

Vert-I-Pak®

# Single Package Vertical Air Conditioners

A BETTER SOLUTION FOR HOSPITALITY AND MULTIFAMILY



**FRIEDRICH**

1883



THE EXPERTS IN ROOM AIR CONDITIONING

# 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

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

1. Floating chassis design slides into a wall plenum and is held firmly in place by a sealing gasket, reducing noise from vibration transfer.
2. ½ inch foil-backed insulation added on the inside of the chassis to reduce sound transmission into the guest room.
3. All model efficiencies of 11.0 EER and 3.3 COP.
4. Condensate removal system uses slinger ring technology to cool the coil and increase efficiency.
5. Dynamically balanced blower with large, vibration-absorbing motor mounts for smooth and quiet operation.
6. Patented telescoping plenums (accessory) easily adapt to more installations.
7. 5 year limited warranty\*; 1 year labor warranty.

\* See warranty documentation for details.

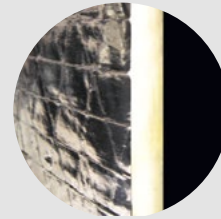
### What you'll find on many competitors' products

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.
2. No insulation on the unit to reduce noise transmission into the guest room.
3. Hard plastic feet on the unit base which are less durable and transfer harsh vibration noise.
4. Different plenums needed based on varying wall depths.
5. No labor warranty.

# ENGINEERED FOR QUIETER PERFORMANCE

## Friedrich's 'Free Floating' chassis design and superior insulation help to eliminate vibration noise

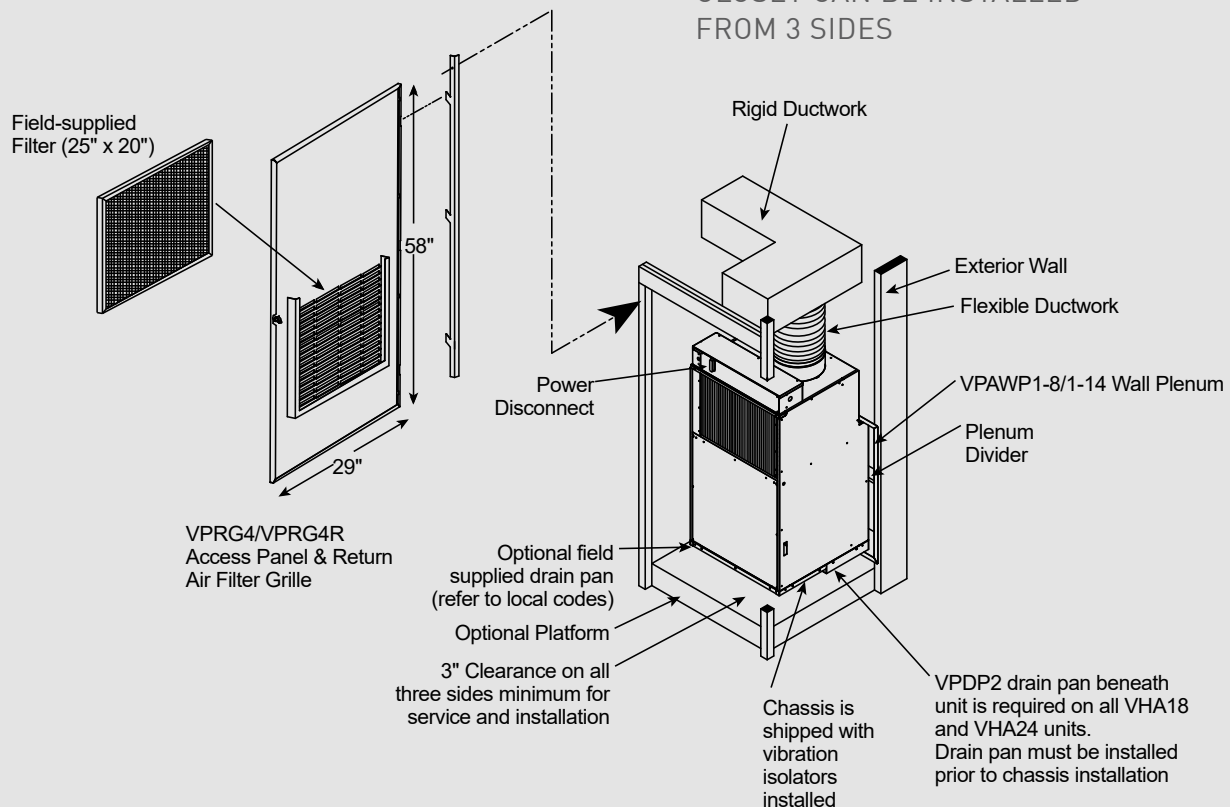
The chassis slides into the wall plenum and a gasket firmly seals the chassis to the patented telescoping plenum. This eliminates vibration noises that are transmitted into the room in competitors' metal-on-metal fixed installations. Extra thick, vibration-absorbing rubber grommets mounted on a durable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



Foil-backed, 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



## 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

  
**DIAMONBLUE**  
Advanced Corrosion Protection®



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

### 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

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

\* 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®



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## 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.

