



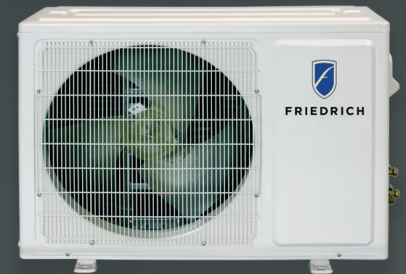
Specialty HVAC Products



FRIEDRICH

1883

2020



SINCE
1883

THE EXPERTS IN ROOM AIR CONDITIONING



2020 Specialty HVAC Products

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SINGLE ZONE	Friedrich System	Built-in <i>FastPro</i> [®] DESIGN		Johnstone		Cool Btu	Heat Btu	Voltage	SEER	Line Sizes	Low Temp Cooling	Low Temp Heating	High Temp Cooling	Line Length Min - Max	Max Height Difference	Circuit Breaker	PreCharge Line Length
		Wi-Fi		Indoor SKU	Outdoor SKU												
SELECT	FSHW091	—	—	B61-504	B61-505	9000	9500	115	18.0	1/4"-3/8"	0°F	-4° F	115° F	7 - 66	32.8	25A	25'
	FSHW121	—	—	B61-506	B61-507	12000	13000	115	18.0	1/4"-3/8"	0°F	-4° F	115° F	7 - 98	49.2	30A	25'
	FSHW183	—	—	B61-508	B61-509	18000	19800	230/208	18.0	1/4"-1/2"	0°F	-13° F	115° F	10 - 82	65.0	25A	25'
	FSHW243	—	—	B61-510	B61-511	24000	24000	230/208	18.0	1/4"-5/8"	0°F	-13° F	115° F	10 - 82	65.6	25A	25'
	FSHW363	—	—	B61-512	B61-513	36000	34600	230/208	18.0	1/4"-5/8"	0°F	-4° F	115° F	15 - 98	32.8	40A	25'
	FPHW091	—	✓	B61-473	B61-491	9000	9500	115	19.5	1/4"-3/8"	5°F	-4° F	115° F	9.8-50	33	20A	25'
	FPHW121	—	✓	B61-474	B61-492	1200	13000	115	22.0	1/4"-3/8"	5°F	-4° F	115° F	9.8-50	33	25A	25'
	FPHW093	—	✓	B61-481	B61-486	9000	9500	230/208	22.5	1/4"-3/8"	5°F	-4° F	115° F	9.8-50	33	15A	25'
	FPHW123	—	✓	B61-482	B61-487	12000	13000	230/208	22.0	1/4"-3/8"	5°F	-4° F	115° F	9.8-50	33	15A	25'
	FPHW183	—	✓	B61-470	B61-488	18000	19000	230/208	23.3	1/4"-1/2"	5°F	-4° F	115° F	9.8-66	33	20A	25'
PRO	FPHW243	—	✓	B61-471	B61-489	23500	26000	230/208	21.0	3/8"-5/8"	5°F	-4° F	115° F	9.8-66	33	30A	25'
	FPHW363	—	—	B61-472	B61-490	36000	36000	230/208	16.4	3/8"-3/4"	5°F	-4° F	115° F	9.8-66	33	35A	25'
	FPHW091A	✓	✓	B62-704	B61-491	9000	9500	115	19.5	1/4"-3/8"	5°F	-4° F	115° F	9.8-50	33	20A	25'
	FPHW121A	✓	✓	B62-705	B61-492	1200	13000	115	22.0	1/4"-3/8"	5°F	-4° F	115° F	9.8-50	33	25A	25'
	FPHW093A	✓	✓	B62-699	B61-468	9000	9500	230/208	22.5	1/4"-3/8"	5°F	-4° F	115° F	9.8-50	33	15A	25'
	FPHW123A	✓	✓	B62-700	B61-487	12000	13000	230/208	22.0	1/4"-3/8"	5°F	-4° F	115° F	9.8-50	33	15A	25'
	FPHW183A	✓	✓	B62-701	B61-488	18000	19000	230/208	23.3	1/4"-1/2"	5°F	-4° F	115° F	9.8-66	33	20A	25'
	FPHW243A	✓	✓	B62-702	B61-489	23500	26000	230/208	21.0	3/8"-5/8"	5°F	-4° F	115° F	9.8-66	33	30A	25'
	FPHW363A	✓	—	B62-703	B61-490	36000	36000	230/208	16.4	3/8"-3/4"	5°F	-4° F	115° F	9.8-66	33	35A	25'
	FRHW093	—	✓	B61-500	B61-501	9000	10500	230/208	28.0	1/4"-3/8"	0°F	-13° F	115° F	10-66	33	15A	25'
PREMIER	FRHW123	—	✓	B61-502	B61-503	12000	13000	230/208	25.0	1/4"-3/8"	0°F	-13° F	115° F	10-66	33	15A	25'
	FRHW093A	✓	✓	B62-712	B61-501	9000	10500	230/208	28.0	1/4"-3/8"	0°F	-13° F	115° F	10-66	33	15A	25'
	FRHW123A	✓	✓	B62-713	B61-503	12000	13000	230/208	25.0	1/4"-3/8"	0°F	-13° F	115° F	10-66	33	15A	25'
	FPHC093	—	—	B61-81	B61-495	9000	9000	230/208	20.0	1/4"-3/8"	5°F	-4° F	118° F	10-82	33	20A	25'
	FPHC123	—	—	B61-482	B74-748	12000	12000	230/208	19.0	1/4"-3/8"	5°F	-4° F	118° F	10-82	49	30A	25'
	FPHC183	—	—	B61-483	B61-496	18000	11942	230/208	20.0	1/4"-1/2"	5°F	-4° F	118° F	10-98	49	30A	25'
	FPHC243	—	—	B61-484	B61-498	24000	24000	230/208	19.0	3/8"-5/8"	-4° F	-4° F	118° F	25-164	98	30A	25'
	FPHC093A	✓	—	B62-707	B61-495	9000	9000	230/208	18.0	1/4"-3/8"	5°F	-4° F	118° F	10-82	33	20A	25'
	FPHC123A	✓	—	B62-708	B74-748	12000	12000	230/208	19.0	1/4"-3/8"	5°F	-4° F	118° F	10-82	49	30A	25'
	FPHC183A	✓	—	B62-709	B61-496	18000	11942	230/208	19.0	1/4"-1/2"	5°F	-4° F	118° F	10-98	49	30A	25'
Cassette Heat Pumps	FPHC243A	✓	—	B62-710	B61-498	24000	24000	230/208	19.0	3/8"-5/8"	-4° F	-4° F	118° F	25-164	98	30A	25'
	FPHC363A	✓	—	B61-485	B61-499	36000	42600	230/208	19.5	3/8"-3/4"	-4° F	-4° F	118° F	25-164	98	50A	25'
	FPHD093	—	—	B61-476	B61-495	9000	9000	230/208	17.0	1/4"-3/8"	5°F	-4° F	118° F	10-82	33	20A	25'
	FPHD123	—	—	B61-477	B61-496	12000	12000	230/208	19.0	1/4"-3/8"	5°F	-4° F	118° F	10-82	49	30A	25'
	FPHD183	—	—	B61-478	B61-497	18000	18000	230/208	19.0	1/4"-1/2"	5°F	-4° F	118° F	10-98	49	30A	25'
	FPHD243	—	—	B61-479	B61-498	24000	24000	230/208	18.0	3/8"-5/8"	-4° F	-4° F	118° F	25-164	98	30A	25'
	FPHD363	—	—	B61-480	B61-499	36000	36000	230/208	18.0	3/8"-3/4"	-4° F	-4° F	118° F	25-164	98	50A	25'
The Insider [®] Ducted Heat Pumps	FPHD093	—	—	B61-476	B61-495	9000	9000	230/208	17.0	1/4"-3/8"	5°F	-4° F	118° F	10-82	33	20A	25'
	FPHD123	—	—	B61-477	B61-496	12000	12000	230/208	19.0	1/4"-3/8"	5°F	-4° F	118° F	10-82	49	30A	25'
	FPHD183	—	—	B61-478	B61-497	18000	18000	230/208	19.0	1/4"-1/2"	5°F	-4° F	118° F	10-98	49	30A	25'
	FPHD243	—	—	B61-479	B61-498	24000	24000	230/208	18.0	3/8"-5/8"	-4° F	-4° F	118° F	25-164	98	30A	25'
	FPHD363	—	—	B61-480	B61-499	36000	36000	230/208	18.0	3/8"-3/4"	-4° F	-4° F	118° F	25-164	98	50A	25'
	FPHD093	—	—	B61-476	B61-495	9000	9000	230/208	17.0	1/4"-3/8"	5°F	-4° F	118° F	10-82	33	20A	25'
	FPHD123	—	—	B61-477	B61-496	12000	12000	230/208	19.0	1/4"-3/8"	5°F	-4° F	118° F	10-82	49	30A	25'
	FPHD183	—	—	B61-478	B61-497	18000	18000	230/208	19.0	1/4"-1/2"	5°F	-4° F	118° F	10-98	49	30A	25'
	FPHD243	—	—	B61-479	B61-498	24000	24000	230/208	18.0	3/8"-5/8"	-4° F	-4° F	118° F	25-164	98	30A	25'
	FPHD363	—	—	B61-480	B61-499	36000	36000	230/208	18.0	3/8"-3/4"	-4° F	-4° F	118° F	25-164	98	50A	25'




