VERT-I-PAK® SERIES
SINGLE PACKAGE VERTICAL AIR CONDITIONERS

www.friedrich.com THE EXPERTS IN ROOM AIR CONDITIONING
Vert-I-Pak®

A Better Solution for Hospitality and Multi-Family Suites

Ducted and closet-mounted, Vert-I-Pak eliminates the need for multiple through the wall units. The packaged 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**
9400-23000 Btu
Up to 10.4 EER

**REVERSE HEATING**
8400 - 20000 Btu
All 3.0 COP

**AUXILIARY ELECTRIC HEATING**
8530-34121 Btu

ASHRAE 90.1-2013 Compliant
Models Available

**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 competitor’s 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>
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<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>
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<tr>
<td>3. Efficiencies above industry standards with EERs up to 10.4.</td>
<td>3. Hard plastic feet on the unit base which are less durable and transfer harsh vibration noise.</td>
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<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>
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<tr>
<td>5. Dynamically balanced blower with large, vibration-absorbing motor mounts for smooth and quiet operation.</td>
<td>5. No labor warranty.</td>
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<tr>
<td>6. Patented telescoping plenums [accessory] easily adapt to more installations.</td>
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<tr>
<td>7. 5 year limited warranty*; 1 year labor warranty.</td>
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* See warranty documentation for details.
Friedrich 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 competitor’s metal-on-metal fixed installations. Extra thick, vibration-absorbing rubber grommets mounted on durable base that is engineered for structural and acoustic integrity.

Foil-backed, 1/2” 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
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 Heat pump 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 RT6, RT6P and WRT1 thermostats

FEATURES

RELIABLE AND DURABLE

• PSC permanently lubricated motor for low maintenance and 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 3/4” pipe fittings for more placement options
• Secondary overflow from primary drain*
• Central desk control ready
• 24-volt remote wireless or wired thermostat ready

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.

ENERGY MANAGEMENT THERMOSTATS AVAILABLE

• Wired and wireless thermostats
• Integrated motion and thermal occupancy sensor
• Auto changeover
• 5 distinct energy presets
• Comprehensive remote management capability**

DIAMONDBLUE Advanced Corrosion Protection

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

* 24000 Btu model uses 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, the 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. Optional Humidity Control Feature available through Remote Management. See accessories page 6.

**Advanced Energy Saving Features**

- **Fully configurable** energy saving modes maximize energy savings without compromising guest comfort.
- **Setback optimization** continuously monitors temperature recovery rate in the room and adjusts setback temperature to maximize energy savings.
- **Temperature setback** automatically adjusts the temperature when the room is unoccupied in order to save energy.
- **Setback limits** allow maximum and minimum room temperature to be set when the room is unoccupied.
- **Temperature recovery** calculates the setback temperature so that the desired temperature can be restored within specified time.
- **Set point 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 EMRT1 and EMWRT1 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.

FriedrichLink® thermostats, the energy management solution for Friedrich Vert-I-Pak®
OPTIONAL ACCESSORIES

ARCHITECTURAL LOUVER
VPAL2 and VPSC2
Extruded aluminum grille that attaches to the outdoor section of the wall plenum. Takes in fresh air and returns condensed air. VPSC2 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
VPRG4 / VPRG4R
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.
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
RT6P
Wired, single stage, wall-mounted programmable thermostat has two fan speeds and backlight. Controls Friedrich VERT-I-PAK.

RT6
Wired, single stage, wall-mounted digital thermostat has two fan speeds and backlight. Controls Friedrich VERT-I-PAK.

WRT1
Wireless, single stage, wall-mounted digital thermostat has two fan speeds and backlight. Controls Friedrich VERT-I-PAK.

ENERGY MANAGEMENT THERMOSTATS
EMRT1
Wired thermostat has occupancy sensor.

EMWRT1
Wireless thermostat has occupancy sensor.

EMOCT EMRAF EMRHCF
Online connection kit. Remote access fee. Remote humidity control fee.

DRAIN PAN (Required for large chassis models)
VPDP1
For VHA18 and VHA24 models. May be installed prior to chassis for easy installation/removal.
## SPECIFICATIONS

