Vert-I-Pak®
Single Package Vertical Air Conditioners

A BETTER SOLUTION FOR HOSPITALITY AND MULTIFAMILY

FRIEDRICH
1883

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

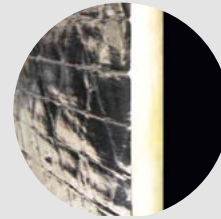| Advanced features you'll find on Friedrich Vert-I-Pak	What you'll find on many competitors' products
1. Floating chassis design slides into a wall plenum and is held firmly in place by a sealing gasket, reducing noise from vibration transfer.	1. Chassis is screwed into the wall plenum. Metal-on-metal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

ENGINEERED FOR QUIETER PERFORMANCE

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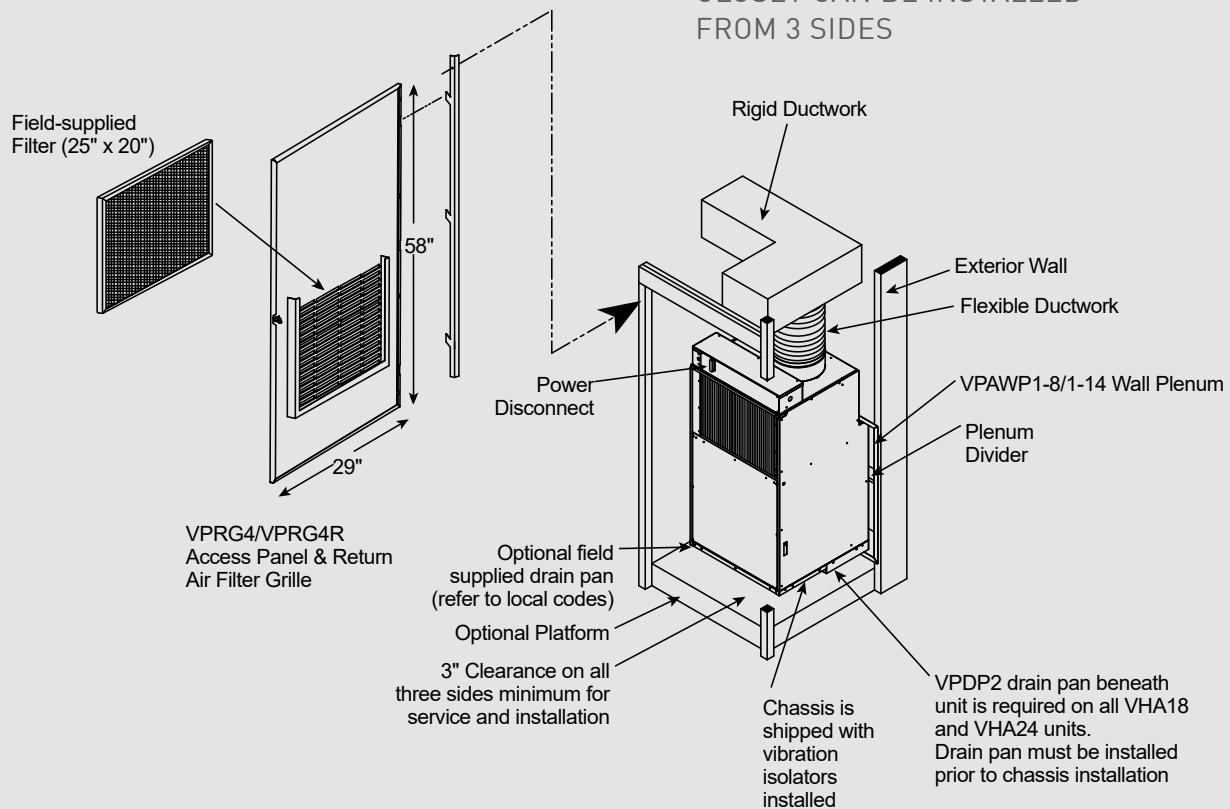
The chassis slides into the wall plenum and a gasket firmly seals the chassis to the patented telescoping plenum. This eliminates vibration noises that are transmitted into the room in competitors' metal-on-metal fixed installations. Extra thick, vibration-absorbing rubber grommets mounted on a durable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

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

Rigid Ductwork

Exterior Wall

Flexible Ductwork

VPAWP1-8/1-14 Wall Plenum

Plenum Divider

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

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 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.

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.

Wired or Wireless Installation

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

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

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.

FriedrichLink®

FriedrichLink® For Lodging

OPTIONAL 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

VPAL2

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

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

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 has two fan speeds and backlight. Controls Friedrich VERT-I-PAK.

RT7
Wired, single stage, wall-mounted digital thermostat has two fan speeds and backlight. Controls Friedrich VERT-I-PAK.

WRT2
Wireless, single stage, wall-mounted digital thermostat has two fan speeds and backlight. Controls Friedrich VERT-I-PAK.

RT7   RT7P

ENERGY MANAGEMENT THERMOSTATS

EMRT2
Wired thermostat has occupancy sensor.

EMWRT2
Wireless thermostat has occupancy sensor.

EMOCT   **EMRAF**
Online connection kit.   Remote license access fee.

WRT2   EMRT2, EMWRT2

DRAIN PAN (Required for large chassis 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.	9400/9000		9400	11400/11000		11400	18600/18000		18600	22500/22000		22500
SENSIBLE COOL CAP.	7600/7200		7600	9100/8700		9100	13600/13100		13600	16200/15400		16200
POWER (W)	864/818		864	1050/1000		1050	1691/1636		1691	TBD		TBD
EER	11.0/11.0		11.0	11.0/11.0		11.0	11.0/11.0		11.0	11.0/11.		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	8500/8200		8500	10800/10500		10800	17000/16500		17000	19200/18700		19200
COP @ 47F	3.3/3.3		3.3	3.3/3.3		3.3	3.3/3.3		3.3	3.3/3.3		3.3
HEATING POWER (W)	755/728		755	959/933		959	1510/1465		1510	TBD		TBD
HEATING CURRENT (A)	3.3/3.8		3.1	3.2/4.5		3.7	7.0/6.5		7.0	TBD		TBD
ELECTRICAL DATA												
VOLTAGE (1 PHASE, 60 HZ)	230/208		265	230/208		265	230/208		265	230/208		265
VOLT RANGE	253-197		292/239	253-197		292/239	253-197		292-239	253-197		292-239
COOLING CURRENT (A)	4.0/4.5		3.5	4.5/5.0		4.0	7.3/7.8		7.3	TBD		TBD
AMPS L.R	21.0		21.0	23.0		23.0	37.2		37.2	TBD		TBD
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		0.42	0.77		0.7
OUTDOOR MOTOR (HP)	—		—	—		—	1/4		1/4	1/4		1/4
OUTDOOR MOTOR (A)	—		—	—		—	0.9		0.9	TBD		TBD
PHYSICAL												
DIMENSIONS (W X D X H)	23"x23"x32"		23"x23"x32"	23"x23"x32"		23"x23"x32"	23"x23"x47"		23"x23"x47"	23"x23"x50"		23"x23"x50"
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	TBD		TBD

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	600	750	600	750	625	695	625	695
.15" ESP	410	470	410	470	410	470	410	470	550	720	550	720	575	665	575	665
.20" ESP	360	440	360	440	360	440	360	440	510	680	510	680	535	625	535	625
.25" ESP	310	400	310	400	310	400	310	400	460	650	460	650	485	595	485	595
.30" ESP	260	350	260	350	260	350	260	350	420	600	420	600	445	545	445	545

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....TBD
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 ®

FRIEDRICH