



FRIEDRICH

Commercial Air



Boldly Crafted
COMMERCIAL SOLUTIONS

The Friedrich Difference

For every building, reliable, cost-efficient heating & cooling is not an option... it is an absolute necessity.



Whether you're looking to keep a workplace cool and productive, students attentive, building occupants collaborative or need to ensure optimal conditions for climate-sensitive materials, Friedrich® commercial equipment can get the job done. A proud member of Rheem® Family of Brands, the Friedrich commercial brand includes a full line of industry-standard R-454B commercial products—up to 30 tons—produced by one of the world's leading manufacturers of central heating & cooling products.

Rheem Manufacturing's History

Rheem Manufacturing Company was established in 1925 when brothers Richard and Donald Friedrich acquired a galvanizing plant in San Francisco, California. In 1930, Rheem Manufacturing Company was incorporated and expanded its product line to include boilers and tanks, and opened a plant for these water heating products.

Throughout the 1940s and 1950s, the company continued to expand its product line, most notably entering the central heating and air conditioning market, as well as the home appliance market, with the introduction of gas stoves.

Through the 1970s, Rheem experienced rapid expansion across both its water heating and air conditioning lines. The company also continued to explore new industries, venturing into everything from bathroom fixtures to musical instruments. In 1985, Rheem acquired Raypak, a leading producer of copper tube boilers used for swimming pool heating, commercial hot water supply and hydronic heating—rounding out its water heating offering. Friedrich joined the Rheem family in 2023, bringing their expertise in ductless room air conditioning.

Total Comfort Solutions Provider

Friedrich is a global brand sold across the world with full breadth solutions covering commercial and residential heating & cooling products, water heating products, indoor air quality solutions, and commercial refrigeration products—making us a one-stop Air, Water and Refrigeration solutions provider.

National Accounts

From supplying innovative energy- and cost-saving equipment to streamlining service, installation and maintenance across entire operations, our National Accounts program keeps businesses running smoothly, economically and comfortably. Offering a concierge-inspired service model and the absolute best heating & cooling and water heating systems available on the market, we are uniquely equipped to provide customized, one-source solutions to fit the needs of our commercial clients.



A proud member of the Rheem® family

Global Reach. Local Impact.

Friedrich commercial air products are designed, engineered and manufactured in Fort Smith, Arkansas, and our equipment is available through our vast network of distributors, which means local support and parts availability, should the need arise. We're committed to being a responsible corporate partner and supporting our local communities.

Mission Control

The Friedrich commercial product line is designed and produced in Fort Smith, Arkansas.

The manufacturing facility, measuring over 19.8 acres under one roof, is dedicated to the development and production of equipment guaranteed to satisfy the comfort requirements of buildings throughout the country.

Expertly designed and rigorously tested, many Friedrich Commercial models meet the requirements of both the Buy American Act (BAA) and Build America Buy America Act (BABA). Products' domestic content has been certified by a third-party. For a full list of models that meet BAA and BABA criteria, contact us for a copy of the Certification Letter.



Look for these icons to identify models that meet The Buy American Act (BAA) and Build America, Buy America (BABA) Act requirements.



Business Solutions

Multi-million dollar testing facilities are utilized to create the heavy-duty business solutions you depend on. **Every commercial unit undergoes a complete and unrelenting system of evaluation and testing to ensure its quality and reliability.** The ability to withstand rigorous salt spray testing in operating conditions from 0-125°F demonstrates that Friedrich commercial units are the toughest in the industry. Our lean manufacturing focus, including state-of-the-art machinery, provides the flexibility required to integrate new innovative designs quickly, ensuring swift product introduction and availability. Nothing is spared when it comes to advancing the value of our commercial equipment.

Technology Innovations

Friedrich® PlusOne® ClearControl™ empowers building owners with greater control and flexibility over their commercial HVAC units.

ClearControl boasts several key features that help make Friedrich HVAC units a leading choice among contractors, HVAC system specifiers and building owners, including:

1 Factory-installed Sensors

Eliminate the need for additional sensor installation, saving on expensive labor costs and valuable time on the job site, and rest easy knowing it all comes installed from the factory. These sensors include a clogged filter switch (CFS), fan proving switch (FPS), return air temperature (RAT), discharge air temperature (DAT) and outdoor air temperature (OAT).

2 Open Communication Protocols

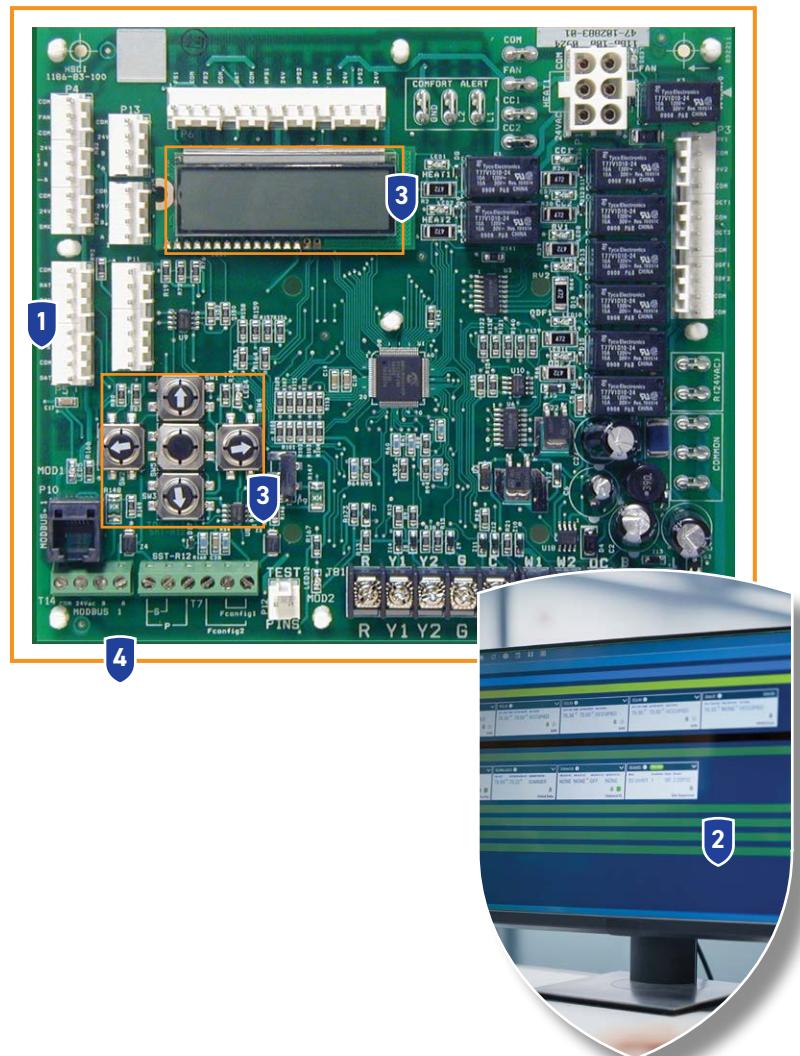
Run the HVAC system independently or integrate it easily with a building automation system (BAS) for centralized control and optimization with BACnet®, LonWorks® or MODBUS®.