MULTI ZONE	Friedrich System	Built-in Wi-Fi	FastPro [®] DESIGN		Johnstone		Cool Btu	Heat Btu	Voltage	SEER	Line Sizes	Low Temp Cooling	Low Temp Heating	High Temp Cooling	Line Length Min - Max	Max Height Difference	Circuit Breaker	PreCharge Line Length
			Indoor SKU	Outdoor SKU														
OUTDOOR UNITS	2 Zones Only	FPHMR18A3A	NA	NA	NA	B62-711	18000	18000	230/208	14° F	1/4" - 3/8"	14° F	-13° F	115° F	SEE BROCHURE	49"	30A	49'
	2 or 3 Zones	FPHMR24A3A	NA	NA	NA	B61-493	24000	24000	230/208	14° F	1/4" - 3/8"	14° F	-13° F	115° F	SEE BROCHURE	49"	30A	74'
	3 or 4 Zones	FPHMR36A3A	NA	NA	NA	B61-494	32000	36000	230/208	14° F	1/4" - 3/8"	14° F	-13° F	115° F	SEE BROCHURE	49"	50A	98'
PRO Wall-mounted Heat Pumps		FPHMW07A3A	—	✓	B61-475	7000	8500	230/208	1/4" - 3/8"									
		FPHFW09A3A	—	✓	B61-468	9000	9500	230/208	1/4" - 3/8"									
		FPHFW12A3A	—	✓	B61-469	12000	13000	230/208	1/4" - 3/8"									
		FPHFW18A3A	—	✓	B61-470	18000	19000	230/208	1/4" - 1/2"									
		FPHFW24A3A	—	✓	B61-471	24000	24200	230/208	3/8" - 5/8"									
		FPHMW07A3B	✓	✓	B62-706	7000	8500	230/208	1/4" - 3/8"									
		FPHFW09A3B	✓	✓	B62-699	9000	9500	230/208	1/4" - 3/8"									
		FPHFW12A3B	✓	✓	B62-700	12000	13000	230/208	1/4" - 3/8"									
		FPHFW18A3B	✓	✓	B62-701	18000	19000	230/208	1/4" - 1/2"									
		FPHFW24A3B	✓	✓	B62-702	24000	24200	230/208	3/8" - 5/8"									
		FPHFC09A3A	—	—	B61-481	9000	10200	230/208	1/4" - 3/8"									
		FPHFC12A3A	—	—	B61-482	12000	13500	230/208	1/4" - 3/8"									
PRO Cassette Heat Pumps		FPHFC18A3A	—	—	B61-483	18000	20400	230/208	1/4" - 1/2"									
		FPHFC24A3A	—	—	B61-484	24000	27000	230/208	3/8" - 5/8"									
		FPHFC09A3B	✓	—	B62-707	9000	10200	230/208	1/4" - 3/8"									
		FPHFC12A3B	✓	—	B62-708	12000	13500	230/208	1/4" - 3/8"									
		FPHFC18A3B	✓	—	B62-709	18000	20400	230/208	1/4" - 1/2"									
		FPHFC24A3B	✓	—	B62-710	24000	27000	230/208	3/8" - 5/8"									
		FPHFD09A3A	—	—	B61-476	9000	10000	230/208	1/4" - 3/8"									
PRO The Insider [®] Ducted Heat Pumps		FPHFD12A3A	—	—	B61-477	12000	12500	230/208	1/4" - 3/8"									
		FPHFD18A3A	—	—	B61-478	18000	19000	230/208	1/4" - 1/2"									
		FPHFD24A3A	—	—	B61-479	24000	24000	230/208	3/8" - 5/8"									

NOTE: Cassette grilles must be ordered separately: FPCG0912 grille for B62-707, B62-708, B61-481 and B61-482. FPCG182436 grille for B62-709, B62-710, B61-485, B61-483, B61-484, B62-709 and B62-710. See page 18 for multi zone configurations and AHRI ratings



THE CONTRACTOR'S CHOICE FOR DUCTLESS

Friedrich has three exceptional lines of ductless with unique features for easy installation. For contractors, this means less time on the job, and the opportunity to provide your customer with maintenance agreements on equipment that is cleaning and service friendly.

