

Friedrich Breeze™ Series  
**Ducted Mini Split Heat Pump**

*The Easiest Way to Upgrade to an Inverter-Driven Heat Pump*



**PRECISION  
INVERTER®**

 **FRIEDRICH**

DELIVERING BOLDLY CRAFTED COMFORT



**BREEZE™ IS THE EASIEST WAY TO UPGRADE FROM TRADITIONAL HVAC EQUIPMENT TO AN EFFICIENT, SIDE DISCHARGE INVERTER HEAT PUMP SYSTEM.**

**UNIVERSAL COMPATIBILITY**

Friedrich Breeze™ Ducted Mini Split Heat Pump can be paired with virtually all existing HVAC systems, regardless of brand for retrofit applications. Or, install it with a matching Friedrich air handler for a complete package. Breeze is also compatible with most 24V thermostats or BMS.

**ACCOMMODATES LONG LINESET RUNS**

For even more installation flexibility, Breeze's high-performance compressor accommodates long lineset runs, and can be installed with linesets of up to 246 ft. and height differentials of up to 98 ft.

**SPACE-SAVING SLIM DESIGN**

Its ultra-compact design features a smaller footprint that requires less outdoor space, with 36% reduction in volume and 40% reduction in footprint compared to top discharge outdoor units.

**ENERGY SAVINGS**

Precision Inverter® delivers efficiencies of up to 18.0 SEER2 and 9.5 HSPF2, all with cold climate operation. ENERGY STAR® Certified for Cold Climate models available. Eligible for many federal & local tax credit & rebate incentives.



**PRECISE TEMPERATURE CONTROL, BETTER COMFORT**

The Precision Inverter® compressor ramps up quickly with Soft-Start™ technology to reach the indoor set temperature, then maintains precise temperature control for perfect comfort.

**LOW SOUND LEVELS INDOORS AND OUT**

Superior sound insulation and precise engineering provide the ultra-quiet air movement that are a Friedrich signature feature. Outdoors, the inverter-driven side discharge unit provides a quieter, more enjoyable outdoor space.



**OPERATES IN LOW TEMPERATURES**

Operates in temperatures down to -13° F in heat pump mode, and will provide cooling in temperatures as low as 5° F.

Most Exsiting  
24V  
Thermostat

# FLEXIBLE SYSTEM DESIGN



Friedrich Breeze™ Ducted Mini Split Heat Pumps

Friedrich Breeze™ Air Handlers



Compatible with many Non-Friedrich Air Handlers¹



**Optional Electric Heaters**  
5kW-20kW auxillary heat options

**ECM Motor**  
Variable speed ECM motors

**100% Copper Tubing**  
Superior heat exchange

**Advanced Fin Design**  
Provides improved heat exchange  
Coated for corrosion resistance

### Leak Detection

All Friedrich Breeze air handlers have a nitrogen charge and factory installed leakage indicators to warn against leaks caused prior to installation.



### Multi-position Air Handler

Can be installed vertically or horizontally to accommodate specific space requirements, whether you're installing in an attic or closeted space.

# BREEZE™ | 2-TON SIDE DISCHARGE HEAT PUMP SYSTEM

**AIR HANDLER/INDOOR: WFH24Z193C**

**INVERTER HEAT PUMP CONDENSER/OUTDOOR: WFPU17Z243C**

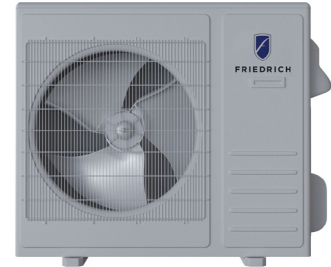


## FEATURES

- Universal compatibility to existing air handler or gas furnace
- Maximum line length of 164 ft.
- Heating down to -13°F (-25°C)
- Built-in base pan heater
- Optional auxiliary heater kit
- Multi-position Air Handler



*These products meet a stringent set of our company's internally defined sustainability standards*



SYSTEM COMPONENTS	
Air Handler/Indoor Model Number	WFH24Z193C
Inverter Heat Pump Condenser/Outdoor Model Number	WFPU17Z243C
ELECTRICAL - Outdoor Unit	
Voltage/Phase/Frequency	208 / 230V, 1-Phase, 60Hz
Voltage Range - V	198 - 253
MCA - Outdoor Unit - A	15
Max Circuit Breaker - Outdoor Unit - A	25
MCA - Indoor Unit - A	3.3
Max Circuit Breaker - Indoor Unit - A	10
Rated Load Amperage (RLA) - A	11.2