3 User-friendly Interface

Experience improved troubleshooting and maintenance with a simple keypad menu and a two-line, 16-character LCD display that clearly identifies system status and takes the guesswork out of equipment diagnosis, without a computer or specialized equipment. By eliminating complicated codes or lights, which can be time-consuming to interpret, and adding an intuitive keypad that is easy to navigate for evaluating system settings, status information and diagnostics, ClearControl positively impacts ease of service.

4 Cost-effective Embedded Controls

Avoid the additional labor, hardware and material costs associated with a proprietary communication protocol. Factory-installed ClearControl, along with all necessary hardware, achieves this by reducing the number of devices, added controllers and specialized labor required to install and program at a building site.





Available in Renaissance™ and Resolute™ units, ClearControl™ enables real-time system access, monitoring and communication between commercial units worldwide.

		Outputs
Power	18-30VAC, 50-60Hz, 15VA power consumption	
Environmental Operating Range	-40° to 158°F (-40° to 70°C), 10-95% RH non-condensing	
Communication Ports	Modbus RTU with Baud rate of 19,200 bits/sec, giving access to 90+ configurable data points and 70+ information points	
Optional Plug-ins		Compressor Heat Fan Reversing Valve Outdoor Fan 24V Thermostat Signal Fault Indicator
Status Indication	Visual (LED) status of serial communication, running, errors, power, all digital outputs	Inputs
Display	Two-line, 16-character LCD screen	High / Low Pressure Freeze Stat Space Temperature Return Air Temperature Supply Air Temperature Outdoor Air Temperature Outdoor Coil Temperature Enthalpy Status Set Point Adjustment Fan Status Filter Status Occupied / Unoccupied Unit Operation Field-configurable Voltage or Resistance
Protection	Built-in high or low voltage protection circuitry, external circuit breaker or fuse on secondary voltage required	
Listed By	FCC Part 15 - Subpart B - Class A. UL, UL Canada, and European Community (CE) standards for industrial applications	
Overall Dimensions	7" (width) x 6-1/4" (height) x 1-1/4" (depth) 180mm (width) x 160mm (height) x 50mm (recommended panel depth)	



Technology Innovations

Available in Renaissance™ and Resolute™ units, Friedrich PlusOne® HumidiDry® dehumidifies like no other.

HumidiDry provides maximum humidity control without compromising the desired temperature set point. As one of our signature works of technology, it keeps humidity levels constant even when there's little or no demand for air conditioning. HumidiDry gives business owners independent control of temperature and humidity, delivering a high degree of energy savings, performance and comfort.

Improved Comfort

Maintains a comfortable indoor humidity level, even when the temperature is not hot enough to require cooling—keeping occupants comfortable and improving indoor air quality.

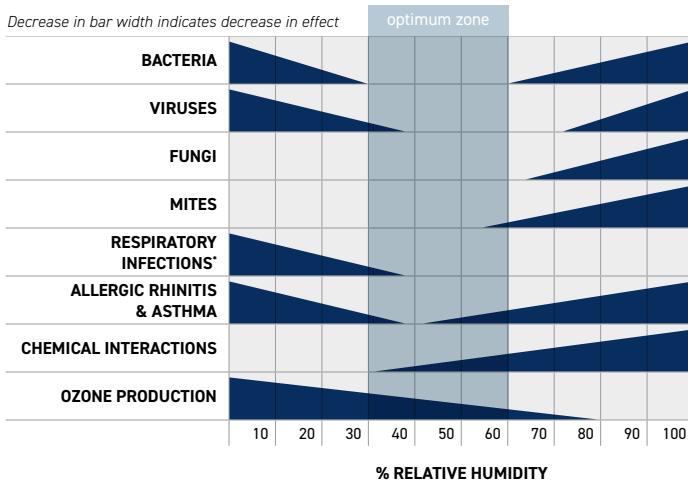
Enhanced Durability

HumidiDry uses a fan motor to vary the capacity of the reheat instead of modulating valves within the refrigerant circuit and making constant adjustments, prolonging unit reliability.



Ideal Humidity

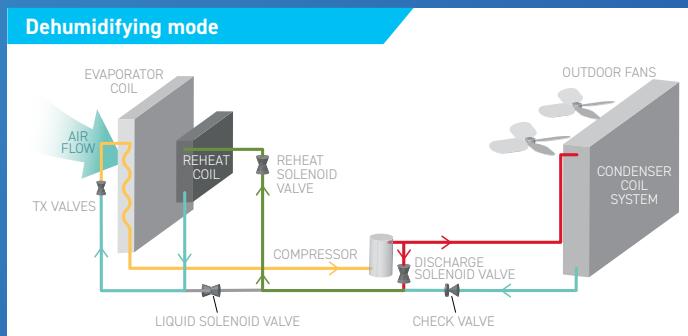
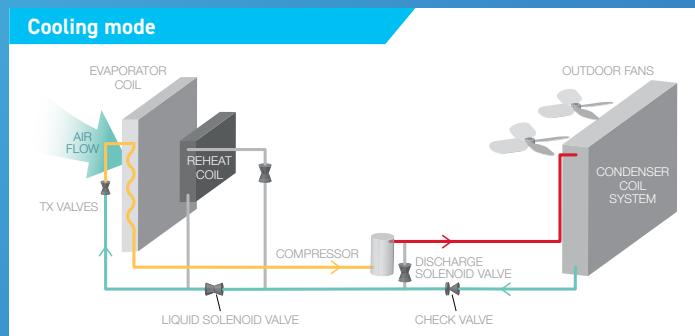
Decrease in bar width indicates decrease in effect



Source: Environmental Health Perspectives

*Insufficient data above 50% relative humidity

The Science of Dehumidification



- HumidiDry is controlled by a thermostat and a humidistat. The thermostat takes priority on single-stage systems.
- When the thermostat is activated by temperatures that exceed its set point, HumidiDry operates like a standard rooftop unit. It can operate on first-stage cooling when demand is low or at full capacity when air conditioning load is high. Unlike other rooftop or reheat units, HumidiDry is uniquely designed so the VFD will operate at a low speed, increasing moisture removal during first-stage cooling operation. This provides an initial defense for controlling humidity.

- When the temperature is desirable but humidity exceeds the humidistat set point, HumidiDry initiates a dehumidification cycle using a combination of hot gas and subcooling reheat. During this cycle, HumidiDry delivers dry, neutral air.
- On the two-stage system, it is possible for both the thermostat and humidistat to register readings above set point. Under this condition, the first-stage system runs in the dehumidification cycle, the second-stage system runs in a cooling cycle and VFD operates on high speed. This provides dry, conditioned air.

The Friedrich PlusOne® ServiceSmart Package Offers Built-in Features for Quick Troubleshooting and Easy Access.

The ServiceSmart package includes:

Qwik-slide Blower Assembly

Easy access and slide-out removal of blower assembly to service internal components.