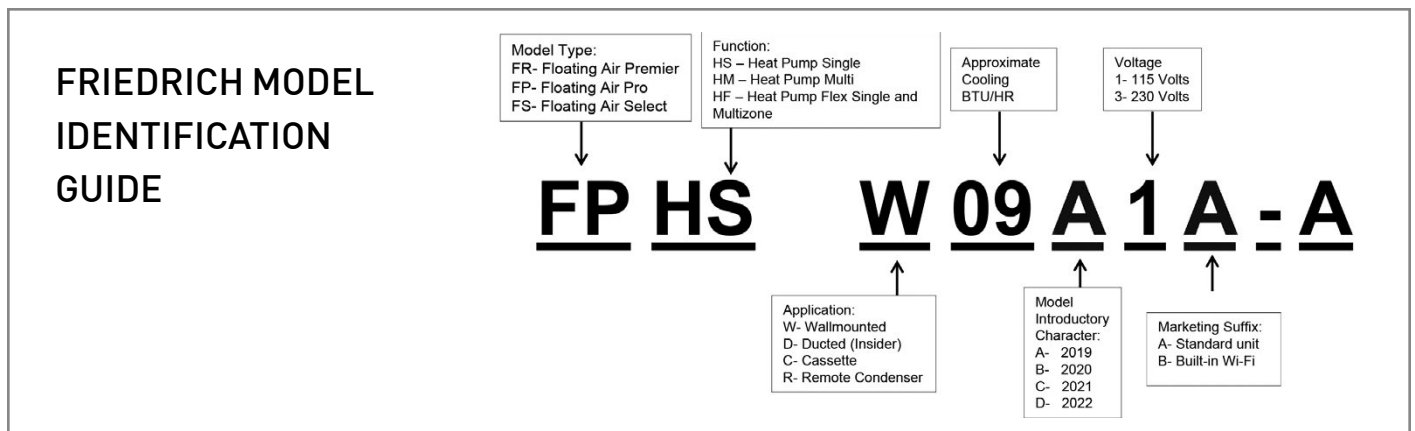
<p>FLOATING AIR® PREMIER</p> <p>SINGLE ZONE</p> <p>Wall-mounted</p>	<ul style="list-style-type: none"> • Highest efficiencies • FastPro® design for fast installation, cleaning and service • Available with built-in Wi-Fi • Extended operating ranges, heating and cooling 	 <p>FastPro®</p>
<p>FLOATING AIR® PRO</p> <p>SINGLE ZONE AND MULTI ZONE</p> <p>Wall-mounted</p> <p>Ceiling Cassettes</p> <p>The Insider® Concealed Ducted Units</p>	<ul style="list-style-type: none"> • Excellent efficiencies • FastPro® design for fast installation, cleaning and service • Available with built-in Wi-Fi • Extended operating ranges, heating and cooling • 115V wall-mounted heat pumps 	 <p>FastPro®</p>
<p>FLOATING AIR® SELECT</p> <p>SINGLE ZONE</p> <p>Wall-mounted</p>	<ul style="list-style-type: none"> • High efficiency • Moderate pricing • Exceptional value • 115V wall-mounted heat pumps 	

FEATURE COMPARISON

A feature-by-feature comparison to help you select the best ductless system for your application.

SYSTEM TYPE	WALL-MOUNTED				CASSETTE		CONCEALED DUCTED	
Zones	SINGLE ZONE			MULTI ZONE	SINGLE ZONE	MULTI ZONE	SINGLE ZONE	MULTI ZONE
Floating Air® Series	Premier	Pro	Select	Pro	Pro	Pro	Pro The Insider™	Pro The Insider™
Installation	Wall	Wall	Wall	Wall	Ceiling	Ceiling	Concealed	Concealed
FastPro® Design	✓	✓*	—	✓	—	—	—	—
Heat pump	✓	✓	✓	✓	✓	✓	✓	✓
115 volt models	—	✓	✓	—	—	—	—	—
SEER	Up to 28.0	Up to 23.3	Up to 18.0	Up to 22.0	Up to 19.0	Up to 22.0	Up to 17.6	Up to 21.0
Low ambient cooling operation	0° F	5° F	0° F	5° F	5° F	14° F	5° F	-4° F
Low ambient heating operation	-13° F	-4° F**	-4° F**	-13° F	-4° F	-13° F	-4° F	-13° F
Inverter driven compressor	✓	✓	✓	✓	✓	✓	✓	✓
Built-in Wi-Fi models, FriedrichGo app	✓	✓	—	✓	✓	✓	—	—
Google Home/Amazon Alexa compatible	✓	✓	—	✓	✓	✓	—	—
Auto changeover	✓	✓	✓	—	✓	—	✓	—
24- Hr. Programmable timer	✓	✓	✓	✓	✓	✓	✓	✓
Remote control	✓	✓	✓	✓	✓	✓	—	—
Wall controller option	✓	✓*	✓	✓	✓	✓	Included	Included
7-Day Programmability	—	—	—	—	—	—	✓	✓
(with wall control)	✓	✓	✓	✓	✓	✓	✓	✓
Auto restart	✓	✓	✓	✓	✓	✓	✓	✓
Surge cool/heat	✓	✓	✓	✓	✓	✓	✓	✓
Dry mode	✓	✓	✓	✓	✓	✓	✓	✓
Auto Clean	✓	✓	✓	✓	✓	✓	✓	✓
Advanced Corrosion Protection	✓	✓	✓	✓	✓	✓	✓	✓
4-way auto swing	✓	✓	✓	✓	✓	✓	—	—
Washable, antimicrobial air filters	✓	✓	✓	✓	✓	✓	✓	✓

*Feature not available on FPHSW36A3A/B. ** [9K/12K/18K -4°F] [18K/24K -13°F]





THE EASIEST DUCTLESS TO INSTALL, CLEAN & SERVICE

FastPro[®]

Exclusively on
Floating Air[®] Premier
and Pro Series

The Problem

On typical ductless indoor units, accessing the indoor coils is extremely difficult and takes so much time that a thorough cleaning may be next to impossible.

Access to piping, wire terminal blocks, the fan and fan components is also a challenge.

The Solution:

Friedrich FastPro was designed with the HVAC technician in mind. In a few easy steps that can be performed in minutes, the entire blower wheel assembly can be removed for easier, faster cleaning and service.

Also, you'll have easy access to the terminal blocks. FastPro will save you hours on the job site.

*Faster than similar installation, cleaning and service performed on standard ductless wall-mounted units.