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## Wired or Wireless Installation

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

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## 5 Energy Savings Presets

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

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## 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.



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.

\*Requires an optional "Online Connection Kit" and a one-time license fee.

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## 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.

**FriedrichLink®**

*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<sup>9</sup>/<sub>16</sub>" W x 31<sup>1</sup>/<sub>16</sub>" H



VPAL2



VPAWP1-8/14

### 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<sup>1</sup>/<sub>2</sub>" – 8"

VPAWP1-14 telescopes from 8" – 14"

DIMENSIONS: 24<sup>1</sup>/<sub>8</sub>" W x 30<sup>3</sup>/<sub>8</sub>" H

CUTOUT DIMENSIONS: 24<sup>5</sup>/<sub>8</sub>" W x 30<sup>7</sup>/<sub>8</sub>" 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<sup>3</sup>/<sub>4</sub>" H



VPRG4/VPRG4R



VPRG4SD

### 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.



VPASA1

### 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.



RT7



RT7P



WRT2



EMRT2, EMWRT2

### ENERGY MANAGEMENT THERMOSTATS

#### EMRT2/EMWRT2

Wired/Wireless thermostat with occupancy sensor.

#### EMOCT

Online connection kit.

#### EMRAF

Remote access fee.

#### EMROS

Remote Occupancy Sensor

#### EMRTS

Remote Temperature

#### EMRDS

SensorDoor Switch

#### EMCWP

Wall Plate

#### EMRWOS

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.



VPDP2

# SPECIFICATIONS

MODEL	VHA09K	VHA09R	VHA12K	VHA12R	VHA18K	VHA18R	VHA24K	VHA24R								
<b>COOLING DATA</b>																
TOTAL COOLING CAP.	9300	9300	11500	11500	18400	18400	22500	22500								
SENSIBLE COOL CAP.	7440	7440	9085	9085	13430	13430	15750	15750								
POWER (W)	845	845	1045	1045	1670	1670	2045	2045								
EER	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0								
HEATER SIZE (kW)	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0/7.5/10.0	2.5/3.4/5.0/7.5/10.0								
<b>HEAT PUMP DATA</b>																
REVERSE HEATING BTU	8300	8300	10600	10600	16700	16700	19500	19500								
COP @ 47F	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3								
HEATING POWER (W)	730	730	940	940	1480	1480	1732	1732								
HEATING CURRENT (A)	3.6	3.1	4.5	3.7	7.0	6.1	9.2	9.2								
<b>ELECTRICAL DATA</b>																
VOLTAGE (1 PHASE, 60 HZ)	208-230	265	208-230	265	208-230	265	208-230	265								
VOLT RANGE	197-253	239-292	197-253	239-292	197-253	239-292	197-253	239-292								
COOLING CURRENT (A)	4.1	3.5	4.9	4.0	7.9	7.0	10.5	10.5								
AMPS L.R	21.0	21.0	23.0	23.0	37.0	37.0	44.0	44.0								
INDOOR MOTOR (HP)	1/4	1/4	1/4	1/4	1/4	1/4	1/5	1/5								
INDOOR MOTOR (A)	1.2	1.2	1.2	1.2	0.42	0.42	1.4	1.4								
OUTDOOR MOTOR (HP)	—	—	—	—	1/4	1/4	1/4	1/4								
OUTDOOR MOTOR (A)	—	—	—	—	1.6	1.6	1.7	1.7								
<b>PHYSICAL</b>																
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 32"	23" x 23" x 47"	23" x 23" x 47"	23" x 23" x 52"	23" x 23" x 52"								
NET WEIGHT (LBS)	142	144	147	149	190	192	225	227								
SHIPPING WEIGHT (LBS)	164	166	169	171	216	218	251	253								
TEST SETTING	LOW	LOW	LOW	LOW	LOW	LOW	LOW	LOW								
R410A CHARGE (OZ)	38.0	38.0	42.1	42.1	58.5	58.5	62	62								
<b>AIRFLOW DATA</b>																
INDOOR CFM	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
.10" ESP	430	490	430	490	430	490	430	490	630	675	630	675	660	700	660	700
.15" ESP	410	470	410	470	410	470	410	470	595	640	595	640	615	665	615	665
.20" ESP	360	440	360	440	360	440	360	440	550	600	550	600	575	625	575	625
.25" ESP	310	400	310	400	310	400	310	400	505	550	505	550	525	580	525	580
.30" ESP	260	350	260	350	260	350	260	350	455	500	455	500	485	540	485	540
.35" ESP	-	-	-	-	-	-	-	-	400	445	400	445	450	500	450	500
.40" ESP	-	-	-	-	-	-	-	-	345	400	345	400	415	465	415	465
<b>VENT CFM</b>																
UP TO " " CFM	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

**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.



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