Single-point Wiring

A single-point wiring harness allows for a streamlined installation by reducing the field wire runs needed to connect the system.

Qwik-clean Drain Pan

Composite material pan that slides out completely for easy cleaning with the removal of four screws and features an overflow sensor.

Qwik-change flex-fit Rack

Patented design allows easy changeover between 2" and 4" filters with standard and readily available sizes.

Qwik-slide Heat Exchanger

Easy to access, slide-out VelociFin® heat exchanger assembly that saves contractors time with a patented design.

External Gauge Ports

Enables HVAC professionals to measure operating pressures without opening cabinet panels for a true reading of actual unit performance.

Hinged Access Panels & Prop Rods

Minimizes time spent on screws with easy, hinged access to the unit interior and prop rods to hold doors open for HVAC professionals.



Commercial Packaged Systems

renaissance™
COMMERCIAL HVAC LINE

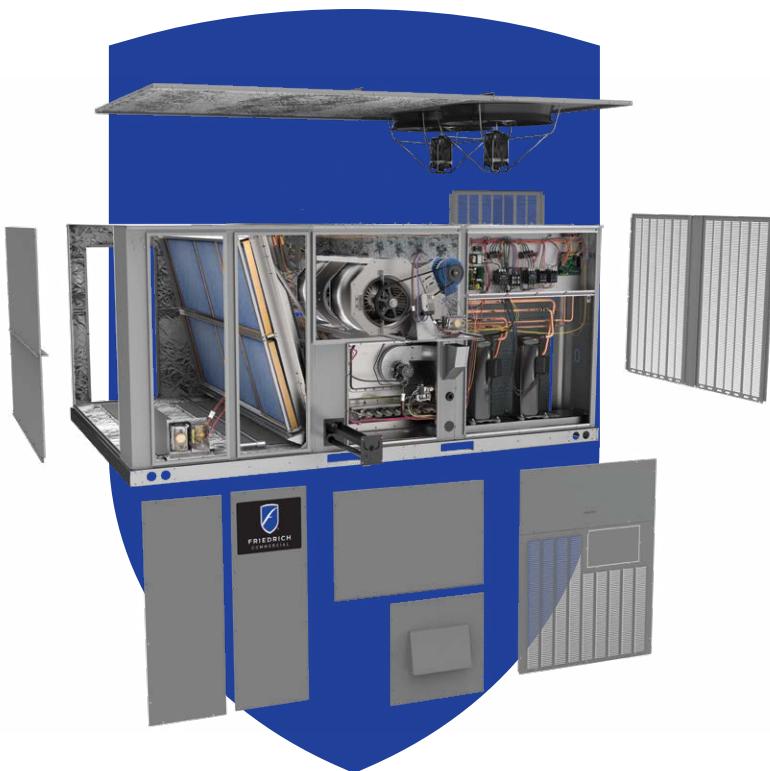
Renaissance™ | 3 to 25 Tons

Easier Installation and Replacement

Engineered to make replacement and retrofit jobs a breeze, Renaissance units feature industry-common footprints that eliminate the need for a curb adapter and thoughtfully placed wiring and piping connections to minimize costs for additional materials and labor.

Packaged Solutions for Every Need

Renaissance products offer up to 14.8 IEER / 11.2 EER in 6 to 25 ton capacities and up to 16.2 SEER2 / 12 EER2 in 3 to 5 ton capacities. Innovative features like our exclusive PlusOne® HumidiDry® and our patented VelociFin® heat exchanger enhance overall part-load performance.



Packaged Gas/Electric

LIMITED WARRANTY 1 year parts, 5 years compressor,
10 years standard heat exchanger, 20 years stainless steel heat exchanger

	3-5 TONS		6 TONS	7.5-12.5 TONS	15-25 TONS
Model Number	RGECYB	RGECYC	RGECYB	RGEDYB	RGEGB
Tier	F-Series™	F-Series Plus™	F-Series™	F-Series™	F-Series™
Efficiency Up To	13.4 SEER2 / 10.6 EER2	16.2 SEER2 / 12 EER2	14.6 IEER / 11.0 EER	14.6 IEER / 11.0 EER	14.0 IEER / 10.8 EER
Power Options	208-230V / 1Ø 208-230V / 3Ø 460V / 3Ø	208-230V / 1Ø 208-230V / 3Ø 460V / 3Ø	208-230V / 3Ø	208-230V / 3Ø	208-230V / 3Ø
Stages of Cooling / Heating	1 / 2	2 / 2	2 / 2	2 / 2	2 / 2
Standard Features					
External Gauge Ports	✓ Lockable	✓ Lockable	✓ Lockable	✓ Lockable	✓ Lockable
Field-convertible Airflow	✓	✓	✓	✓	✓
Coil Type	Full MicroChannel	Full MicroChannel	Full MicroChannel	Full MicroChannel	Full Interlaced MicroChannel
Motor Technology	ECM	ECM	ECM	VFD	VFD
PlusOne® VelociFin®	✓	✓	✓	-	✓
PlusOne SmartShield™	✓	✓	✓	✓	✓
PlusOne ServiceSmart	✓	✓	✓	✓	✓
PlusOne Diagnostics	✓	✓	✓	✓	✓
CoreCommand™					
Refrigerant Detection System	Built-in	Built-in	Built-in	Built-in	Built-in
Optional Features					
PlusOne ClearControl™	✓	✓	✓	✓	✓
PlusOne HumidiDry®	✓	✓	✓	✓	-

Exclusively Renaissance



Patented heat exchanger tubing that increases heat transfer through an innovative velocity concept, improving overall efficiency.



The industry's only 15-25 ton packaged unit to feature indoor and outdoor interlaced **MicroChannel coils**, maximizing reliability and decreasing the amount of required refrigerant by up to 60%.



HumidiDry® hot gas reheat improves occupant comfort, enhances performance and saves energy. Available on **most Renaissance models**, including single-phase power 3-5 ton models.



Contractors spend up to 100 minutes less time performing industry-standard service and preventive maintenance, adding up to substantial savings.¹



Rest assured with real-time system access, monitoring and flexible controls for easy communication via BACnet, LonWorks or Modbus. Enjoy the freedom to choose without compromising on functionality.

