



***FreshAire*<sup>®</sup> IAQ**  
HEALTHY AIR DELIVERED



THE EXPERTS IN ROOM AIR CONDITIONING

FreshAire® IAQ solutions incorporate ASHRAE-recommended protocol<sup>1</sup> to address indoor air quality and airborne transmissions. From MERV 13 filtration, to UV germicidal light, and bi-polar ionization, to our award-winning, patented FreshAire® make-up air system - together, these products represent a major leap forward in integrated HVAC air purification and rebuilding confidence for indoor environments.

As your room air experts, Friedrich remains committed to improving the air you breathe with our newest innovation, FreshAire® IAQ solutions - indoor air quality options for use with Friedrich Air Conditioners, all with one dedicated purpose - healthy indoor air.

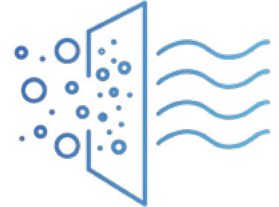


# FRIEDRICH

## FreshAire® MERV 13 filtration

FreshAire® MERV 13 filtration is effective at capturing and removing microorganisms from the air, which according to ASHRAE<sup>1</sup>, the leading authority on the science behind advanced indoor air quality, include harmful airborne viruses.

Available on VRP®, Vert-I-Pak®, and Kühl®- the first and only window air conditioner capable of MERV 13 filtration.



## Friedrich® UV

Germicidal UV light kits have been tested and certified for use on Friedrich products. The UV kit can be installed on the indoor coil or supply air plenum 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.

Optional accessory available on Ductless Split Systems, VRP®, Vert-I-Pak®, FreshAire®, ZoneAire® Premier and ZoneAire® Select PTAC lines



## FreshAire® Purifier by iWave

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

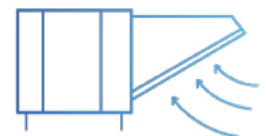
Optional accessory available on Ductless Split Systems, VRP®, Vert-I-Pak®, FreshAire®, ZoneAire® Premier and ZoneAire® Select PTAC lines



## FreshAire® Make-up Air (MUA) System

Dedicated, active MUA system to deliver filtered and treated fresh outdoor air. Precision Inverter® compressor and patented FreshAire® make-up air system brings in outdoor air, then conditions and filters it before introducing it into the space. This award-winning technology helps achieve ASHRAE 62.1 requirements. The result is a revolutionary HVAC product capable of unparalleled indoor air quality and optimal temperature and humidity control.

Available on FreshAire® PTAC and VRP®



# ROOM AIR CONDITIONERS

## Kühl® is the only room air conditioner with available MERV 13 filtration

Maintaining the best indoor air quality possible requires that you prevent harmful pollutants from circulating throughout the space. One way to prevent this is to trap the pollutants with mechanical filtration

Kühl® is the only window air conditioner that can utilize an optional MERV 13 air filter, which is at least 85% efficient at capturing particles between 1 and 3 microns in size and up to 50% efficient in filtering particles between 0.30 and 1 micron in size such as bacteria and sneeze nuclei.



### FEATURES

- Integrated Wi-Fi control from smartphone with the FriedrichConnect® app
- Smart home ready, Amazon Alexa or Google Home compatible
- QuietMaster® technology for up to 45% quieter<sup>2</sup> operation versus competitor's models
- Auto-changeover between cooling & heating modes
- Commercial grade, totally-enclosed fan motor
- Temperature limiting for max. low and high settings
- Dual air filtration - carbon filter that absorbs odors
- Sleeve dimensions unchanged for over 45 years

## What is a MERV rating?

An air filter's minimum efficient reporting value (MERV) rating measures how effectively the filter stops dust and other contaminants from passing through the filter and into the air stream. Filters with higher MERV ratings trap small particles more effectively than filters with lower MERV ratings.

### AVAILABLE FRESH Aire® IAQ ACCESSORIES

#### FRESH Aire® MERV 13 FILTRATION

FreshAire® MERV 13 filtration is effective at capturing and removing microorganisms from the air, which according to ASHRAE<sup>2</sup>, the leading authority on the science behind advanced indoor air quality, include harmful airborne viruses.



# VARIABLE REFRIGERANT PACKAGED HEAT PUMPS

## VRF Performance and Single Package Simplicity



Friedrich VRP® delivers exceptional indoor air quality when you elect to match VRP's integrated make up air capability, optional reheat coil (dehumidification) along with our full compliment of FreshAir® IAQ components.

