VERT-I-PAK®

Single Package Vertical Air Conditioners

A better solution for hospitality and multifamily

FRIEDRICH
1883

QUIET OPERATION

INDUSTRY-LEADING
WARRANTY

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

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.

WATCH VIDEO ON
VERT-I-PAK® APPLICATIONS

Heat Pump

COOLING
9000–22500 Btu
All 11.0 EER

REVERSE HEATING
8200–19200 Btu
All 3.3 COP

AUXILIARY ELECTRIC HEATING
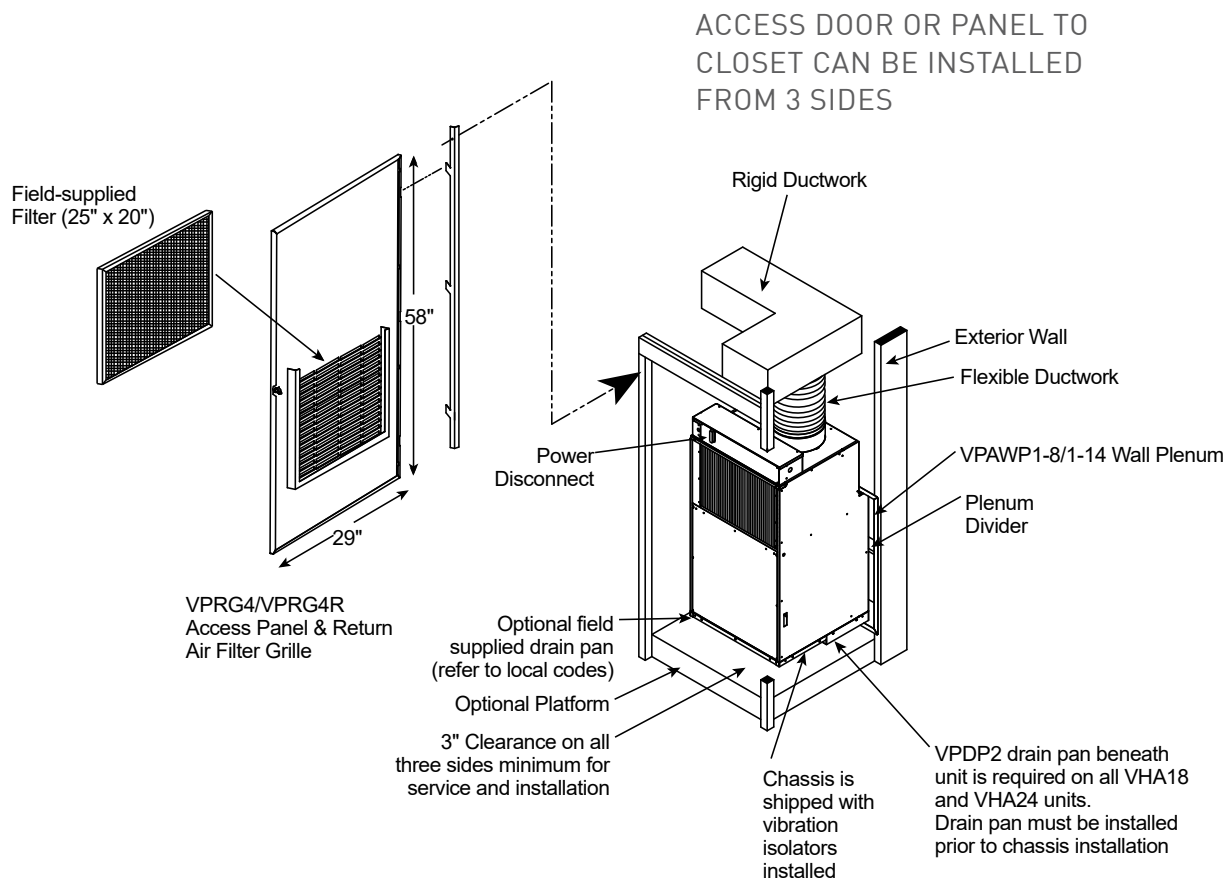7000–17000 Btu

ASHRAE 90.1-2013 Compliant

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.

Chassis slides into gasketed, telescoping wall plenum

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

Field-supplied Filter (25" x 20")

58"

29"

VPRG4/VPRG4R Access Panel & Return Air Filter Grille

Power Disconnect

Optional field supplied drain pan (refer to local codes)

Optional Platform

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

Chassis is shipped with vibration isolators installed

Rigid Ductwork

Exterior Wall

Flexible Ductwork

VPAWP1-8/1-14 Wall Plenum

Plenum Divider

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

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

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

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.

1 YR. PARTS & LABOR WARRANTY

5 YR. LIMITED WARRANTY

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.

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**

* 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 forfor 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.

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.

*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.

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 $^9/_{16}$" 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

VPAL2

VPAWP1-8/14

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.

VPRG4/VPRG4R   VPRG4SD

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

ENERGY MANAGEMENT THERMOSTATS

EMRT2/EMWRT2
Wired/Wirelss thermostat with occupancy sensor.

EMOCT	EMRAF	EMROS	
Online connection kit.	Remote access fee.	Remote Occupancy Sensor	
EMRTS	EMRDS	EMCWP	EMRWOS
Remote Temperature	SensorDoor Switch	Wall Plate	Wireless Occ. Sensor

WRT2   EMRT2, EMWRT2

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
COOLING DATA								
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
HEAT PUMP DATA								
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
ELECTRICAL DATA								
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
PHYSICAL								
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

AIRFLOW DATA

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

VENT CFM

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.

AHRI CERTIFIED
www.ahridirectory.org
Single Package Vertical HP
AHRI Standard 390

DDC CERTIFIED LAB PERFORMANCE TESTED
ULCDTP

ETL LISTED c ETL LISTED

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