Packaged Air Conditioner

LIMITED WARRANTY 1 year parts and 5 years compressor

	3-5 TONS		6 TONS	7.5-12.5 TONS		15-25 TONS
Model Number	RACCYB	RACCYC	RACCYB	RACDYB	RACGYB	RACGYB
Tier	F-Series™	F-Series Plus™	F-Series™	F-Series™	F-Series™	F-Series™
Efficiency Up To	13.4 SEER2 / 10.6 EER2	16.2 SEER2 / 12 EER2	14.8 IEER / 11.2 EER	14.8 IEER / 11.2 EER	14.2 IEER / 11.0 EER	14.2 IEER / 11.0 EER
Power Options	208-230V / 1Ø 208-230V / 3Ø 460V / 3Ø	208-230V / 1Ø 208-230V / 3Ø 460V / 3Ø	208-230V / 3Ø 460V / 3Ø			
Stages of Cooling	1	2	2	2	2	2
Standard Features						
External Gauge Ports	✓ Lockable	✓ Lockable	✓ Lockable	✓ Lockable	✓ Lockable	✓ Easy Access
Field-convertible Airflow	✓	✓	✓	✓	✓	✓
Coil Type	Full MicroChannel	Full MicroChannel	MicroChannel ECM	MicroChannel ECM	MicroChannel VFD	Full Interlaced MicroChannel VFD
Motor Technology	ECM	ECM	ECM	VFD	VFD	VFD
PlusOne® SmartShield™	✓	✓	✓	✓	✓	✓
PlusOne ServiceSmart	✓	✓	✓	✓	✓	✓
PlusOne Diagnostics CoreCommand™	✓	✓	✓	✓	✓	✓
Refrigerant Detection System	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
Optional Features						
PlusOne ClearControl™	✓	✓	✓	✓	✓	✓
PlusOne HumidiDry®	✓	✓	✓	✓	✓	-

Packaged Heat Pump

LIMITED WARRANTY 1 year parts and 5 years compressor

	3-5 TONS		6 TONS	7.5-10 TONS	
Model Number	RHPCYB		RHPCYB	RHPDYB	
Tier	F-Series™		F-Series™	F-Series™	
Efficiency Up To	13.4 SEER2 / 10.6 EER2 / 6.7 HSPF2		14.1 IEER / 11.0 EER / 3.4 COP	14.1 IEER / 11.0 EER / 3.4 COP	
Power Options	208-230V / 1Ø 208-230V / 3Ø 460V / 3Ø		208-230V / 3Ø	208-230V / 3Ø 460V / 3Ø	
Stages of Cooling / Heating	1 / 1		2 / 2	2 / 2	
Standard Features					
External Gauge Ports	✓ Lockable		✓ Lockable	✓ Lockable	
Field-convertible Airflow	✓		✓	✓	
Coil Type	Full MicroChannel		Full MicroChannel	Full MicroChannel	
Motor Technology	ECM		ECM	VFD	
PlusOne® SmartShield™ Patent-pending Defrost System	✓		✓	✓	
PlusOne ServiceSmart	✓		✓	✓	
PlusOne Diagnostics CoreCommand™	✓		✓	✓	
Refrigerant Detection System	Built-in		Built-in	Built-in	
Optional Features					
PlusOne ClearControl™	✓		✓	✓	

Commercial Packaged Systems

Resolute™ | 15 to 30 Tons

Premium Features, Maximum Value

Designed with the future in mind, Resolute units include the right mix of premium options to enhance comfort, installability, serviceability and reliability. Advanced technologies like MicroChannel coils and Friedrich HumidiDry® deliver up to 14.2 IEER / 11.0 EER / 3.3 COP for powerful performance year-round, and thoughtful serviceability features like hinged access panels and factory-programmed VFDs make installation and service easier.

Advanced Zoning

Maximize comfort throughout your building with the zoning capabilities of Resolute. The 30-ton Resolute packaged unit comes standard with single-zone and multi-zone VAV to personalize comfort by zone and features five stages of cooling to maximize part-load efficiencies.



Industry's only
30-ton VAV
with convertible
airflow

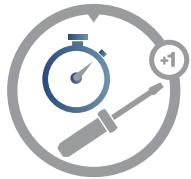
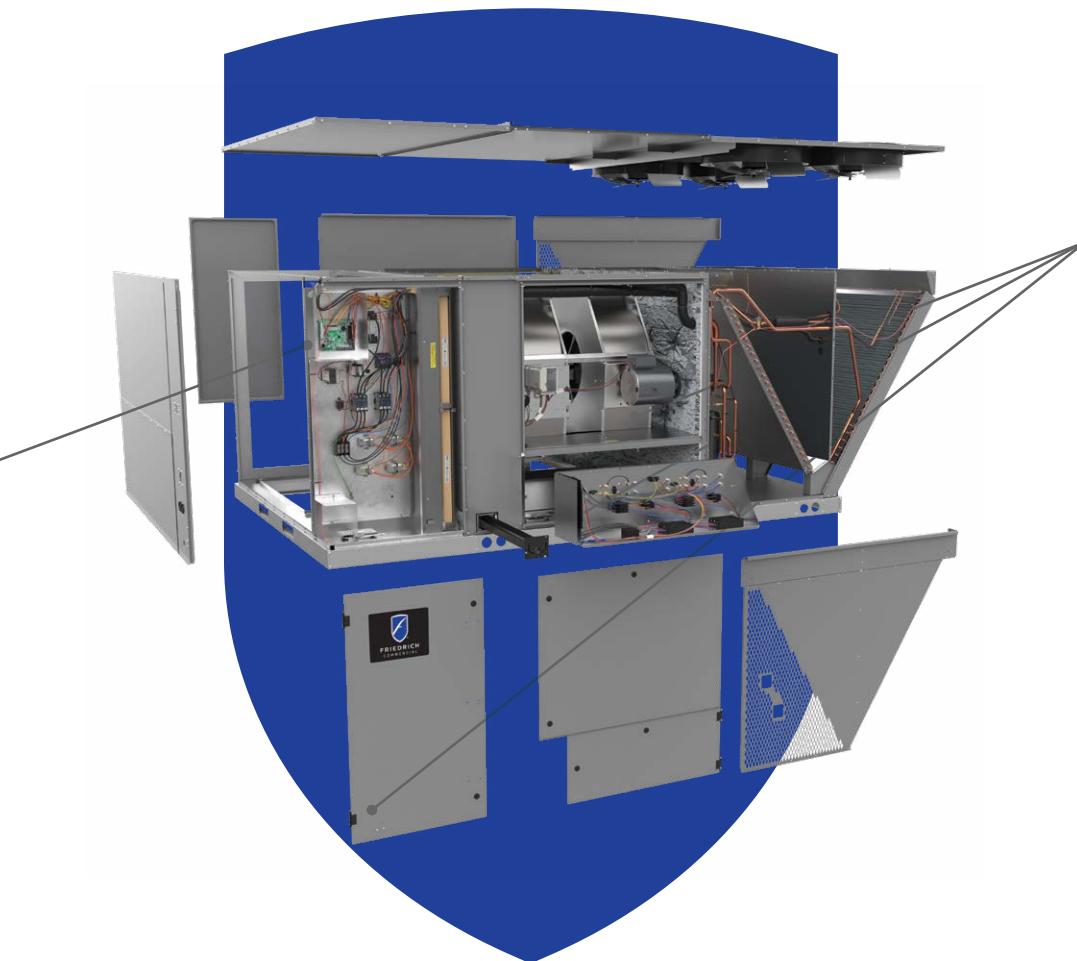
Resolute™
30-ton models
are the smallest and
lightest available in
the industry.