<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>
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<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><strong>COOLING BTU</strong></td>
<td>9400/7400</td>
<td>9400</td>
<td>12200/12000</td>
<td>12400</td>
<td>18200/18000</td>
<td>18000</td>
<td>23000/22800</td>
<td>22500</td>
</tr>
<tr>
<td><strong>POWER (W)</strong></td>
<td>905/905</td>
<td>915</td>
<td>1220/1200</td>
<td>1240</td>
<td>1825/1800</td>
<td>1815</td>
<td>2527/2505</td>
<td>2475</td>
</tr>
<tr>
<td><strong>EER</strong></td>
<td>10.4/10.4</td>
<td>10.3</td>
<td>10.0/10.0</td>
<td>10.0</td>
<td>10.0/10.0</td>
<td>10.0</td>
<td>9.1/9.1</td>
<td>9.1</td>
</tr>
<tr>
<td><strong>SENSIBLE HEAT RATIO</strong></td>
<td>0.76</td>
<td>0.77</td>
<td>0.75</td>
<td>0.75</td>
<td>0.66</td>
<td>0.70</td>
<td>0.70</td>
<td>0.70</td>
</tr>
<tr>
<td><strong>HEATER SIZE (kW)</strong></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>
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| **HEAT PUMP DATA** |        |        |        |        |        |        |        |        |
| **REVERSE HEATING BTU** | 8400/8400 | 8500 | 11100/10900 | 11300 | 16800/16400 | 16700 | 20000/20000 | 20000 |
| **COP @ 47°F** | 3.0/3.0 | 3.0 | 3.0/3.0 | 3.0 | 3.0/3.0 | 3.0 | 3.0/3.0 | 3.0 |
| **HEATING POWER (W)** | 830/830 | 820 | 1075/1050 | 1095 | 1650/1600 | 1620 | 1953/1953 | 1950 |
| **HEATING CURRENT (A)** | 4.0/4.0 | 3.2 | 5.0/5.3 | 4.5 | 7.8/8.3 | 6.9 | 8.5/9.4 | 8.1 |

| **ELECTRICAL DATA** |        |        |        |        |        |        |        |        |
| **VOLTAGE [1 PHASE, 60 HZ]** | 230/208 | 265 | 230/208 | 265 | 230/208 | 265 | 230/208 | 265 |
| **VOLT RANK** | 253-197 | 292/239 | 253-197 | 292/239 | 253-197 | 292-239 |
| **COOLING CURRENT (A)** | 4.3/4.3 | 3.5 | 5.7/5.9 | 5.1 | 8.6/9.2 | 7.6 | 10.9/10.6 | 9.7 |
| **AMPS L.R.** | 21.0 | 21.0 | 30.0 | 30.0 | 42.0 | 42.0 | 46.0 | 46.0 |
| **AMPS F.L.** | 3.5 | 3.5 | 4.8 | 4.8 | 7.8 | 7.8 | 9.5 | 9.5 |
| **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 | 1.2 | 1.2 | 0.42 | 1.9 | 1.8 |
| **OUTDOOR MOTOR (HP)** | — | — | — | — | 1/4 | 1/4 | 1/4 | 1/4 |
| **OUTDOOR MOTOR (A)** | — | — | — | — | 0.9 | 0.85 | 0.85 |

| **PHYSICAL** |        |        |        |        |        |        |        |        |
| **DIMENSIONS (W X D X H)** | 23"x23"x32" | 23x23x32 | 23"x23"x32" | 23x23x32 | 23"x23"x47" | 23x23x47" | 23"x23"x47" | 23x23x47" |
| **NET WEIGHT (LBS)** | 114 | 114 | 125 | 124 | 167 | 168 | 187 |
| **SHIPPING WEIGHT (LBS)** | 125 | 125 | 136 | 135 | 220 | 220 | 240 |
| **TEST SETTING** | LOW | LOW | LOW | LOW | HIGH | HIGH | LOW | LOW |
| **R410A CHARGE (OZ)** | 38 | 39 | 39.5 | 37 | 52.8 | 65 | 65 |

| **AIRFLOW DATA** |        |        |        |        |        |        |        |        |
| **INDOOR CFM** | LOW | HIGH | LOW | HIGH | LOW | HIGH | LOW | HIGH |
| **.10" ESP** | 420 | 450 | 420 | 450 | 390 | 450 | 420 | 465 |
| **.15" ESP** | 405 | 425 | 405 | 425 | 375 | 425 | 399 | 420 |
| **.20" ESP** | 385 | 400 | 385 | 400 | 350 | 400 | 350 | 380 |
| **.25" ESP** | 355 | 375 | 355 | 375 | 325 | 375 | 300 | 325 |
| **.30" ESP** | 320 | 350 | 320 | 350 | 320 | 350 | 255 | 280 |
| **VENT CFM** | LOW | HIGH | LOW | HIGH | LOW | HIGH | LOW | HIGH |
| **LOW** | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| **HIGH** | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |

*ASHRAE 90.1-2013 Compliant Model*

**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…420  VHA12…420
  VHA18…420  VHA24…610

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

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Friedrich Air Conditioning Co. | 10001 Reunion Place, Suite 500 | San Antonio, TX 78216 | 877.599.5665 | www.friedrich.com

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