40%

FASTER*
TO INSTALL

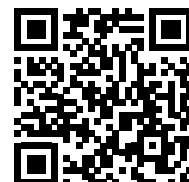
45%

FASTER*
TO CLEAN

50%

FASTER*
TO SERVICE

Scan the code
with your smartphone
camera to learn more
about **FastPro**[®]



IN A FEW EASY STEPS

You can access the blower wheel assembly and slide it out for full access to the indoor coil



Back out electrical panel screws



Remove electrical access panels (2)



Lock the access panel



Unplug the wire harness



Remove screws then slide out the blower wheel assembly



Complete access to the coils for easy cleaning

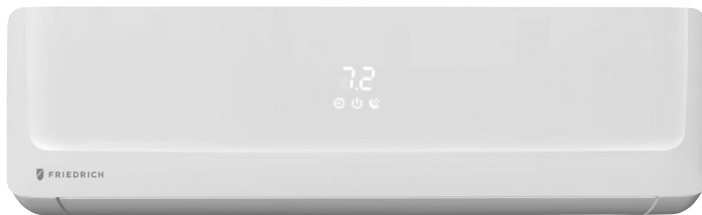
FastPro®

UNIQUE FEATURES
FOR FASTER
INSTALLATION AND
EASIER SERVICE

- Alignment arrows on the Friedrich wall bracket help you mark and drill the hole in the wall accurately, and with total confidence
- Easy-to-remove modular drain pan assembly
- Quick access to tangential blower and motor makes repairs easier
- Clear access to piping
- Built-in Wi-Fi models available
- Easy access to the wire terminal blocks
- Included kickstand tilts unit away from the wall providing ample space for your hands to work
- Onboard error codes help to ensure trouble-free operation
- Advanced corrosion protection
- Auto clean
- Washable, antimicrobial air filters

SINGLE ZONE • WALL-MOUNTED HEAT PUMPS

Top cooling and heating performance in extreme climates.
28.0 SEER - our highest efficiencies ever!

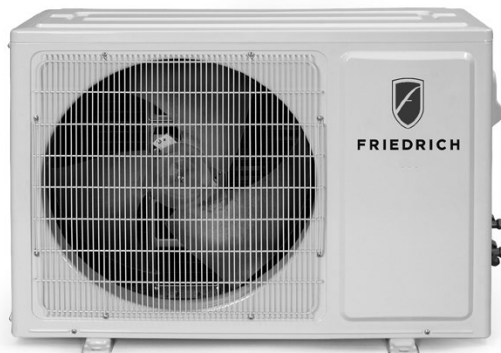


Wi-Fi available on select models for control anytime, anywhere

- Easy to use FriedrichGo™ app
- Control with smartphone
- Compatible with Amazon Alexa and Google Home



WIRELESS REMOTE
WITH THE ABILITY
TO CHANGE TO A
COOL-ONLY REMOTE



Features for comfort and convenience

- Create customizable, 7-day schedules
- Precision Inverter® technology (variable speed compressor)
- Fast Pro® design for the fastest access for maintenance of any wall-mounted ductless system
- Soft start compressor
- BLDC motor
- Our highest efficiencies for the lowest operating cost
- DiamonBlue Advanced Corrosion Protection®
- Auto Clean indoor coil
- Cooling/Heating/Fan/Auto mode
- Surge Cool/Heat
- Natural air flow
- Ultra quiet operation
- Sleep mode
- Auto restart
- Auto changeover
- 24-hour on/off timer
- ENERGY STAR® qualified model
- Hidden display (only visible during operation)

Operates in extreme conditions

- Low ambient operation down to 0°F (Cooling mode)
- Low ambient operation down to -13°F (Heating mode)
- Low temperature compressor start-up protection



Wi-Fi


FastPro®

DIAMONBLUE
Advanced Corrosion Protection®

**PRECISION
INVERTER®**



PREMIER SERIES SPECIFICATIONS

PERFORMANCE RATINGS		Single Zone Wall-Mounted - Heat Pumps	
		9k	12k
INDOOR MODEL	Friedrich Model Johnstone SKU	FRHSW09A3A B61-500	FRHSW12A3A B61-502
	 Friedrich Model Johnstone SKU	FRHSW09A3B Wi-Fi B62-712 Wi-Fi	FRHSW12A3B Wi-Fi B62-713 Wi-Fi
OUTDOOR MODEL	Friedrich Model Johnstone SKU	FRHSR09A3A B61-501	FRHSR12A3A B61-503
SPECIFICATIONS			
CAPACITY COOLING (RATED)	Btu	9000	12000
CAPACITY COOLING (MIN-MAX)	Btu	3600-10000	4000-13500
CAPACITY HEATING @47°F (RATED)	Btu	10500	13000
CAPACITY HEATING @17°F (RATED)	Btu	6500	8000
CAPACITY HEATING (MIN-MAX)	Btu	3600-10500	4000-14000
SENSIBLE HEAT RATIO		76%	77%
HSPF		12.5	12.0
SEER		28.0	25.0
EER		16.1	15.4
ENERGY STAR		YES	YES
MOISTURE REMOVAL	Pts/h	1.9	2.5
AIRFLOW (QUIET, LOW, MED, HIGH)	CFM	416/384/355/279	598/536/446/345
SOUND RATING - INDOOR	dB-A	39/34/31	45/41/39
SOUND RATING - OUTDOOR	dB-A	55	55
OPERATING RANGE (COOLING)	°F	0° -115°	0° -115°
OPERATING RANGE (HEATING)	°F	-13° -75°	-13° -75°
EST. YEARLY OPERATING COST	\$	50	70
ELECTRICAL DATA			
POWER SOURCE	V-Hz-Phase	230/208-60-1	230/208-60-1
MINIMUM AMPACITY	A	10A	12A
COOLING WATTS	W	559	779
COOLING AMPS		2.3	4.6
HEATING WATTS	W	905	856
HEATING AMPS		3.4	4.8
MAX. TD FUSE/BREAKER	A	15A	15A
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 14AWG	4 x 14AWG
REFRIGERATION SYSTEM			
REFRIGERANT		R410a	R410a
COMPRESSOR TYPE		Rotary	Rotary
CONNECTIONS		Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4
SUCTION LINE O.D.	in	3/8	3/8
FACTORY PRECHARGE	ft	25	25
REFRIGERANT CHARGE	oz	38.8	45.9
MIN./MAX. LINE LENGTH	ft	10-66	10-66
MAX. HEIGHT DIFFERENCE	ft	33	33
DIMENSIONS & WEIGHT			
INDOOR UNIT			
W X H X D	in	33 7/8 x 11 1/8 x 8 1/2	38 1/8 x 13 1/8 x 10
NET WEIGHT	lbs	22	28.5
SHIPPING WEIGHT	lbs	26.5	34
OUTDOOR UNIT			
W X H X D	in	31 7/8 x 23 x 11	31 7/8 x 23 x 11
NET WEIGHT	lbs	75	84
SHIPPING WEIGHT	lbs	81.5	92.5
TOTAL NET WEIGHT	lbs	97	112.5
TOTAL SHIPPING WEIGHT	lbs	108	126.5

Your operating costs will depend on your utility rates and use.

