

Friedrich Vert-I-Pak® Series
Single Package Vertical Heat Pumps

VERT-I-PAK®



 **FRIEDRICH**

THE MOST HVAC SOLUTIONS FOR LODGING AND MULTIFAMILY

A better solution for hospitality & lodging

QUIET, ENERGY-EFFICIENT OPTION FOR SUITES, EXTENDED STAY PROPERTIES, AND COMMERCIAL SPACES.



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.



FreshAir IAQ READY

DIAMONBLUE[™]
Advanced Corrosion Protection



NEW VERT-I-PAK® Q SERIES

New higher efficiencies, increased performance levels, and added features

NEW Vert-I-Pak® “Q series”, single package heat pumps. The Q Series includes all of the legacy features of Vert-I-Pak® that our customers have enjoyed, such as ease of installation, now combined with higher efficiencies, increased performance levels, and exciting new features. Additionally, the New Q series maintains the existing Vert-I-Pak® footprint, making replacements as easy as ever.

All models will now be rated as a commercial air conditioner (AHRI 210/240) with SEER2 and HSPF2 as required by The Department of Energy.

As part of HSPF2 testing, these units will be able to provide efficient heat pump operation at lower temperatures (17°F) than the former series.

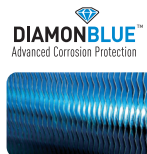


FEATURES

Same Features and Benefits as RTP Models, PLUS

New features

- Rated to SEER2 and HSPF2
- Higher indoor blower CFM
- Heat Pump operation down to 10°F
- Back up electric heat
- Active Defrost Cycle
- Lower breaker size than current models (in some cases)
- Rectangular conditioned air opening for all models
- Diamonblue™ Advanced Corrosion Protection on both the indoor and outdoor coils (summer 2024)



Active defrost

- Short Defrost Cycle
- Electric Heat during Defrost Cycle

Base pan heater

- No condensate ice build up in colder conditions
- Continuous operation

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.



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. 1/2 inch foil-backed insulation added on the inside of the chassis to reduce sound transmission into the guest room.
3. Condensate removal system uses slinger ring technology to cool the coil and increase efficiency.
4. Dynamically balanced blower with large, vibration-absorbing motor mounts for smooth and quiet operation.
5. Patented telescoping plenums (accessory) easily adapt to more installations.
6. 5 year limited warranty*; 1 year labor warranty.
7. A full suite of factory approved indoor air quality accessories designed to deliver healthy air

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.
6. No approved indoor air quality accessories

* See warranty documentation for details.