CAPACITIES	
Cooling Capacity - Btu-h	22000
Cooling Capacity Range - Btu-h	6700 - 26000
Heating Capacity - Btu-h	23000
Heating Capacity Range - Btu-h	6700-26000

FAN SPEEDS	
Indoor Airflow Rate - CFM rated	800
Outdoor Airflow Rate (H) - CFM	1825

SOUND PRESSURE	
Indoor (H) - dB(A)	55
Sound Pressure Level Outdoor (H) - dB(A)	54

LINESET REQUIREMENTS	
Connection Pipe Diameter - Liquid - in (mm)	3/8 (9.52)
Connection Pipe Diameter - Gas - in (mm)	5/8 (15.88)
Minimum Lineset Length - ft (m)	10(3.04)
Maximum Lineset Length (Total) - ft (m)	164 (50)
Max Height Difference - ft (m)	98 (30)
Pre-charged Lineset Length -ft (m)	24.6 (7.5)

STATIC PRESSURE	
Static Pressure Range - inWG (Pa)	0 to 0.8 (0 to 200)

OUTDOOR TEMPERATURE OPERATING RANGE	
Cooling - °F (°C)	5 to 122 (-15 to 50)
Heating - °F (°C)	-13 to 75 (-25 to 24)

Voltage/Phase/Frequency	
Cooling - °F (°C)	61°F to 86°F (16°C to 30°C)
Heating - °F (°C)	61°F to 86°F (16°C to 30°C)
Moisture Removal pints/h (L/h)	4.6 (2.2)

EFFICIENCIES	
SEER2	16.5
EER2	10.10
HSPF2	9.00
COP2 @ 5 °F	2.05
ENERGY STAR®	Yes

NET DIMENSIONS & WEIGHTS	
Indoor Unit Net Dimensions (H x W x D) - in	46-1/8 x 19-5/8 x 21-5/8
Indoor Unit Net Dimensions (H x W x D) - mm	1,170 x 500 x 550
Indoor Unit Gross Dimensions (H x W x D) - in	49-5/8 x 22-1/2 x 25-3/8
Indoor Unit Gross Dimensions (H x W x D) - mm	1,260 x 570 x 645
Outdoor Unit Net Dimensions (H x W x D) - in	26-3/8 x 33-7/8 x 12-1/4
Outdoor Unit Net Dimensions (H x W x D) - mm	670 x 860 x 310
Outdoor Unit Gross Dimensions (H x W x D) - in	28-3/4 x 39 x 17-3/4
Outdoor Unit Gross Dimensions (H x W x D) - mm	730 x 990 x 450
Indoor Unit - Net Weight - lbs (kg)	135.5 (61.5)
Indoor Unit - Shipping Weight - lbs (kg)	158.6 (72)
Outdoor Unit - Net Weight - lbs (kg)	112.4 (51)
Outdoor Unit - Shipping - lbs (kg)	121.3 (55)

REFRIGERANT	
Refrigerant Type	410A
Refrigerant Weight - lb oz	4 lb 7 oz
Oil type	VG74

COMPRESSOR	
Compressor Type	Rotary Inverter

WARRANTY	
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### Standard Warranty

10 Year Compressor, 7 Year Parts

### Warranty with Registration

10 Year Compressor, 10 Year Parts

Note: Specifications are based on the following conditions:

Cooling: Indoor temperature of 80°F (26.7°C) DB/67°F (19.4°C) WB, and outdoor temperature of 95°F (35°C)DB/75°F (23.9°C) WB, Heating: Indoor temperature of 70°F (21.1°C) DB/60°F (15.6°C) WB, and outdoor temperature of 47°F (8.3°C) DB/43°F (6.1°C) WB. Pipe length: 25ft. (7.5m), Height difference: 0ft. (0m) (Outdoor unit - indoor unit).

Due to continuing research in new energy-saving technology, specifications are subject to change without notice.