The estimated operating cost is based on a electricity cost of \$.12 per kWh.

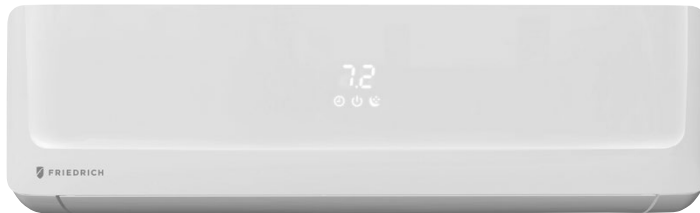
For more information, visit www.ftc.gov/energy.

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



SINGLE ZONE • WALL-MOUNTED HEAT PUMPS

The contractor's line with extensive features to make installation and service faster and easier. Exceptional efficiency and dependable performance.



Wi-Fi available on select models for control anytime, anywhere

- Easy to use FriedrichGo™ app
- Control with smartphone
- Compatible with Amazon Alexa and Google Home



WIRELESS REMOTE WITH THE ABILITY TO CHANGE TO A COOL-ONLY REMOTE



Features for comfort and convenience

- Create customizable, 7-day schedules
- Precision Inverter® technology (variable speed compressor)
- Fast Pro® design for the fastest access for maintenance of any wall-mounted ductless system
- Soft start compressor
- BLDC motor
- Auto Clean indoor coil
- Cooling/Heating/Fan/Auto mode
- LCD remote
- Surge Cool/Heat
- Tangential fan for optimum air flow
- Ultra quiet operation
- Sleep mode
- Auto restart
- Auto changeover
- 24-hour on/off timer
- ENERGY STAR® qualified models
- Easy-to-read temperature display

Operates in extreme conditions

- Low ambient operation down to 5°F (Cooling mode)
- Low ambient operation down to -4°F (Heating mode)
- Low temperature compressor start-up protection



Wi-Fi


FastPro®

DIAMONBLUE
Advanced Corrosion Protection®

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INVERTER®**



PRO SERIES SPECIFICATIONS

PERFORMANCE RATINGS		115 volt models		230/208 volt models	
INDOOR MODELS	Friedrich Model Johnstone SKU	FPHSW09A1A B61-473	FPHSW12A1A B61-474	FPHFW09A3A B61-468	FPHFW12A3A B61-469
	 Wi-Fi Friedrich Model Johnstone SKU	FPHSW09A1B Wi-Fi B62-704 Wi-Fi	FPHSW12A1B Wi-Fi B62-705 Wi-Fi	FPHFW09A3B Wi-Fi B62-699 Wi-Fi	FPHFW12A3B Wi-Fi B62-700 Wi-Fi
OUTDOOR MODEL	Friedrich Model Johnstone SKU	FPHSR09A1A B61-491	FPHSR12A1A B61-492	FPHSR09A3A B61-486	FPHSR12A3A B61-487
SPECIFICATIONS					
CAPACITY COOLING (RATED)	Btu	9000	12000	9000	12000
CAPACITY COOLING MIN - MAX	Btu	3600-10000	4000-13500	3600-10000	4000-13500
CAPACITY HEATING (RATED) @ 47°F	Btu	9500	13000	9500	13000
CAPACITY HEATING (RATED) @ 17°F	Btu	5000	7500	5000	7500
CAPACITY HEATING MIN - MAX	Btu	3600-10500	4000-14000	3600-10500	4000-14000
SENSIBLE HEAT RATIO		76%	77%	76%	77%
COP		3.56	3.46	3.88	3.42
HSPF		10.0	10.5	10.7	10.5
SEER		19.5	22.0	22.5	22.0
EER		12.8	13.0	13.7	13.0
ENERGY STAR		YES	YES	YES	YES
MOISTURE REMOVAL	Pts/h	1.9	2.5	1.9	2.5
AIRFLOW (HIGH/MED/LOW/QUIET)	CFM	424/382/323/247	424/382/323/247	424/382/323/247	424/382/323/247
SOUND RATING - INDOOR (HIGH/MED/LOW/QUIET)	dB-A	39/32/29/26	39/32/29/26	39/32/29/26	39/32/29/26
SOUND RATING - OUTDOOR	dB-A	53	53	53	53
OPERATING RANGE (HEATING)	°F	[-4° - 75°]	[-4° - 75°]	[-4° - 75°]	[-4° - 75°]
OPERATING RANGE (COOLING)	°F	[5° - 115°]	[5° - 115°]	[5° - 115°]	[5° - 115°]
EST. YEARLY OPERATING COST	U.S. \$	\$61	\$72	\$53	\$72
ELECTRICAL DATA					
POWER SOURCE	V-Hz-Phase	115-60-1	115-60-1	230/208-60-1	230/208-60-1
MIN. AMPACITY	A	13.5	16.5	10	10
COOLING WATTS	W	700	950	655	960
COOLING AMPS		6.3	8.3	2.9	4.3
HEATING WATTS	W	780	1100	720	1110
HEATING AMPS		7.0	9.7	3.1	5.0
MAX. TD FUSE/BREAKER	A	20	25	15	15
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
REFRIGERATION SYSTEM					
REFRIGERANT		R410a	R410a	R410a	R410a
COMPRESSOR TYPE		Rotary	Rotary	Rotary	Rotary
CONNECTIONS		Flare	Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4	1/4	1/4
SUCTION LINE O.D.	in	3/8	3/8	3/8	3/8
REFRIGERANT CHARGE	oz.	33.5	40.9	33.5	40.9
FACTORY PRECHARGE	ft.	25	25	25	25
MIN. / MAX. LINE LENGTH	ft	9.8-50	9.8-50	9.8-50	9.8-50
MAX. HEIGHT DIFFERENCE	ft	33	33	33	33
DIMENSIONS & WEIGHT					
INDOOR UNIT					
W x H x D	in	33 7/8 x 11 1/8 x 8 1/2		33 7/8 x 11 1/8 x 8 1/2	
NET WEIGHT	lbs	20	20	20	20
SHIPPING WEIGHT	lbs	24.25	24.25	24.25	24.25
OUTDOOR UNIT					
W x H x D	in	28 1/8 x 19 x 9 1/2	31 7/8 x 23 x 11	28 1/8 x 19 x 9 1/2	31 7/8 x 23 x 11
NET WEIGHT	lbs	65	78	59.5	72.5
SHIPPING WEIGHT	lbs	68	82.5	65	79
TOTAL NET WEIGHT	lbs	85	98	79.5	92.5
TOTAL SHIPPING WEIGHT	lbs	92.25	106.75	89.25	103.25

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.12 per kWh.

For more information, visit www.ftc.gov/energy.