### FEATURES

- VRF performance in a packaged unit
- SEER2 up to 15.0 and HSPF2 up to 7.0
- Up to 130 CFM of conditioned and filtered outside-air delivery options
- Sophisticated humidity control system
- Variable speed compressor and fan motors

## AVAILABLE FRESHAIR® IAQ ACCESSORIES

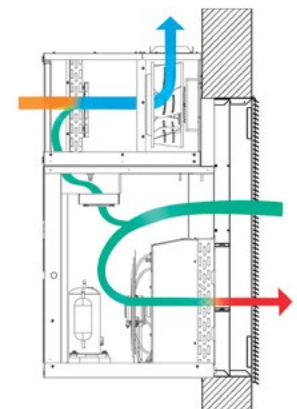
### FRESHAIR® MERV 13 FILTRATION

FreshAir® MERV 13 filtration is effective at capturing and removing microorganisms from the air, which according to ASHRAE<sup>2</sup>, the leading authority on the science behind advanced indoor air quality, include harmful airborne viruses.



### FRESHAIR® MAKE UP AIR (MUA) & FILTRATION

Award-winning FreshAir MUA system helps achieve ASHRAE 62.1-2013 requirements, and brings up to 130 CFM of conditioned, MERV 8 filtered, outside air into the space. Patented FreshAir® technology uses the Precision Inverter® compressor and main cooling system to optimize temperature and humidity level of incoming air while MERV 8 filtration traps particles and pollutants.



### FRESHAIR® PURIFIER BY iWAVE® APWM1, APWR1

FreshAir® Purifier by iWaves features needlepoint bi-polar ionization to address any mold, bacteria, virus, allergens, and VOC's that may be in your air stream to ensure delivery of healthy, clean, purified air. APWM1 fits VRP Studio, APWR1 fits all other VRP models.

[MORE INFORMATION ON APWM1](#) [MORE INFORMATION ON APWR1](#)



### FRIEDRICH® UV UVT1, UVL1

Germicidal UV light kits V have been tested and certified for use on Friedrich VRP® packaged units. The UV kit can be installed on the fan coil or in the supply plenum 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. Optional accessory for VRP equipment.

[MORE INFORMATION ON UVT1](#) [MORE INFORMATION ON UVL1](#)

# SINGLE PACKAGE VERTICAL AIR CONDITIONERS

## A Better Solution for Hospitality and Multifamily Suites

Friedrich Vert-I-Pak® is 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.



### FEATURES

- Completely self-contained
- No refrigerant lines running from floor-to-floor
- Fast, easy replacement keeps spaces livable
- Back up auxiliary electric heat
- Duct air specifically where it's needed, not just on the outside wall
- Wired and wireless options for energy management

## AVAILABLE FRESHIRE® IAQ ACCESSORIES

### FRESHIRE® MERV 13 FILTRATION

FreshAire® 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.



### FRESHIRE® PURIFIER BY iWAVE® APWM1, APWR1

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

[MORE INFORMATION ON APWM1](#)

[MORE INFORMATION ON APWR1](#)



### FRIEDRICH® UV UVT1, UVL1

Germicidal UV light kits have been tested and certified for use on Friedrich Vert-I-Pak® packaged units. The UV kit can be installed on the fan 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.

[MORE INFORMATION ON UVT1](#)

[MORE INFORMATION ON UVL1](#)



# PACKAGED TERMINAL AIR CONDITIONERS

## The Most Trusted Brand of PTACs

Friedrich has a 3-tier line up of PTACs.

ZoneAire® Select is a truly exceptional PTAC value line with reliable performance. ZoneAire® Premier is our most efficient and quietest standard PTAC. FreshAire® PTAC is the most advanced PTAC ever, with the ability to bring in up to 52 CFM of conditioned, MERV 8 filtered outside air into the guestroom.

### FEATURES

- Up to 13.0 EER
- Quiet, smooth tangential fan
- Precision Inverter® compressor on FreshAire® PTAC
- Advanced corrosion protection standard
- Aluminum endplates resist corrosion
- Fits existing 16" x 42" sleeves



## AVAILABLE FRESHHAIRE® IAQ ACCESSORIES

### FRESHHAIRE® MAKE UP AIR (MUA) & FILTRATION

Award-winning FreshAire® MUA system helps achieve ASHRAE 62.1-2013 requirements, and brings up to 52 CFM of conditioned, MERV 8 filtered, outside air into the space. Patented FreshAire® technology uses the Precision Inverter® compressor and main cooling system to optimize temperature and humidity level of incoming air while MERV 8 filtration traps particles and pollutants.