# BREEZE™ | 3-TON SIDE DISCHARGE HEAT PUMP SYSTEM

**AIR HANDLER/INDOOR: WFH36Z193C**

**INVERTER HEAT PUMP CONDENSER/OUTDOOR: WFPU18Z363C**

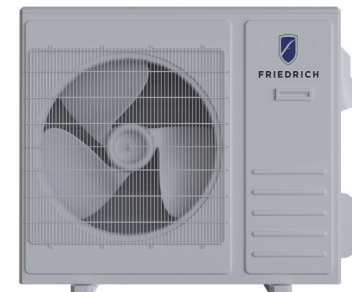


## FEATURES

- Universal compatibility to existing air handler or gas furnace
- Maximum line length of 246 ft.
- Heating down to -13°F (-25°C)
- Built-in base pan heater
- Optional auxiliary heater kit
- Multi-position Air Handler



These products meet a stringent set of our company's internally defined sustainability standards



SYSTEM COMPONENTS	
Air Handler/Indoor Model Number	<b>WFH36Z193C</b>
Inverter Heat Pump Condenser/Outdoor Model Number	<b>WFPU18Z363C</b>
ELECTRICAL - Outdoor Unit	
Voltage/Phase/Frequency	208 / 230V, 1-Phase, 60Hz
Voltage Range - V	198 - 253
MCA - Outdoor Unit - A	23
Max Circuit Breaker - Outdoor Unit - A	35
MCA - Indoor Unit - A	4.8
Max Circuit Breaker - Indoor Unit - A	10
Rated Load Amperage (RLA) - A	17.6

CAPACITIES	
Cooling Capacity - Btu-h	36000
Cooling Capacity Range - BTUh	11800 - 36800
Heating Capacity - Btu-h	35000
Heating Capacity Range - BTUh	8900 - 38200

FAN SPEEDS	
Indoor Airflow Rate (H/M/L) - CFM rated	1120
Outdoor Airflow Rate (H) - CFM	2350

SOUND PRESSURE	
Indoor (H) - dB(A)	57
Sound Pressure Level Outdoor (H) - dB(A)	57

LINESET REQUIREMENTS	
Connection Pipe Diameter - Liquid - in (mm)	3/8 (9.52)
Connection Pipe Diameter - Gas - in (mm)	3/4 (19.05)
Minimum Lineset Length - ft (m)	10(3.04)
Maximum Lineset Length (Total) - ft (m)	246 (75)
Max Height Difference - ft (m)	98 (30)
Pre-charged Lineset Length -ft (m)	24.6 (7.5)

STATIC PRESSURE	
Static Pressure Range - inWG (Pa)	0 to 0.8 (0 to 200)

OUTDOOR TEMPERATURE OPERATING RANGE	
Cooling - °F (°C)	5 to 122 (-15 to 50)
Heating - °F (°C)	-13 to 75 (-25 to 24)

Voltage/Phase/Frequency	
Cooling - °F (°C)	61°F to 86°F (16°C to 30°C)
Heating - °F (°C)	61°F to 86°F (16°C to 30°C)
Moisture Removal pints/h (L/h)	4.6 (2.2)

EFFICIENCIES	
SEER2	18.00
EER2	10.10
HSPF2	9.50
COP2 @ 5 °F	2.05
ENERGY STAR®	Yes

NET DIMENSIONS & WEIGHTS	
Indoor Unit Net Dimensions (H x W x D) - in	46-1/8 x 19-5/8 x 21-5/8
Indoor Unit Net Dimensions (H x W x D) - mm	1,170 x 500 x 550
Indoor Unit Gross Dimensions (H x W x D) - in	49-5/8 x 22-1/2 x 25-3/8
Indoor Unit Gross Dimensions (H x W x D) - mm	1,260 x 570 x 645
Outdoor Unit Net Dimensions (H x W x D) - in	33 x 37-3/8 x 13-3/8
Outdoor Unit Net Dimensions (H x W x D) - mm	840 x 950 x 340
Outdoor Unit Gross Dimensions (H x W x D) - in	36-1/4 x 43-3/4 x 18 1/8
Outdoor Unit Gross Dimensions (H x W x D) - mm	920 x 1,110 x 460
Indoor Unit - Net Weight - lbs (kg)	140.0 (63.5)
Indoor Unit - Shipping Weight - lbs (kg)	163.1 (74)
Outdoor Unit - Net Weight - lbs (kg)	147.7 (67)
Outdoor Unit - Shipping - lbs (kg)	158.7 (72)