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





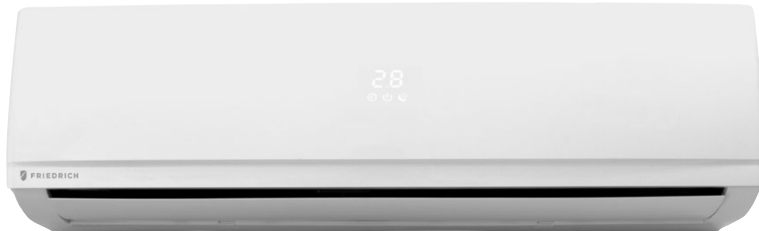
Pro Series

SINGLE ZONE • WALL-MOUNTED HEAT PUMPS

The contractor's line with extensive features to make installation and service faster and easier. Exceptional efficiency and dependable performance.



FPHFW18A3B, FPHFW24A3B



FPHSW36A3B

Wi-Fi available on select models for control anytime, anywhere

- Easy to use FriedrichGo™ app
- Control with smartphone
- Compatible with Amazon Alexa and Google Home



WIRELESS REMOTE
WITH THE ABILITY
TO CHANGE TO A
COOL-ONLY REMOTE



Features for comfort and convenience

- Create customizable, 7-day schedules
- Precision Inverter® technology (variable speed compressor)
- Fast Pro® design for the fastest access for maintenance of any wall-mounted ductless. Feature not on model FPHSW36A3A (B)
- Soft start compressor
- BLDC motor
- Auto Clean indoor coil
- Cooling/Heating/Fan/Auto mode
- LCD remote
- Surge Cool/Heat
- Tangential fan for optimum air flow
- Ultra quiet operation
- Sleep mode
- Auto restart
- Auto changeover
- 24-hour on/off timer
- ENERGY STAR® qualified model
- Easy-to-read temperature display

Operates in extreme conditions

- Low ambient operation down to 5°F (Cooling mode)
- Low ambient operation down to -4°F (Heating mode)
- Low temperature compressor start-up protection



Wi-Fi


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Advanced Corrosion Protection®

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INVERTER®**



PRO SERIES SPECIFICATIONS

PERFORMANCE RATINGS		230/208 volt models		
INDOOR MODEL	Friedrich Model	FPHFW18A3A	FPHFW24A3A	FPHSW36A3A
	Johnstone SKU	B61-470	B61-471	B61-472
	 Wi-Fi	FPHFW18A3B Wi-Fi	FPHFW24A3B Wi-Fi	FPHSW36A3B Wi-Fi
	Johnstone SKU	B62-701 Wi-Fi	B62-702 Wi-Fi	B62-703 Wi-Fi
OUTDOOR MODEL	Friedrich Model	FPHSR18A3A	FPHSR24A3A	FPHSR36A3A
	Johnstone SKU	B61-488	B61-489	B61-490
SPECIFICATIONS				
CAPACITY COOLING (RATED)	Btu	18000	23500	36000
CAPACITY COOLING MIN - MAX	Btu	6500-19500	8000-26500	12000-38000
CAPACITY HEATING (RATED) @ 47°F	Btu	19000	26000	36000
CAPACITY HEATING (RATED) @ 17°F	Btu	11600	14500	18700
CAPACITY HEATING MIN - MAX	Btu	6500-20000	8000-26500	12000-38000
SENSIBLE HEAT RATIO		80%	76%	79%
COP		3.40	3.05	3.05
HSPF		11.6	10.5	8.8
SEER		23.3	21.0	16.4
EER		13	12.5	8.6
ENERGY STAR		YES	YES	—
MOISTURE REMOVAL	Pts/h	3.2	5.1	6.8
AIRFLOW (HIGH/MED/LOW/QUIET)	CFM	618/565/482/382	735/665/559/441	1030/824/706/588
SOUND RATING - INDOOR (HIGH/MED/LOW/QUIET)	dB-A	45/41/37/34	47/42/36/33	50/45/40/38
SOUND RATING - OUTDOOR	dB-A	55	58	60
OPERATING RANGE (HEATING)	°F	-4° - 75°	-4° - 75°	-4° - 75°
OPERATING RANGE (COOLING)	°F	5° - 115°	5° - 115°	5° - 115°
EST. YEARLY OPERATING COST	U.S. \$	\$124	\$169	\$376
ELECTRICAL DATA				
POWER SOURCE	V-Hz-Phase	230/208-60-1	230/208-60-1	230/208-60-1
MIN. AMPACITY	A	15	20	30
COOLING WATTS	W	1385	1880	4186
COOLING AMPS		6.3	8.3	18.5
HEATING WATTS	W	1638	2500	3459
HEATING AMPS		7.2	11.1	16
MAX. TD FUSE/BREAKER	A	20	30	35
POWER AND COMMUNICATION CABLE	No.x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
REFRIGERATION SYSTEM				
REFRIGERANT		R410a	R410a	R410a
COMPRESSOR TYPE		Rotary	Rotary	Rotary
CONNECTIONS		Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4	3/8	3/8
SUCTION LINE O.D.	in	1/2	5/8	3/4
REFRIGERANT CHARGE	oz.	54.7	66.3	81.2
FACTORY PRECHARGE	ft.	25	25	25
MIN. / MAX. LINE LENGTH	ft	9.8-66	9.8-66	9.8-66
MAX. HEIGHT DIFFERENCE	ft	33	33	33
DIMENSIONS & WEIGHT				
INDOOR UNIT				
W x H x D	in	45 1/8 x 13 1/8 x 10		50 5/8 X 13 5/8 X 10 1/4
NET WEIGHT	lbs	33	33	40
SHIPPING WEIGHT	lbs	38.5	38.5	48
OUTDOOR UNIT				
W x H x D	in	33 7/8 x 25 1/2 x 12 1/8	34 7/8 x 31 1/4 x 14 3/8	34 7/8 x 31 1/4 x 14 3/8
NET WEIGHT	lbs	99	123.5	141
SHIPPING WEIGHT	lbs	108	141	152
TOTAL NET WEIGHT	lbs	132	156.5	181
TOTAL SHIPPING WEIGHT	lbs	146.5	179.5	200

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.12 per kWh.

For more information, visit www.ftc.gov/energy.

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SINGLE ZONE • CEILING CASSETTE HEAT PUMPS

Compact cassette units install in a drop ceiling and mount flush to the ceiling for a clean look and efficient installation.