PlusOne®
ClearControl™

Rest assured with real-time system access, monitoring and flexible controls for easy communication via BACnet, LonWorks or Modbus. **Enjoy the freedom to choose without compromising on functionality.**

Model Number	Capacities	Efficiency Up To	Power Options	Stages of Cooling / Heating	Field-convertible Airflow (Downflow & Horizontal)	Coil Type
Packaged Heat Pump						
RPHHYB	15 & 20 Tons	13.5 IEER 10.6 EER 3.3 COP	208-230V / 3Ø 460V / 3Ø	2 / 2	✓	Fin and Tube
Packaged Air Conditioner						
RACHYB	15-25 Tons	14.2 IEER 11.0 EER	208-230V / 3Ø 460V / 3Ø	2 / -	✓	Fin and Tube Evaporator MicroChannel Condenser
RACHYB360	30 Tons	13.2 IEER 10.0 EER	208-230V / 3Ø 460V / 3Ø	5 / -	✓	Fin and Tube Evaporator MicroChannel Condenser
Packaged Gas/Electric						
RGEHYB	15-25 Tons	14.0 IEER 10.8 EER	208-230V / 3Ø 460V / 3Ø	2 / 2	✓	Fin and Tube Evaporator MicroChannel Condenser
RGEHYB360	30 Tons	13.0 IEER 9.8 EER	208-230V / 3Ø 460V / 3Ø	5 / 2	✓	Fin and Tube Evaporator MicroChannel Condenser



PlusOne® ServiceSmart

Thoughtfully designed **qwik-slide** assemblies and convenient hinged access panels mean **faster service and maintenance.**



PlusOne® HumidiDry®

HumidiDry® hot gas reheat improves occupant comfort, enhances performance and saves energy. **Available on most Resolute models.**

Motor Technology	Single Point Electrical Connections	Phase Protection Monitor	PlusOne® ServiceSmart	PlusOne ClearControl™	PlusOne HumidiDry®	Zoning	Refrigerant Detection System
LIMITED WARRANTY - 1 year parts and 5 years compressor							
VFD	✓	✓	Qwik-Slide Blower Assembly Qwik-Clean Drain Pan Hinged Panel Access	Optional	-	Staged Air Volume	Built-in
LIMITED WARRANTY - 1 year parts and 5 years compressor							
VFD	✓	✓	Qwik-Slide Blower Assembly Qwik-Clean Drain Pan Hinged Panels	Standard	Optional	Staged Air Volume	Built-in
VFD	✓	✓	Qwik-Slide Blower Assembly Qwik-Clean Drain Pan Hinged Panels	Standard	-	Single- and Multi-zone VAV	Built-in
LIMITED WARRANTY - 1 year parts, 5 years compressor, 10 years factory standard heat exchanger, 20 years stainless steel heat exchanger							
VFD	✓	✓	Qwik-Slide Blower Assembly Qwik-Clean Drain Pan Hinged Panels	Standard	Optional	Staged Air Volume	Built-in
VFD	✓	✓	Qwik-Slide Blower Assembly Qwik-Clean Drain Pan Hinged Panels	Standard	-	Single- and Multi-zone VAV	Built-in

Commercial Split Systems

Available in multiple sizes, making it easy to find the right-sized equipment for each job.

With split systems, the condensing unit is located outside, isolating the compressor and condenser fan noise and increasing acoustic comfort of the conditioned space. The exterior location also means that a dedicated equipment room isn't required, maximizing the building's usable square footage. Friedrich's commercial split systems are designed for reliable performance, with efficiencies up to 11.2 EER / 14.8 IEER / 3.4 COP.



Split Units

Unit Type	Unit Detail	capacity (tons)					
		6.5	7.5	10	12.5	15	20
Split Air Conditioner	Condensers ¹	● ●	● ●	● ●	● ●	● ●	● ●
	Air Handlers ²	● ●	● ●		● ●	● ●	● ●
Split Heat Pump	Outdoor Units ¹		● ●	● ●			
	Air Handlers ²	● ●		● ●			

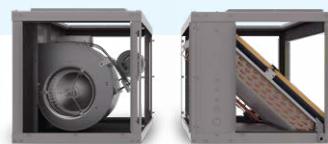
¹Limited Warranty for Commercial Products: 5 Years Compressor, 1 Year Limited Parts.

²Limited Warranty for Commercial Products: 1 Year Limited Parts.

Key

- 208-230V 3Ph
- 460V 3Ph

Patent-pending, industry-leading separable design for easier installability



Friedrich Split System Features by Model



Split AC Condensers: 6.5 to 20 tons
Split AC Air Handlers: 7.5 to 20 tons



Split Heat Pumps: 7.5 & 10 tons
Split Heat Pump Air Handlers: 7.5 & 10 tons

RACY*

- Standard crankcase heaters
- Stamped louvered panels provide all-around coil protection
- Scroll compressor
- Reduced footprint with single fan for 6.5- to 10-ton models
- The smallest and lightest 10-ton air conditioner in the industry

RHCYA

- Low-profile cabinet allows for horizontal installation in most standard drop-ceiling applications with a rigorously tested exterior cabinet; Horizontal or vertical installation possible
- VFD provides two-stage airflow for improved part-load efficiency
- MERV 13 and MERV 8 filters available as an accessory
- For use with matching size RACY air conditioners

RPCY

- Demand defrost control
- Standard crankcase heater
- Scroll compressor

RHCYP

- Low-profile cabinet allows for horizontal installation in most standard drop-ceiling applications with a rigorously tested exterior cabinet; Horizontal or vertical installation possible
- VFD provides two-stage airflow for improved part-load efficiency
- MERV 13 and MERV 8 filters available as an accessory
- For use with matching size RPCY heat pumps

Light Commercial / Residential Systems

Featuring a range of efficiencies and industry-leading innovations.

The Friedrich light commercial and residential portfolio is robust, offering both split and packaged heating & cooling systems as well as ductless heat pumps. All product lines offer a range of capacities and features, making it easy to select a system that fits the application and budget.

Packaged Systems

Unit Type	Unit Detail	capacity (tons)					
		2	2.5	3	3.5	4	5
Gas / Electric	Standard	● ●	● ●	● ● ●	● ●	● ● ●	● ● ●
	Low NOx	● ●	● ●	● ● ●	● ●	● ● ●	● ● ●
	Ultra Low NOx	●	● ●	● ● ●	● ●	● ● ●	● ● ●
Air Conditioner	Field Convertible	● ●	● ●	● ● ●	● ●	● ● ●	● ● ●
	Dedicated Horizontal	●	● ●	● ●	● ●	● ●	● ●
Heat Pump	Field Convertible	● ●	● ●	● ● ●	● ●	● ● ●	● ● ●
	Dedicated Horizontal	●	● ●	● ●	● ●	● ●	● ●
Dual Fuel	Field Convertible	● ●		● ●		● ●	● ●



Key

- 208-230V 1Ph
- 208-230V 3Ph
- 460V 3Ph

Three-phase options available in most capacities

Split Systems

Unit Type	Unit Detail	capacity (tons)						
		1.5	2	2.5	3	3.5	4	5
Split Air Conditioner	Condensers	●	●	●	● ● ●	● ● ●	● ● ●	● ● ●
	Air Handlers		● ●		● ● ●		● ● ●	● ● ●
Split Heat Pump	Outdoor Units	●	●	●	● ● ●	● ● ●	● ● ●	● ● ●
	Air Handlers		● ●		● ● ●		● ● ●	● ● ●



