”
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

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**

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.

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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

Vert-I-Pak® Advantages

A better choice than whole building solutions

- Lower installed cost
- Independent metering (no need to prorate for multi tenant applications)
- Individual temperature setpoint (one unit can heat and others can cool)
- Less risk, with a whole building system, spaces may become uninhabitable until the system is repaired or replaced
- Vert-I-Pak can be easily accessed for maintenance or replacement

DiamonBlu®

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

FriedrichLink® thermostats are 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.

### 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.

Friedrich’s EMRT2, EMWRT2, VRPXEMRT2 and VRPXEMWRT2 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.

FriedrichLink® For Lodging
ACCESSORIES

ARCHITECTURAL LOUVER
VPAL2 and VPSC2
Extruded aluminum grille that attaches to the outdoor section of the wall plenum. VPSC2 can be ordered in custom colors.

DIMENSIONS: 25\(\frac{9}{16}\)" W x 31\(\frac{3}{16}\)" 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\(\frac{1}{2}\)" – 8"
VPAWP1-14 telescopes from 8" – 14"

DIMENSIONS: 24\(\frac{1}{8}\)" W x 30\(\frac{3}{8}\)" H
CUTOUT DIMENSIONS: 24\(\frac{5}{8}\)" W x 30\(\frac{7}{8}\)" 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\(\frac{3}{4}\)" 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.

EMOCT EMRAF EMROS
Online connection kit Remote access fee Remote Occupancy Sensor

EMRTS EMRDS EMCWP EMRWOS
Remote Temperature Sensor Door Switch 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

### Cooling Standards:
- Outdoor: 95°F DB/75°F WB
- Indoor: 80°F DB/67°F WB

### Heating Standards:
- Outdoor: 47°F DB/43°F WB
- Indoor: 70°F DB/60°F WB

### Normal Value Wet Coil:
- 0.1" ESP

### Rated CFM at Low Speed:
- VHA09: 430
- VHA12: 490
- VHA18: 630
- VHA24: 630

### 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>
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<tbody>
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### HEAT PUMP DATA

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<th>VHA12R</th>
<th>VHA18K</th>
<th>VHA18R</th>
<th>VHA24K</th>
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### ELECTRICAL DATA

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<th>VHA12R</th>
<th>VHA18K</th>
<th>VHA18R</th>
<th>VHA24K</th>
<th>VHA24R</th>
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<tbody>
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### PHYSICAL

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<th>VHA18R</th>
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<tbody>
<tr>
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### AIRFLOW DATA

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<tr>
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<td>UP TO &quot; &quot; CFM</td>
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</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...430  VHA12...430  VHA18...600  VHA24...655
- Due to continuing research in new energy-saving technology, specifications are subject to change without notice.