Wi-Fi available on select models for control anytime, anywhere

- Easy to use FriedrichGo™ app
- Control with smartphone
- Compatible with Amazon Alexa and Google Home



WIRELESS REMOTE WITH THE ABILITY TO CHANGE TO A COOL-ONLY REMOTE

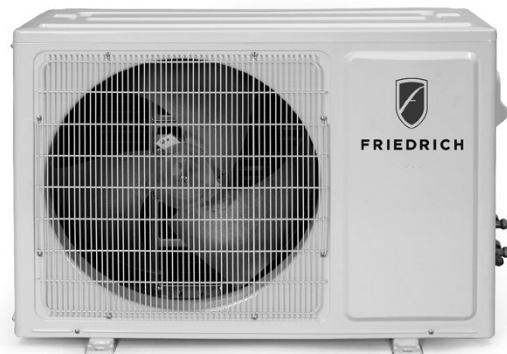
Features for comfort and convenience

- Create customizable, 7-day schedules
- 24-hour on/off timer
- Precision Inverter® technology (variable speed compressor)
- Soft start compressor
- Natural air flow
- 4-way cooling
- Surge Cool/Heat
- Cooling/Heating/Fan mode
- Dry mode
- Sleep mode
- Independent vane control
- 3 fan speeds
- Ultra-quiet turbo fan
- Evaporator frost control
- Auto restart
- Auto changeover
- DiamonGold Advanced Corrosion Protection™
- Clean, modern look
- Flexible installation
- ENERGY STAR® qualified models
- Precise air distribution

Operates in extreme conditions

- Built-in low ambient, down to 5°F on 9k/12k/18k models, down to -4°F on 24k/36k models (Cooling mode)
- Low ambient operation down to -4°F (Heating mode)

NOTE: Cassette grilles are sold separately.



Wi-Fi


DIAMONBLUE
Advanced Corrosion Protection®

**PRECISION
INVERTER®**

5YR.
PARTS
WARRANTY

7YR.
COMPRESSOR
WARRANTY

PRO SERIES SPECIFICATIONS

PERFORMANCE RATINGS		Single Zone Cassette - Heat Pumps				
INDOOR MODEL	Friedrich Model Johnstone SKU	FPHFC09A3A B61-481	FPHFC12A3A B61-482	FPHFC18A3A B61-483	FPHFC24A3A B61-484	FPHSC36A3B Wi-Fi
	 Friedrich Model Johnstone SKU	FPHFC09A3B Wi-Fi B62-707 Wi-Fi	FPHFC12A3B Wi-Fi B62-708 Wi-Fi	FPHFC18A3B Wi-Fi B62-709 Wi-Fi	FPHFC24A3B Wi-Fi B62-710 Wi-Fi	B61-485 Wi-Fi
OUTDOOR MODEL	Friedrich Model Johnstone SKU	FPHFR09A3A B61-495	FPHFR12A3A B61-496	FPHFR18A3A B61-497	FPHFR24A3A B61-498	FPHFR36A3A B61-499
SPECIFICATIONS						
CAPACITY COOLING (RATED)	Btu	9000	12000	18000	24000	36000
CAPACITY COOLING (MIN-MAX)	Btu	4850-11600	5800-13100	8000-19200	8600-25200	12600-36800
CAPACITY HEATING @47° F (RATED)	Btu	9000	12000	11942	24000	42600
CAPACITY HEATING @17° F (RATED)	Btu	5120	6800	7500	19600	27300
CAPACITY HEATING (MIN-MAX)	Btu	4340-12280	6000-14400	7000-21200	7600-28400	15000-42600
SENSIBLE HEAT RATIO		76%	77%	76%	76%	79%
COP (@47°F)	.	4.00	3.80	3.90	3.61	3.31
HSPF		10.00	10.00	10.00	10.00	10.50
SEER		18	19	19	19	19.5
EER		12.5	12.5	12.7	12.5	10.6
ENERGY STAR *		YES	YES	YES	YES	—
MOISTURE REMOVAL	Pts/h	2	3	5	5.1	7.61
AIRFLOW (LOW, MED, HIGH)	CFM	235/285/309	235/294/353	380/457/588	400/530/647	676/794/941
SOUND RATING - INDOOR H/M/L	dB(A)	40/33/28	35/32/29	38/35/33	43/39/36	49/43/39
SOUND RATING - OUTDOOR	dB(A)	52	54	68	54	61
OPERATING RANGE (COOLING)	°FDB	5-118	5-118	5-118	-4-118	-4-118
OPERATING RANGE (HEATING)	°FWB	-4-75	-4-75	-4-75	-4-75	-4-75
EST. YEARLY OPERATING COST	\$	53	72	124	169	376
ELECTRICAL DATA						
POWER SOURCE	V	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
MINIMUM AMPACITY	A	23	23	23	23	27
COOLING WATTS	W	720	960	1420	1920	3380
COOLING AMPS		3.6	4.3	6.3	8.6	14.6
HEATING AMPS		3.5	4.1	6.5	8.7	14.0
MAX. TD FUSE/BREAKER	A	20	30	30	30	50
POWER AND COMMUNICATION CABLE No. x AWG		4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
REFRIGERATION SYSTEM						
REFRIGERANT		R410a	R410a	R410a	R410a	R410a
COMPRESSOR TYPE		Rotary	Rotary	Rotary	Rotary	Rotary
CONNECTIONS		Flare	Flare	Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4	1/4	3/8	3/8
SUCTION LINE O.D.	in	3/8	3/8	1/2	5/8	3/4
FACTORY PRECHARGE	ft	25	25	25	25	25
REFRIGERANT CHARGE	oz	33.5	45.9	56.5	75	111
MIN./MAX. LINE LENGTH	ft	10-82	10-82	10-98	25-164	25-164
MAX. HEIGHT DIFFERENCE	ft	33	49	49	98	98
DIMENSIONS & WEIGHT						
INDOOR UNIT						
W X H X D	in	22 1/2 x 8 1/2 x 22 1/2	22 1/2 x 8 1/2 x 22 1/2	33 x 14 1/2 x 33	33 x 14 1/2 x 33	33 x 16 1/2 x 33
NET WEIGHT	lbs	32	33	56	59.5	70.5
SHIPPING WEIGHT	lbs	38.5	39.7	73.9	79.5	90.4
INDOOR UNIT GRILLE** W X H X D	in	24-1/2 x 24-1/2 x 10	24-1/2 x 24-1/2 x 10	35-7/8 x 35-7/8 x 13 1/2	35-7/8 x 35-7/8 x 13 1/2	35-7/8 x 35-7/8 x 13 1/2
INDOOR UNIT GRILLE** NET WEIGHT	lbs	13.2	13.2	22.0	22.0	22.0
INDOOR GRILLE PART NUMBER		FPCG0912		FPCG182436		
OUTDOOR UNIT						
W X H X D	in	37 x 25 x 16 1/2	37 x 25 x 16 1/2	39 x 17 3/4 x 28 3/4	43 x 36 1/4 x 18 1/8	43 x 36 1/4 x 18 1/8
NET WEIGHT	lbs	75	75	108	155	192
SHIPPING WEIGHT	lbs	85	82	117	166	215
TOTAL NET WEIGHT	lbs	107	108	164	214.5	262.5
TOTAL SHIPPING WEIGHT	lbs	123.5	121	191	245.5	305.4

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.12 per kWh. For more information, visit www.ftc.gov/energy. *System meets ENERGY STAR® published minimums.