CAPACITIES UP TO 21,600 Btu/hr

COOLING

9,000–21,600
All 11.9 SEER2

REVERSE HEATING

8,200–18,500
All 6.3 HSPF2

AUXILIARY ELECTRIC HEATING

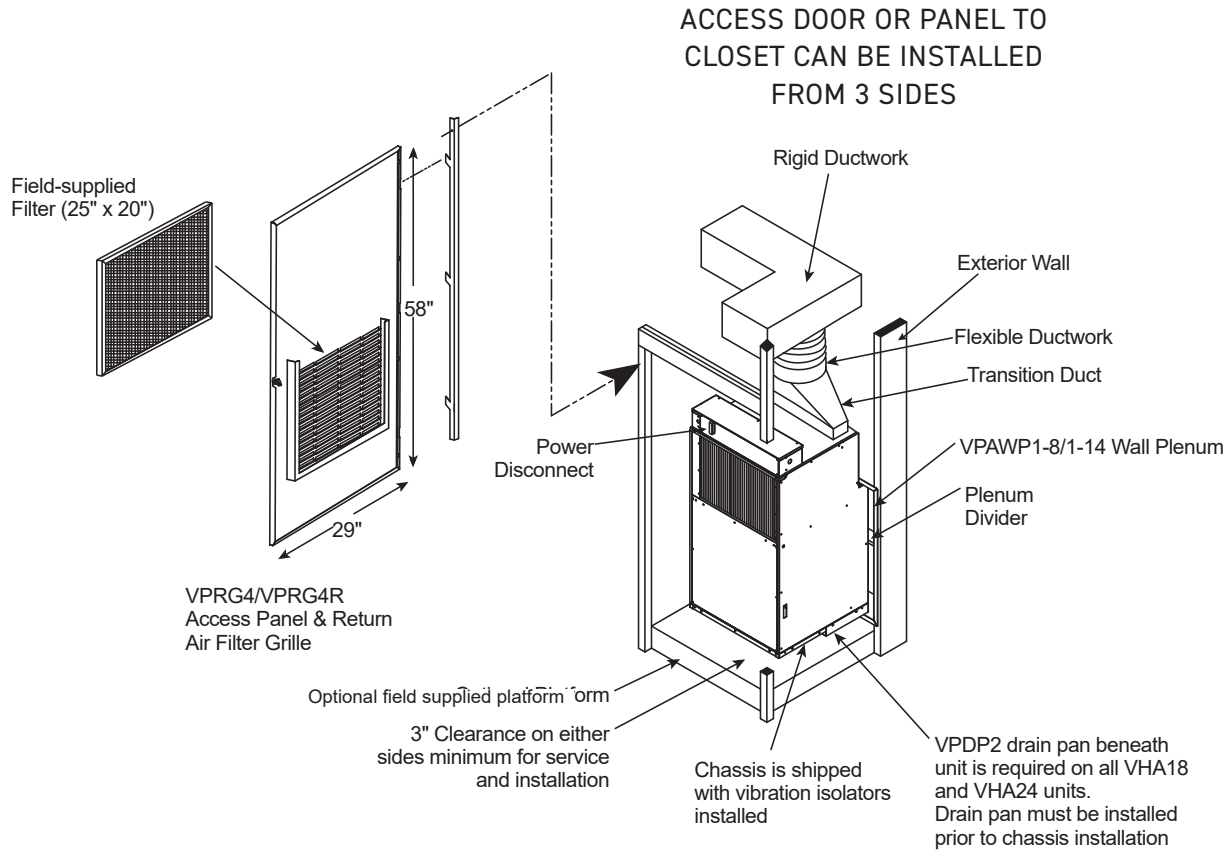
VHA09, VHA12
2.5/3.4/5.0

VHA18
2.5/3.4/5.0/7.5

VHA24
2.5/3.4/5.0/7.5/10.0



TYPICAL VERT-I-PAK® INSTALLATION



VERT-I-PAK® ADVANTAGES

Advanced Condensate Management

- Slinger Ring technology for Evaporative Cooling
- Primary condensate removal through ¾" pipe fittings from multiple sides of unit or drain pan*
- Secondary overflow lip on drain pan and drip edge on wall plenums

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

Easy installation

- Can be installed from any interior side (front, right or left)
- Ductable to multiple rooms
- Compact and lightweight
- Prewired, charged and piped
- Units are ready to install with only electrical hook up needed
- Patented telescoping wall plenums adjust to fit varying exterior wall thicknesses
- 24-volt remote wireless or wired thermostat ready

Intergrated Energy Management

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

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

FreshAire® IAQ Ready

- A full complement of Indoor Air Quality Products has been certified through installation and testing to ensure exceptional air quality is achieved when FreshAire® IAQ accessories are added

Reliable and durable

- BLDC (Brushless DC) 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

Low Ambient Ready

- Heat Pump Operation down to 10°F
- Integrated Base Pan heater
- Active Defrost Cycle
- Electric Heat during Defrost

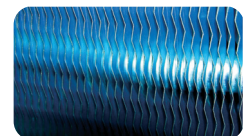
Warranty and Support

- 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.



See warranty documentation for full details

DIAMONBLUE™
Advanced Corrosion Protection



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

* VHA 18 and VHA24 models use gravity-fed drain pan (VPDP2).

** Energy management capability requires purchase of additional hardware and service fee

ENERGY MANAGEMENT | PTACS AND VERT-I-PAK®

Save big on energy

FRIEDRICHLINK® THERMOSTATS ARE THE ADVANCED ENERGY MANAGEMENT SOLUTION FOR FRIEDRICH PTAC AND 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.

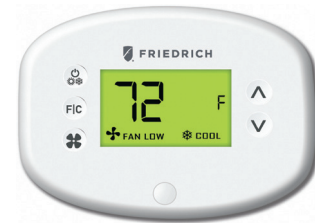
5 Energy Savings Presets

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.

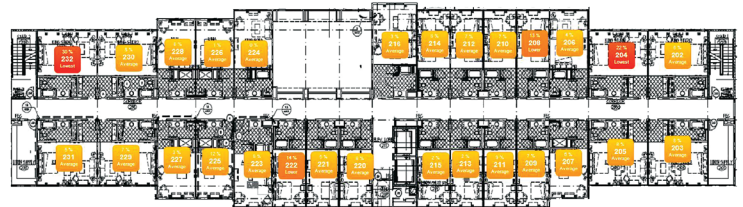
Built-in Wireless Networking enables remote management without using or interfering with property's existing wireless infrastructure. True mesh networking eliminates the need for additional networking equipment such as signal repeaters or multiple data collection boxes.



Friedrich's **EMRT2** 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.

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

VERT-I-PAK® ACCESSORIES

ARCHITECTURAL LOUVER

VPAL2/ VPAL-42 and VPSC2-42

Extruded aluminum grille that attaches to the outdoor section of the wall plenum. VPSC2 and VPSC2-42 can be ordered in custom colors.