### FRESHHAIRE® PURIFIER BY IWAVE® APWM1

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

[MORE INFORMATION ON APWM1](#)



### FRIEDRICH® UV UVT1

Germicidal UV light kits have been tested and certified for use on Friedrich PTACs. The UV kit can be installed on the fan 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

[MORE INFORMATION ON UVT1](#)



# DUCTLESS SPLIT SYSTEMS

## The Contractor's Choice For Ductless



Friedrich has a 3-tier line up of ductless splits. ZoneAire® Select is our entry-level line with excellent efficiency and outstanding quality. ZoneAire® Pro offers high SEERs and our exclusive FastPro® design that saves time on installation and maintenance. ZoneAire® Premier has all the features of the Pro line with our highest efficiencies ever.

### WALL-MOUNTED FEATURES

- FastPro® design\* - the easiest ductless to install, clean and service-A few steps to access the blower wheel assembly and pull it out for full access to the indoor coil
- Easy-to-remove modular drainpan assembly
- Low ambient down to 5°F (cooling mode), Low ambient down to -4°F (heating mode)

\* Feature available on select models

### CASSETTE FEATURES

- Independent air louver control
- Surge - super high fan speed quickly cools or heats room
- Single and multi zone systems
- NOTE: Grilles are sold separately

## AVAILABLE FRESHAIRE® IAQ ACCESSORIES

### FRESHAIRE® PURIFIER BY IWAVE® APWM1

FreshAire® Purifier by iWave features needlepoint bi-polar ionization to address any mold, bacteria, virus, allergens, and VOC's that may be in your air stream to ensure delivery of healthy, clean, purified air. iWave-M is a flexible ion-generating bar that can treat IAQ in nearly any HVAC application. The iWave-M is the most versatile and novel product on the market to address air quality for any HVAC system, in particular to solve mold issues common in hard-to-clean ductless systems.

[MORE INFORMATION ON APWM1](#)

### FRIEDRICH® UV UVL1

UVL1 (Mini-UV LED) is the first-of-its-kind UV light LED system for mini-splits. Like all A/C systems, mini-splits are prone to internal mold growth and microbial contamination, particularly on and near the blower wheel. The LED light strip in UVL1 is designed for installation on the indoor coil 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 while having no impact on the plastic material.

[MORE INFORMATION ON UVL1](#)





# HEALTHY AIR DELIVERED

*Germicidal UV Light Kit For Use  
With Friedrich PTACs, Vert-I-Pak®  
and VRP®*



## FRIEDRICH® UV UVT1

The UV1 Kit makes it possible to realize all the benefits of germicidal UV light in limited space applications including most of the fan coil units and PTACs found on the market today. The kit features a low-profile lamp with metal shield and mounting magnet as a means for locating the UV light within these units for optimum UV exposure particularly where space is limited. Options include 18-32 or 110-277 VAC power supplies and 1 or 2 year compact UV-C lamps.

### FEATURES

- Installs in the tightest spaces such as PTACs and Fan Coil Units
- Weather resistant remote mountable UV lamps with magnetic mounting shield
- 18-32 or 110-277 VAC power supply with flexible mounting options
- 2 Year & Odor Control lamp options
- Lifetime Warranty on all parts except lamp

### BENEFITS

- Kills airborne mold, bacteria, and viruses
- Provides a healthier indoor environment
- Kills mold, bacteria, and viruses where they lurk
- Reduces system maintenance• Reduces household odors

# HEALTHY AIR DELIVERED

## *Germicidal UV Light Kit For Use With Friedrich Floating Air® Ductless Mini-splits*



### **FRIEDRICH® UV UVL1**

UVL1 (Mini-UV LED) is the first-of-its-kind UV light LED system for mini-splits. Like all A/C systems, mini-splits are prone to internal mold growth and microbial contamination, particularly on and near the blower wheel. The LED light strip in UVL1 is designed for installation on the indoor coil 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 while having no impact on the plastic material.

UVL1 light kits have been tested and certified for use with Friedrich Floating Air® Ductless wall-mounts and cassettes.