REFRIGERANT	
Refrigerant Type	410A
Refrigerant Weight - lb oz	6 lb 3 oz
Oil type	VG74

COMPRESSOR	
Compressor Type	Rotary Inverter

WARRANTY	
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### Standard Warranty

10 Year Compressor, 7 Year Parts

### Warranty with Registration

10 Year Compressor, 10 Year Parts



Note: Specifications are based on the following conditions:

Cooling: Indoor temperature of 80°F (26.7°C) DB/67°F (19.4°C) WB, and outdoor temperature of 95°F (35°C)DB/75°F (23.9°C) WB, Heating: Indoor temperature of 70°F (21.1°C) DB/60°F (15.6°C) WB, and outdoor temperature of 47°F (8.3°C) DB/43°F (6.1°C) WB. Pipe length: 25ft. (7.5m), Height difference: 0ft. (0m) (Outdoor unit - indoor unit).

Due to continuing research in new energy-saving technology, specifications are subject to change without notice.

# BREEZE™ | 4-TON SIDE DISCHARGE HEAT PUMP SYSTEM

**AIR HANDLER/INDOOR: WFH48Z223C**

**INVERTER HEAT PUMP CONDENSER/OUTDOOR: WFPU18Z483C**



## FEATURES

- Universal compatibility to existing air handler or gas furnace
- Maximum line length of 246 ft.
- Heating down to -13°F (-25°C)
- Built-in base pan heater
- Optional auxiliary heater kit
- Multi-position Air Handler



These products meet a stringent set of our company's internally defined sustainability standards



SYSTEM COMPONENTS	
Air Handler/Indoor Model Number	WFH48Z223C
Inverter Heat Pump Condenser/Outdoor Model Number	WFPU18Z483C
ELECTRICAL - Outdoor Unit	
Voltage/Phase/Frequency	208 / 230V, 1-Phase, 60Hz
Voltage Range - V	198 - 253
MCA - Outdoor Unit - A	35
Max Circuit Breaker - Outdoor Unit - A	50
MCA - Indoor Unit - A	6.8
Max Circuit Breaker - Indoor Unit - A	15
Rated Load Amperage (RLA) - A	21.8

CAPACITIES	
Cooling Capacity - Btu-h	48000
Cooling Capacity Range - Btu-h	18300 - 52000
Heating Capacity - Btu-h	47000
Heating Capacity Range - Btu-h	17600 - 52000

FAN SPEEDS	
Indoor Airflow Rate - CFM rated	1588
Outdoor Airflow Rate (H) - CFM	3525

SOUND PRESSURE	
Indoor (H) - dB(A)	64
Sound Pressure Level Outdoor (H) - dB(A)	59

LINESET REQUIREMENTS	
Connection Pipe Diameter - Liquid - in (mm)	3/8 (9.52)
Connection Pipe Diameter - Gas (Flare) - in (mm)	7/8 (22.22)
Minimum Lineset Length - ft (m)	10(3.04)
Maximum Lineset Length (Total) - ft (m)	246 (75)
Max Height Difference - ft (m)	98 (30)
Pre-charged Lineset Length -ft (m)	24.6 (7.5)

STATIC PRESSURE	
Static Pressure Range - inWG (Pa)	0 to 0.8 (0 to 200)

OUTDOOR TEMPERATURE OPERATING RANGE	
Cooling - °F (°C)	5 to 122 (-15 to 50)
Heating - °F (°C)	-13 to 75 (-25 to 24)

Voltage/Phase/Frequency	
Cooling - °F (°C)	61°F to 86°F (16°C to 30°C)
Heating - °F (°C)	61°F to 86°F (16°C to 30°C)
Moisture Removal pints/h (L/h)	4.6 (2.2)