VPAL2 and VPSC2: 30° blade angle

VPAL2-42 and VPSC2-42: 42° blade angle

DIMENSIONS: 25 9/16" W x 31 1/16" 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 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



VPRG4/VPRG4R



VPRG4SD

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-hinged access panel, the VPRG4R is a right-hinged access panel.

DIMENSIONS: 29" W x 58" H

CUTOUT DIMENSIONS: 27" W x 55 3/4" H



ASA1

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.



PDP2

DRAIN PAN (Required for VHA18 and VHA24 models)

VPDP2

Must be installed prior to chassis for easy installation/removal.

VERT-I-PAK® ACCESSORIES

HEAT PUMP THERMOSTATS

RT7P
Wired, heat pump, wall-mounted programmable thermostat with backlight.

RT7
Wired, heat pump, wall-mounted digital thermostat with backlight

WRT2
Wireless, heat pump, wall-mounted programmable thermostat with backlight.



RT7P



RT7

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 Occupancy Sensor



WRT2



EMRT2, EMWRT2

FreshAir® IAQ

Friedrich FreshAir® IAQ is a suite of products that includes industry-leading air quality technologies such as MERV 13 filtration, UV germicidal light and bi-polar ionization. Together, they represent a major leap forward in integrated HVAC air purification and rebuilding confidence for indoor environments.

FRESHHAIRE® MERV 13 FILTRATION

FreshAir MERV 13 filtration is effective at capturing and removing microorganisms from the air, which according to ASHRAE*, the leading authority on the science behind advanced indoor air quality, include harmful airborne viruses. **(Field supplied filter).**

FRESHHAIRE® MERV 13 FILTER bracket KITS

VPFK0912-2

2" MERV 13 filter bracket kit for VHA09, VHA12

VPFK0912U

2"-4" MERV 13 telescoping filter bracket kit for VHA09, VHA12

VPFK1824-2

2" MERV 13 filter bracket kit for VHA18, VHA24

VPFK1824U

2"-4" MERV 13 telescoping filter bracket kit for VHA18, VHA24

FRESHHAIRE® PURIFIER APWR1

FreshAir® Purifier by iWaves features needlepoint bi-polar ionization to address mold, bacteria, virus, allergens, and VOC's that may be in your air stream to ensure healthy, clean, purified air.

FRIEDRICH® UV UVT1

Germicidal UV light kits tested and certified for use on Friedrich Vert-I-Pak®. The UV kit can be installed on the evaporator coil and is designed to disinfect surfaces and the air as it circulates through the ventilation system. UV light can kill airborne bacteria, viruses, mold, reduce maintenance costs and extend the life of an HVAC system.

OUTSIDE AIR VENTILATION

All Friedrich Vert-I-Pak® units are manufactured featuring passive outside air ventilation. Up to 60 CFM of fresh outside air can be brought into the space during unit operation.



VPFK0912-2
VPFK1824-2



VPFK0912U
VPFK1824U



APWR1



UVT1

VERT-I-PAK® SPECIFICATIONS

MODEL	VHA09K	VHA09R	VHA12K	VHA12R	VHA18K	VHA18R	VHA24K	VHA24R
COOLING DATA								
Cooling Capacity @ 95°F (Btu/hr)	9000	9000	11000	11000	17600	17400	21800	21600
S.(Btu/hr)	6650	6650	8100	8100	12500	12500	15400	15000
SEER2	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
EER2	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
HEAT PUMP DATA								
Heating Capacity @ 47°F (Btu/hr)	8200	8200	10400	10400	16000	16000	18500	18500
Heating Capacity @ 17°F (Btu/hr)	4500	4500	5600	5600	9000	9000	12000	12000
hspf2	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
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	2.5/3.4/5.0/7.5	2.5/3.4/5.0/7.5	2.5/3.4/5.0/7.5/10.0	2.5/3.4/5.0/7.5/10.0
ELECTRICAL DATA								
Voltage (1 PHASE, 60 Hz)	208-230	265	208-230	265	208-230	265	208-230	265
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"
Refrigerant	R410A							
AIRFLOW DATA								
Ventilation CFM	UP TO 60 CFM							
Airflow (o.3") CFM	300		350		550		600	

NOTES:
 Test Ratings based on AHRI Standard 210/240-2023.
 Normal Value Wet Coil @ .3" ESP.





THE MOST HVAC SOLUTIONS FOR LODGING AND MULTIFAMILY



We are focused on innovating with intent, engineering solutions with lifetime sustainability in mind—from material selection to smart features to responsible recycling. And, our products are designed to meet our customers’ needs—lessening their environmental impact by giving them greater control over their energy consumption, as well as helping them decarbonize.

Due to continuing research in new energy-saving technology, specifications are subject to change without notice. Warranty limited to installations in the United States, Puerto Rico, Mexico and Canada only. See warranty documentation for full details.



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