#### **FEATURES**

- UV LED spectrum is safe for eyes & plastics
- 5+ years effective replaceable LEDs
- Cut-to-length 40" LED strip 120-277 VAC power supply
- 50,000 hour+ expected LED life
- 5-year warranty on all parts\* (\*through Fresh-Aire UV) BENEFITS
- Maintains a clean mini-split system free from mold and microbial growth
- Saves energy/reduces maintenance costs
- Extends life of mini-split system
- Improves indoor air quality (IAQ) Cleaner

#### **SPECIFICATIONS**

**Dimensions** LED strip: 40" L x 0.375" H.

**Weight:** 1 lb.

**Electrical:** 120, 230, 277 V ~ 0.47 A, 50/60 Hz PF  $\geq$  0.9, THD  $\leq$  20%

**Kit Includes:** LED strip, LED driver, #8 panscrews, Panduit straps, warning stickers and manual

# HEALTHY AIR DELIVERED



## FRESH-AIRE® PURIFIER BY IWAVE® APWR1

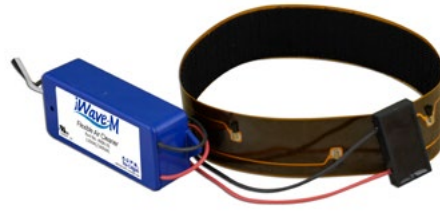
FreshAire® Purifier by iWave- APWR1 is the world's first self-cleaning, no maintenance needlepoint bi-polar ionization generator designed specifically for treating air in residential duct A/C systems. As the air flows past the iWave-R, positive and negative ions actively purify the supply air, killing mold, bacteria and viruses in the coil and living space. The ionization process also reduces allergens, smoke and static electricity, as well as controlling odors (cooking, pet, VOCs) and other particles (no more sunbeams) in the air without creating ozone or any harmful byproducts.

iWave-R treats the air in any brand of residential duct air conditioning systems up to 6 tons (2400 CFM) in size with no maintenance and no replacement parts. Designed for universal mounting, the iWave-R is easy to install inside or outside of duct, or can be attached magnetically near the indoor fan in the air handler. Simply connect to power using its patented voltage input capability. Install between air filter and cooling coil to treat the indoor coil; as an alternative, the iWave-R can be installed in the supply air. iWave-R always works at peak performance, producing over 160 million ions/cc per polarity (320 million total ions/cc), more than any other ionizer product on the market. Its patent-pending self-cleaning design includes a programmable cleaning cycle that can clean the emitter brushes every 1, 3, 5 or 10 days. The iWave-R is factory set to clean every third day which is adequate for a typical installation. iWave-R does not create "black walls" as negative-only ionizer products will do.

### FEATURES

- Patented self-cleaning design ensures ongoing peak performance
- Needlepoint ionization actively treats air in the living space
- For duct systems up to 6 tons (2400 CFM)
- Easily installs in minutes in A/C system
- Universal voltage input – 24VAC to 240VAC!
- Universal mounting with magnets
- OEM Approved

# HEALTHY AIR DELIVERED



## FRESHAIRE® PURIFIER BY IWAVE® APWM1

FreshAire® Purifier by iWave features needlepoint bi-polar ionization to address any mold, bacteria, virus, allergens, and VOC's that may be in your air stream to ensure delivery of healthy, clean, purified air. iWave-M is a flexible ion-generating bar that can treat IAQ in nearly any HVAC application. The air purifier provides the highest level of ionization energy in the most compact size available in the market, producing 35 million ions/cc. The highly versatile iWave-M is low maintenance with no replacement parts. As the air flows past the iWave-M, the device emits positive and negative ions, creating a plasma region that purifies the air, killing mold, bacteria and viruses in the coil and living space. The ionization process also reduces allergens, smoke and static electricity, as well as controlling odors (cooking, pet, VOCs) and other particles (no more sunbeams) in the air without creating ozone or any harmful byproducts.

iWave-M's revolutionary circuit bar with special integrated ion-generating needles fits any HVAC cooling coil up to 1600CFM. The circuit bar is chemical resistant and highly durable for long service life. Plus, it can be folded to length in the field to any size and uses hook and loop fastener material for the flexible bar and power pack for easy installation. It is perfect for ductless HVAC systems – specifically mini-splits, commercial VRF coils, PTAC systems. The iWave-M is the most versatile and novel product on the market to address air quality for any HVAC system, in particular to solve mold issues common in hard-to-clean ductless systems.

### FEATURES

- Special ion needles routed in a flexible bar circuit
- Compact design applicable for any HVAC systems up to 1,600 CFM
- Can flex easily in the field to accommodate virtually any application - ideal for ductless systems
- 3-year warranty\* (\*through Nu-Calgon)
- No replacement parts
- Flexible voltage input – 110VAC to 240VAC
- OEM Approved

<sup>1</sup>Based on ASHRAE Guidance for Building Operations During the COVID-19 Pandemic

<sup>2</sup>Based on testing conducted at Friedrich's Design and Development Center in comparison to leading rotary compressor models.