Key

- 115V
- 208-230V 1Ph
- 208-230V 3Ph
- 460V 3Ph

Universal Heat Pumps

Unit Type	Unit Detail	capacity (tons)				
		1.5	2	3	4	5
Breeze Premier	Outdoor Units	● ▲	● ▲	● ▲	● ▲	
Breeze Premier	Air Handlers (4-position)	● ▲	● ▲	● ▲	● ▲	
Breeze Select	Outdoor Units		● ▲	● ▲	● ▲	● ▲
Breeze Select	Air Handlers (4-position)		● ▲	● ▲	● ▲	● ▲



Key

- 208-230V 1Ph
- ▲ Low ambient Cooling from 5-125°F; Heating from -13-75°F
- ▲ Low ambient Cooling from 5-115°F; Heating from -4-75°F

Ductless Heat Pump Systems

Indoor Unit Styles	single-zone					multi-zone				
	Capacity (kBtu/h)					Capacity (kBtu/h)				
						Indoor		Outdoor		
Wall Mounted	9	12	18	24	36	7	9	12	18	24
Ceiling Cassette	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲
Concealed Ducted	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲
Air Handlers (4-position)								● ▲	● ▲	● ▲



Key

- 115V
- 208-230V 1Ph
- ▲ Extreme Temperature Operation: Heating down to -22°F in Single-zone, and -13°F in Multi-zone; Cooling down to 5°F
- ▲ Low Ambient Heating down to -5°F; Cooling down to 5°F

Standard Limited Warranty for Ductless Heat Pump Systems:

10 Years Compressor, 7 Years Parts.

Limited Warranty with Registration: 10 Years Compressor, 10 Years Parts.

NOTE: Combinations SHOULD NOT exceed the maximum allowable total indoor unit connected capacity.

Hospitality & Specialty

Offering a full range of capacities, sizes and installation options for maximum flexibility and safety.

Friedrich's line of hospitality- and specialty-focused air conditioners and heat pumps are designed for everything from individual offices to multi-room properties to even the most challenging hazardous environments. All products were built to highlight the features that matter most in those applications: easy installation, control, durability, energy management, noise reduction, safety and superior air distribution.

PTAC/PTHP (PACKAGED TERMINAL AIR CONDITIONERS AND HEAT PUMPS)

Efficiency, comfort and FreshAire® Indoor Air Quality (IAQ) options are abundant in our award-winning three-tier line of packaged terminal air conditioners.



FreshAire®

One of the first inverter PTACs on the market, featuring a variable speed inverter compressor and integrated make-up air system.

- Available in 9-12k Btu/h rated capacities with cooling / heating range of 5-15k Btu/h
- Heat pump operation
- Up to 12.0 EER and 3.65 COP

ZoneAire® Premier

Incredibly efficient and quiet, this PTAC includes durable construction and sound reduction technology.

- Available in 7-15k Btu/h capacities
- Electric heat and heat pump styles
- Up to 13.3 EER and 3.6 COP

ZoneAire® Select

Using durable materials and the highest quality components, this PTAC offers exceptional value and outstanding performance.

- Available in 7-15k Btu/h capacities
- Electric heat and heat pump styles
- Up to 12.0 EER and 3.5 COP

VERT-I-PAK®

Ducted and closet mounted, Vert-I-Pak eliminates the need for multiple through-the-wall units.

- Available in 9-24k Btu/h capacities
- Hospitality & Specialty
- Heat pump operation down to 10°F with standard base pan heater
- Up to 12.3 SEER2 / 10.6 EER2 / 6.7 HSPF2



VRP®

VRF performance and single package simplicity all come together in the award-winning Friedrich VRP.

- Available in 7-36k Btu/h capacities
- Heat pump operation down to 0°F
- Precision Inverter® compressor operates down to 40% of rated capacity, or up to 120%



HAZARDGARD®

For more than 30 years, multiple industries have relied on Hazardgard to deliver safe and reliable cooling in the most extreme conditions. Hazardgard is specifically designed to cool oil drilling sites, laboratories, control rooms, living quarters, storage areas and other enclosures situated in hazardous locations—such as where specific volatile flammable liquids or gases are handled or used within enclosed containers or systems.



Hazardgard models are available with these certifications:

15-24k Btu/h Capacities | UL Domestic 3 Models 60Hz, 1 Model 50 Hz

20k Btu/h Capacity | UL/SASO Gulf States 60Hz

20-24k Btu/h Capacities | ATEX/IECEx/UKCE Europe

Able to operate in surface temperatures up to 135°F

Cooling-only operation

Certified for application into Class 1 Division 2, Groups A, B, C and D



Engineered to be Reliable

Friedrich commercial delivers a wide range of heating & cooling solutions across applications—K-12 schools, offices, retail, restaurants, hospitality, religious buildings, warehouses and more—so you can feel confident that you're providing the best equipment for every job.



Broad Product Lineup

Offering Packaged Air Conditioners, Gas/Electric, Heat Pumps and Dual Fuel systems in capacities ranging from 2 to 30 tons, we're a dependable choice for a variety of commercial, industrial, and institutional buildings.



Application Flexibility

Designed by our engineers to maximize installability, serviceability and ease of use, our products are the right choice for a wide range of commercial applications.



Innovative Technology

Packed with exclusive technologies like our patented VelociFin® gas heat exchanger and Friedrich PlusOne® HumidiDry®, our products meet the needs of even the most discerning customers.



Local Support

We have research, design, manufacturing and Innovation Learning Centers throughout North America and products available from a local distributor near you.



Dedicated Outdoor Air Systems (DOAS)

Rapid lead times and retrofit-ready curb adapters make installation easier for a variety of applications.

Friedrich® DOAS units offer exceptional energy savings—up to 21.3 IEER—and unprecedented comfort and precise humidity control. Modulating technologies deliver the highest efficiencies at part-load conditions, which account for the majority of the year. Add up to 100% outdoor air to your building while also enjoying industry-leading lead times, enhanced serviceability and ultimate reliability with complimentary monitoring via CASLink with engineering support.