EFFICIENCIES	
SEER2	17.50
EER2	10.10
HSPF2	8.50
COP2 @ 5 °F	1.90
ENERGY STAR®	Yes

NET DIMENSIONS & WEIGHTS	
Indoor Unit Net Dimensions (H x W x D) - in	53-7/8 x 22 x 24
Indoor Unit Net Dimensions (H x W x D) - mm	1,370 x 560 x 610
Indoor Unit Gross Dimensions (H x W x D) - in	55-1/2 x 25-1/4 x 28
Indoor Unit Gross Dimensions (H x W x D) - mm	1,410 x 640 x 710
Outdoor Unit Net Dimensions (H x W x D) - in	54-5/8 x 37-3/8 x 13-3/8
Outdoor Unit Net Dimensions (H x W x D) - mm	1,386 x 950 x 340
Outdoor Unit Gross Dimensions (H x W x D) - in	60-1/4 x 43-3/4 x 18-1/8
Outdoor Unit Gross Dimensions (H x W x D) - mm	1,530 x 1,110 x 460
Indoor Unit - Net Weight - lbs (kg)	187.2 (85)
Indoor Unit - Shipping Weight - lbs (kg)	214 (97)
Outdoor Unit - Net Weight - lbs (kg)	227.1 (103)
Outdoor Unit - Shipping - lbs (kg)	253.5 (115)

REFRIGERANT	
Refrigerant Type	410A
Refrigerant Weight - lb oz	8 lb 15 oz
Oil type	VG74

COMPRESSOR	
Compressor Type	Rotary Inverter

## WARRANTY

### Standard Warranty

10 Year Compressor, 7 Year Parts

### Warranty with Registration

10 Year Compressor, 10 Year Parts



Note: Specifications are based on the following conditions:

Cooling: Indoor temperature of 80°F (26.7°C) DB/67°F (19.4°C) WB, and outdoor temperature of 95°F (35°C)DB/75°F (23.9°C) WB, Heating: Indoor temperature of 70°F (21.1°C) DB/60°F (15.6°C) WB, and outdoor temperature of 47°F (8.3°C) DB/43°F (6.1°C) WB. Pipe length: 25ft. (7.5m), Height difference: 0ft. (0m) (Outdoor unit - indoor unit).

Due to continuing research in new energy-saving technology, specifications are subject to change without notice.

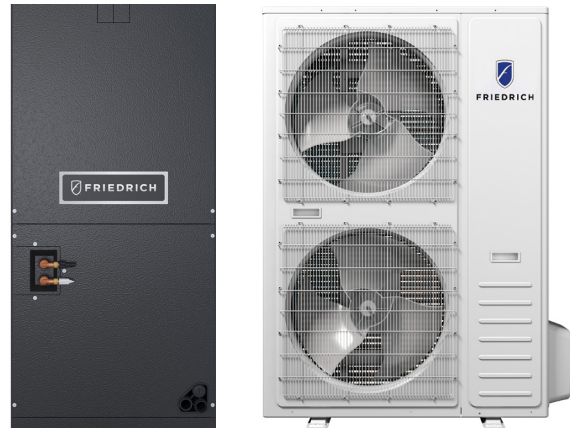
# BREEZE™ | 5-TON SIDE DISCHARGE HEAT PUMP SYSTEM

## AIR HANDLER/INDOOR WFH60Z223C

## INVERTER HEAT PUMP CONDENSER/OUTDOOR: WFPU17Z603C

### FEATURES

- Universal compatibility to existing air handler or gas furnace
- Maximum line length of 246 ft.
- Heating down to -13°F (-25°C)
- Built-in base pan heater
- Optional auxiliary heater kit
- Multi-position Air Handler



SYSTEM COMPONENTS	
Air Handler/Indoor Model Number	WFH60Z223C
Inverter Heat Pump Condenser/Outdoor Model Number	WFPU17Z603C
ELECTRICAL - Outdoor Unit	
Voltage/Phase/Frequency	208 / 230V, 1-Phase, 60Hz
Voltage Range - V	198 - 253
MCA - Outdoor Unit - A	35
Max Circuit Breaker - Outdoor Unit - A	50
MCA - Indoor Unit - A	6.8
Max Circuit Breaker - Indoor Unit - A	15
Rated Load Amperage (RLA) - A	31.0

CAPACITIES	
Cooling Capacity - Btu-h	56000
Cooling Capacity Range - Btu-h	18300 - 59400
Heating Capacity - Btu-h	56000
Heating Capacity Range - BTUH	17600 - 57500

FAN SPEEDS	
Indoor Airflow Rate - CFM rated	1706
Outdoor Airflow Rate (H) - CFM	3525

SOUND PRESSURE	
Indoor (H) - dB(A)	65
Sound Pressure Level Outdoor (H) - dB(A)	60

LINESET REQUIREMENTS	
Connection Pipe Diameter - Liquid - in (mm)	3/8 (9.52)
Connection Pipe Diameter - Gas - in (mm)	7/8 (22.22)
Minimum Lineset Length - ft (m)	10(3.04)
Maximum Lineset Length (Total) - ft (m)	246 (75)
Max Height Difference - ft (m)	98 (30)
Pre-charged Lineset Length -ft (m)	24.6 (7.5)



STATIC PRESSURE	
Static Pressure Range - inWG (Pa)	0 to 0.8 (0 to 200)
OUTDOOR TEMPERATURE OPERATING RANGE	
Cooling - °F (°C)	5 to 122 (-15 to 50)
Heating - °F (°C)	-13 to 75 (-25 to 24)
Voltage/Phase/Frequency	
Cooling - °F (°C)	61°F to 86°F (16°C to 30°C)
Heating - °F (°C)	61°F to 86°F (16°C to 30°C)
Moisture Removal pints/h (L/h)	4.6 (2.2)
EFFICIENCIES	
SEER2	17.00
EER2	8.25
HSPF2	8.50
COP2 @ 5 °F	2.90
ENERGY STAR®	No
NET DIMENSIONS & WEIGHTS	
Indoor Unit Net Dimensions (H x W x D) - in	53-7/8 x 22 x 24
Indoor Unit Net Dimensions (H x W x D) - mm	1,370 x 560 x 610
Indoor Unit Gross Dimensions (H x W x D) - in	55-1/2 x 25-1/4 x 28
Indoor Unit Gross Dimensions (H x W x D) - mm	1,410 x 640 x 710
Outdoor Unit Net Dimensions (H x W x D) - in	54-5/8 x 37-3/8 x 13-3/8
Outdoor Unit Net Dimensions (H x W x D) - mm	1,386 x 950 x 340
Outdoor Unit Gross Dimensions (H x W x D) - in	60-1/4 x 43-3/4 x 18-1/8
Outdoor Unit Gross Dimensions (H x W x D) - mm	1,530 x 1,110 x 460
Indoor Unit - Net Weight - lbs (kg)	187.2 (85)
Indoor Unit - Shipping Weight - lbs (kg)	214 (97)
Outdoor Unit - Net Weight - lbs (kg)	251.3 (114)
Outdoor Unit - Shipping - lbs (kg)	277.5 (126)
REFRIGERANT	
Refrigerant Type	410A
Refrigerant Weight - lb oz	8 lb 15 oz
Oil type	VG74
COMPRESSOR	
Compressor Type	Rotary Inverter
WARRANTY	

**Standard Warranty**  
10 Year Compressor, 7 Year Parts

**Warranty with Registration**  
10 Year Compressor, 10 Year Parts

Note: Specifications are based on the following conditions:  
Cooling: Indoor temperature of 80°F (26.7°C) DB/67°F (19.4°C) WB, and outdoor temperature of 95°F (35°C)DB/75°F (23.9°C) WB, Heating: Indoor temperature of 70°F (21.1°C) DB/60°F (15.6°C) WB, and outdoor temperature of 47°F (8.3°C) DB/43°F (6.1°C) WB. Pipe length: 25ft. (7.5m), Height difference: 0ft. (0m) (Outdoor unit - indoor unit).

Due to continuing research in new energy-saving technology, specifications are subject to change without notice.

<sup>1</sup>System rated performance is only guaranteed when paired with a properly installed Friedrich air handler. Performance may be diminished when paired with a non-Friedrich air handler, and eligibility for rebates may be voided. Due to continuing research in new energy-saving technology, specifications are subject to change without notice.



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.



ENERGY STAR® compliant in certain matched systems. See applicable specification sheets on Friedrich.com for further details. Proper sizing and installation of equipment is critical to achieve optimal performance.



Many Friedrich products have sustainability features, but the WFH24Z193C/WFPU17Z243C, WFH36Z193C/WFPU18Z363C, and WFH48Z223C/WFPU18Z483C models have earned our Sustainability Standout® seal, indicating that they are among the best of the best. We created the seal to help you more easily find the products that save energy, save money and save the planet.

*These products meet a stringent set of our company's internally defined sustainability standards*



Friedrich Air Conditioning Co. | [www.friedrich.com](http://www.friedrich.com)

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