System Sizing & Specifications | 3 to 60 Tons | 500 to 15,000 CFM

Enclosure Size	1					2					3					4				
Unit Size (Nominal Tonnage)	3.0	4.0	5.0	6.0	7.5	8.0	10.0	12.5	15.0	17.5	20.0	25.0	30.0	22.5	25.0	30.0	40.0	50.0	60.0	
Min. Airflow (CFM)	500	500	500	600	750	800	1,000	1,250	1,500	1,750	2,000	2,500	3,000	2,200	2,500	3,000	4,000	5,000	6,000	
Max. Airflow (CFM)	1,200	1,600	2,000	2,400	3,000	3,200	4,000	5,000	6,000	7,000	8,000	8,000	8,000	8,800	10,000	12,000	15,000	15,000	15,000	
Indoor Coil Rows	4	4	4	4	5	5	5	6	6	7	7	7	7	5	5	6	6	8	8	
Cooling Turndown Ratio	5:1	6:1	7:1	7:1	7:1	7:1	7:1	7:1	7:1	6:1	7:1	6:1	7:1	7:1	7:1	7:1	14:1	17.5:1	14:1	
IEER	17.9	17.9	17.9	19.5	18.6	20.2	18.6	21.3	18.8	18.2	18.2	14.9	14.9	18.1	17.9	17.8	16.6	17.1	17.0	
Max. Heating Turndown Ratio*	20:1	20:1	20:1	17:1	14:1	21:1	16:1	25:1	16:1	16:1	16:1	16:1	16:1	18:1	18:1	18:1	18:1	18:1	18:1	
Furnace Input Capacity (MBH)	50–260					50–440					150–685					200–800				
Electric Coil Capacity (kW)	10–60					15–60					15–100					30–240				
Curb Size (L x W)	71" x 41"					75" x 49.5"					91" x 59.5"					111" x 80"				
Unit Dimensions (L x W x H)	77.25" x 62" x 47.5"					81.75" x 80.75" x 60.75"					99" x 89.75" x 69"					174" x 89.75" x 94"				
Approximate Weight (lbs.)	1,000–1,250					1,650–1,800					2,400–3,600					4,250–7,500				

*Contingent upon heat source

NOTE: DOAS units have been tested in accordance to the following standards: ANSI/AHRI Standard 340/360 – 2007 and ANSI/ASHRAE Standard 37 – 2009.



User-friendly with complete control.

Sensors throughout continually monitor a wide variety of data points—accessible through the user control panel and remotely configurable via an optional BACnet® or LonWorks® card.



Durable top-quality components.

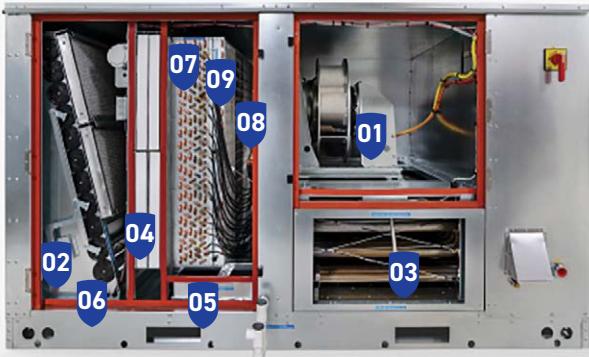
All fans are 100% direct drive for high efficiency and maintenance-free operation. A variable speed inverter duty compressor is standard, and aerodynamic bionic fan blades reduce noise emissions.



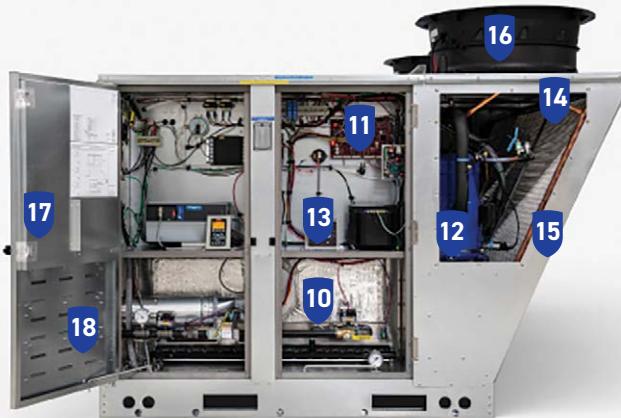
Engineered to last.

Removable hinged access doors and an insulated drain pan allow for easy maintenance and service. And double wall, insulated galvanized steel construction provides excellent durability.

Back of Unit



Side of Unit



01 Variable speed direct drive supply fan

High efficiency variable frequency drive (VFD) or electronically commutated motor (ECM) control options available.

02 Low-leakage outdoor air damper / intake louver

Modulates to accurately meet variable outdoor air requirements.

03 Averaging temperature sensor / humidity sensor

Outdoor air, mixed air and discharge air temperature and humidity sensors standard. Multiple temperature control options available.

04 Up to three layers of outdoor air filtration

Standard 2" metal mesh outdoor air filters with optional MERV 8, 13, 15 and HEPA filters, and clogged filter monitoring.

05 Stainless steel sloped condensate drain pan

Insulated drain pan for easy maintenance and serviceability with integrated float switch.

06 Smoke detector (optional)

Monitors "fire activity" in the return airstream.

07 Wide indoor coil design

Up to 7-row staggered coil allows for full conditioning of outdoor air and moisture control.

08 Electronic expansion valve

Provides automated superheat control and monitoring (0–100%), preventing liquid migration during off-duty cycles.

09 Fully modulating Hot Gas Reheat coil (optional)

Provides highly accurate humidity / temperature control. The electronic reheat valve allows for precise capacity control.

10 Modular / split manifold heating (optional)

Multi-efficiency natural gas, propane, heat pump and modulating SCR electric heat options available with enhanced turndown (18:1).

11 Integrated controls

In-house developed controls using multiple PID loops with optional integration to BAS/DDC. Low ambient DX cooling down to -25°F available.

12 Danfoss variable speed inverter scroll compressor

Variable Frequency Drive compressors provide precise load matching, reducing energy consumption and maximizing equipment life.

13 Human machine interface (HMI)

Total control of the unit through HMI with access to temperature, humidity, refrigerant and pressure data for space monitoring.

14 Heavy duty piping & supports

Hanging supports and vibration isolators prevent refrigeration piping from moving during transport and operation.

15 Condensing coil hail guard (optional)

Protects outdoor coil from damage.

16 Variable speed outdoor fans with EC motors

10:1 turndown maintains peak efficiency for all outdoor air conditions.

17 Double wall corrosion-resistant, G-90 galvanized steel

Insulated with 2" thick, R13 closed cell foam or 1" thick, R4.3 fiberglass board.

18 Removable hinged access doors

Easier maintenance and serviceability.

Accessories & Options

Designed for Renaissance™ and Resolute™ packaged products.

From their inception, Friedrich® commercial air units were designed to be easy. Developed with direct feedback from industry professionals, the lineup includes contractor-friendly features like panel prop-rods, easy-clean drain pans, access to panels with minimal screws or no tools and external gauge ports. Once inside the unit, contractors will find slide-out assemblies, single-side service access and quick-connect abilities through single point wiring kits. Customers can also choose from a list of field-installed and factory-installed accessories to enhance the ownership, service and maintenance experience.

Accessories & Options

	Renaissance™ 3-6 Ton Models		Renaissance™ 7.5-12.5 Ton Models		Renaissance™ 15-25 Ton Models		Resolute™ Models	
	Factory Installed	Field Installed	Factory Installed	Field Installed	Factory Installed	Field Installed	Factory Installed	Field Installed
Mechanical	Concentric Adapter		●		●			●
	Concentric Diffuser		●		●			●
	Convenience Outlet	●	●	●	●	●	●	●
	Dual Enthalpy Kit		●		●			●
	Economizer	●	●	●	●	●	●	●
	Electric Heater Kit	●		●		●		●
	ElectroFin® E-Coat for MicroChannel Condenser Coil Coating	●		●		●		●
	Flue Diverter Kit		●		●		●	
	Fresh Air Damper - Manual and Motorized		●		●			●
	Hail Guard Louvers	●	●	●	●	●	●	●
	Hinged Access	●		●		●		●
	LP Kit		●		●		●	
	MERV 8 Filter		●		●		●	●
	MERV 13 Filter		●		●		●	●
	Power Exhaust		●		●		●	
	Roofcurb		●		●		●	
	Roofcurb Adapter Z Bracket					●		
	Roofcurb Restraint Clips				●			
	Single Point Wiring Kit		●		●			●
	Smoke Detector	●	●	●	●	●	●	●
	Unfused Service Disconnect	●	●	●	●	●	●	●
Controls	ClearControl™ Direct Digital Control (DDC)	●		●		●		●
	Comfort Alert® Diagnostics and Phase Monitor Protection	●	●	●	●	●	●	●
	Communication Card, BACnet / LonWorks		●		●		●	
	Freeze Stat Kit	●	●	●	●	●	●	●
	Low-ambient Control Kit	●	●	●	●	●	●	●
	Sensor, Carbon Dioxide		●		●		●	
	Sensor, Room Temperature and Relative Humidity		●		●		●	

NOTE: Accessory and option availability vary by model and product. Be sure to check the product specification sheet for full details.

Commercial Tools



RapidSpec™ is a web-based specification and selection software tool. It was designed to quickly aid HVAC professionals in properly selecting Friedrich® equipment for any commercial project. With just a few clicks, generate a full and customized submittal package for your next job at RapidSpec.com.

Key benefits:

- Simple and easy to configure models and select products
- Generate performance data for custom conditions
- Offers model and accessory drawings
- Quickly specify commercial jobs by creating full submittal packages



9001:2015

International Standards Organization (ISO) certification means that we have passed a series of independent audits proving it maintains a modern quality control system to consistently provide quality products. These audits assess all of a company's systems that affect quality. As a proud member of the Rheem® Family of Brands, all Friedrich manufacturing facilities have achieved the prestigious ISO 9001:2015 Certification. Rheem was the first HVAC manufacturer in North America to earn this distinction in all of its manufacturing facilities.



A full selection of commercial product BIM files are available at Bim.Friedrich.com.

SpecLink

Find Friedrich 3-part specifications on our website and on SpecLink.

TRUE LINE™
HVACR & WATER HEATER PARTS AND ACCESSORIES

TrueLine is the trusted leader among aftermarket parts for heating & cooling and water heating equipment, providing the best mix of economy and quality.

PROTECH®
OEM AIR & WATER PARTS

The ProTech Master Catalog offers a complete reference for authorized replacement parts to Rheem, Ruud and Friedrich heating & cooling equipment.



KwikComfort® Commercial Financing makes it easy to grow your business, offering:

- **No rising rates** – Finance payments are fixed for the term of the financing
- **100% financing** – Get more flexibility with no down payment, and finance your complete solution, including warranties, tax, freight and installation
- **Save your bank credit** – Financing preserves your bank credit lines
- **Flexible payment plans** – Longer and more flexible terms than other financing—12–72 months are available on equipment
- **Stay competitive, avoid obsolescence** – Options include purchases, upgrades or trade-ins, so you never have to be stuck with inefficient equipment

PROTECTION PLUS®
EXTENDED SERVICE PLAN

With our Protection Plus® extended service agreement program, protect your investment from unexpected, unbudgeted repairs after the limited warranty expires. Protection Plus limited warranty can also be extended.

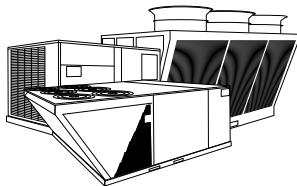
ESSENTIAL SOLUTIONS

We're in the business of delivering precise, efficient and reliable comfort. Our broad commercial portfolio is packed with innovations flexible enough to meet a variety of applications and supported by local experts who can help make your commercial project a success—from spec to install and beyond. Feel confident with Friedrich.

As part of the Rheem® Family of Brands, sustainability isn't just a feature we add to our products—it's a foundation of who we are as a company. As an industry leader, we continue to innovate and reimagine air and water solutions that drive our customers' success and protect the environment we all share. Because doing good isn't enough—we're committed to **A Greater Degree of Good®**.

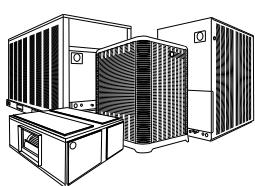


Friedrich Air Portfolio



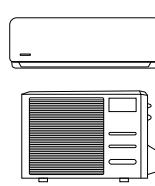
Packaged Units

- Gas Electric, A/C & Heat Pumps (2 to 30 Tons)
- DOAS (3 to 60 Tons | 500 to 15,000 CFM)



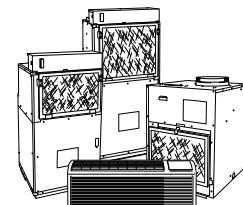
Split Systems

- 1.5 to 20 Tons
- Air Conditioners
- Heat Pumps



Ductless Split Systems

- Single-zone (9k to 36k Btu/h)
- Multi-zone (18k to 42k Btu/h)
- Low Ambient Heating
- Universal Heat Pump (24k to 60k Btu/h)



Hospitality and Industrial Systems

- FreshAire® Inverter PTACs (9k to 12k Btu/h)
- ZoneAire® PTACs (7k to 15k Btu/h)
- Hazardgard® Room Air Conditioners (15k to 24k Btu/h)
- Vert-I-Pak® (9k to 24k Btu/h)
- Cooling and Heat Pumps

Delivering Boldly Crafted Comfort

Founded in 1883, Friedrich Air Conditioning Co. is an expert in providing residential and commercial comfort solutions—from premium room air conditioners to whole-home / whole-building equipment and more.

Designed to be among the most advanced and quietest available, all Friedrich products are engineered to deliver precise temperature control to make spaces comfortable—quickly and efficiently.

¹Per a MIAT Commercial HVAC Competitive Time Study, conducted June 4-6, 2019.

Friedrich is a part of the Rheem® family of brands. In keeping with its policy of continuous progress & program improvement, we reserve the right to make changes without notice.

The AHRI Certified® mark indicates our participation in the AHRI Certification program. For verification of individual certified products, go to www.ahridirectory.org.

DOAS units have been tested in accordance to the following standards: ANSI/AHRI Standard 340/360 – 2007 and ANSI/ASHRAE Standard 37 – 2009.

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Printed in the USA · 02/26 · QG · Form No. MFR-1183 Rev. 1

Friedrich.com/Commercial

For additional information, contact your local Friedrich sales representative.



FRIEDRICH
Commercial Air