**Models require grille. Sold separately.

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

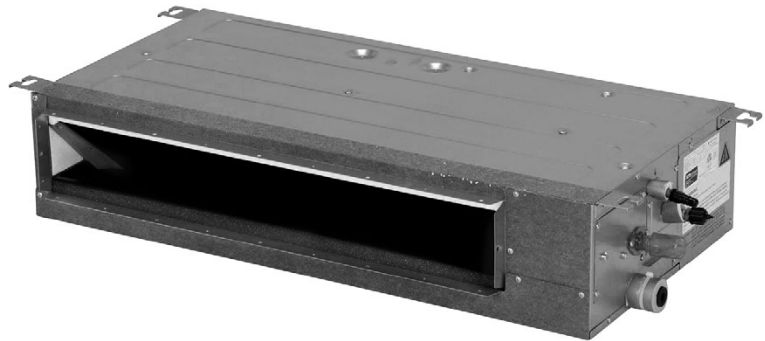


SINGLE ZONE • THE INSIDER® CONCEALED DUCTED HEAT PUMPS

Indoor unit is installed in the ceiling or furr down, totally concealed, for unobtrusive installation.

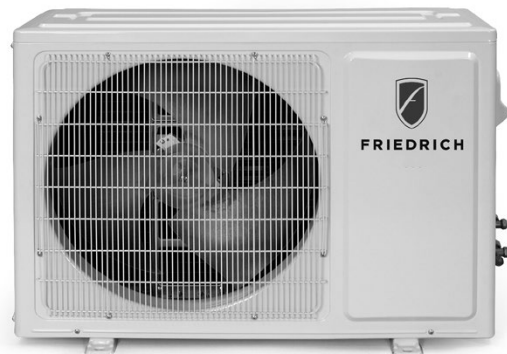
Features

- Precision Inverter® technology (variable speed compressor)
- Soft start compressor
- BLDC motor
- Cooling/Heating/Fan mode
- Dry mode
- 3 fan speeds
- Auto restart
- Auto changeover
- DiamonGold Advanced Corrosion Protection™
- Control lock function on controller
- External Static Pressure Range 0-.40



Operates in extreme conditions

- Built-in low ambient, down to 5°F on 9k/12k/18k models, down to -4°F on 24k/36k models (Cooling mode)
- Low ambient operation down to -4°F (Heating mode)



PRO SERIES SPECIFICATIONS

PERFORMANCE RATINGS		Single Zone - The Insider® Concealed Ducted Heat Pumps				
INDOOR MODEL	Friedrich Model Johnstone SKU	FPHFD09A3A B61-476	FPHFD12A3A B61-477	FPHFD18A3A B61-478	FPHFD24A3A B61-479	FPHSD36A3A B61-480
OUTDOOR MODEL	Friedrich Model Johnstone SKU	FPHFR09A3A B61-495	FPHFR12A3A B61-496	FPHFR18A3A B61-497	FPHFR24A3A B61-498	FPHFR36A3A B61-499
SPECIFICATIONS						
CAPACITY COOLING (RATED)	Btu	9000	12000	18000	24000	36000
CAPACITY COOLING (MIN-MAX)	Btu	4850-11600	5800-13100	8000-19200	8600-25200	12600-36800
CAPACITY HEATING @47°F (RATED)	Btu	9000	12000	18000	24000	36000
CAPACITY HEATING @17°F (RATED)	Btu	6200	8200	14700	19600	22000
CAPACITY HEATING (MIN-MAX)	Btu	4340-12280	6000-14400	7000-21200	7600-28400	15000-42600
SENSIBLE HEAT RATIO		76%	76%	76%	76%	76%
SEER		17	19	19	18	18
EER		12	11	12.2	12.5	10.9
COP (@47°F)		3.2	3.2	3.4	3.6	3
HSPF		10.00	10.00	10.00	10.00	9.50
ENERGY STAR		—	—	—	—	—
MOISTURE REMOVAL	Pts/h	2.0	3.0	5.0	5.1	7.61
AIRFLOW (LOW, MED, HIGH)	CFM	235/285/309	235/285/338	370/440/529	501/574/647	618/735/853
SOUND RATING - INDOOR H/M/L	dB(A)	29/27/26	36/33/30	38/35/33	38/36/34	49/43/39
SOUND RATING - OUTDOOR	dB(A)	52	54	68	54	61
OPERATING RANGE (COOLING)	°F	5-118	5-118	5-118	-4-118	-4-118
OPERATING RANGE (HEATING)	°F	-4-75	-4-75	-4-75	-4-75	-4-75
EST. YEARLY OPERATING COST	\$	53	72	124	169	376
ELECTRICAL DATA						
POWER SOURCE		230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
MINIMUM AMPACITY	A	23.0	23.0	23.0	23.0	4.6
COOLING WATTS	W	750	1091	1610	2200	3300
COOLING AMPS		3.7	4.8	7.0	8.6	14.4
HEATING AMPS		4.1	4.8	7.3	8.7	15.2
MAX. TD FUSE/BREAKER	A	20	30	30	30	50
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
REFRIGERATION SYSTEM						
REFRIGERANT		R410a	R410a	R410a	R410a	R410a
COMPRESSOR TYPE		Rotary	Rotary	Rotary	Rotary	Rotary
CONNECTIONS		Flare	Flare	Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4	1/4	3/8	3/8
SUCTION LINE O.D.	in	3/8	3/8	1/2	5/8	3/4
FACTORY PRECHARGE	ft	25	25	25	25	25
REFRIGERANT CHARGE	oz	33.5	45.9	56.5	75.3	111
MIN./MAX. LINE LENGTH	ft	10-82	10-82	10-98	25-164	25-164
MAX. HEIGHT DIFFERENCE	ft	33	49	49	98	98
DIMENSIONS & WEIGHT						
INDOOR UNIT						
W X H X D	in	35 7/8 x 7 1/2 x 17 5/8	35 7/8 x 7 1/2 x 17 5/8	48 7/16 x 7 1/2 x 17 5/8	39 x 10 5/8 x 30	55 x 13 3/4 x 33
NET WEIGHT	lbs	39.7	39.7	49.6	70.5	112.5
SHIPPING WEIGHT	lbs	46.3	47.4	56.2	81.6	132.4
OUTDOOR UNIT						
W X H X D	in	37 x 25 x 16 1/2	37 x 25 x 16 1/2	39 x 17 3/4 x 28 3/4	43 x 36 1/4 x 18 1/8	43 x 36 1/4 x 18 1/8
NET WEIGHT	lbs	75	75	108	155	192
SHIPPING WEIGHT	lbs	85	82	117	166	215
TOTAL NET WEIGHT	lbs	107	108	108	214.5	262.5
TOTAL SHIPPING WEIGHT	lbs	123.5	121	158	245.5	305.4

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.12 per kWh.

For more information, visit www.ftc.gov/energy.

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



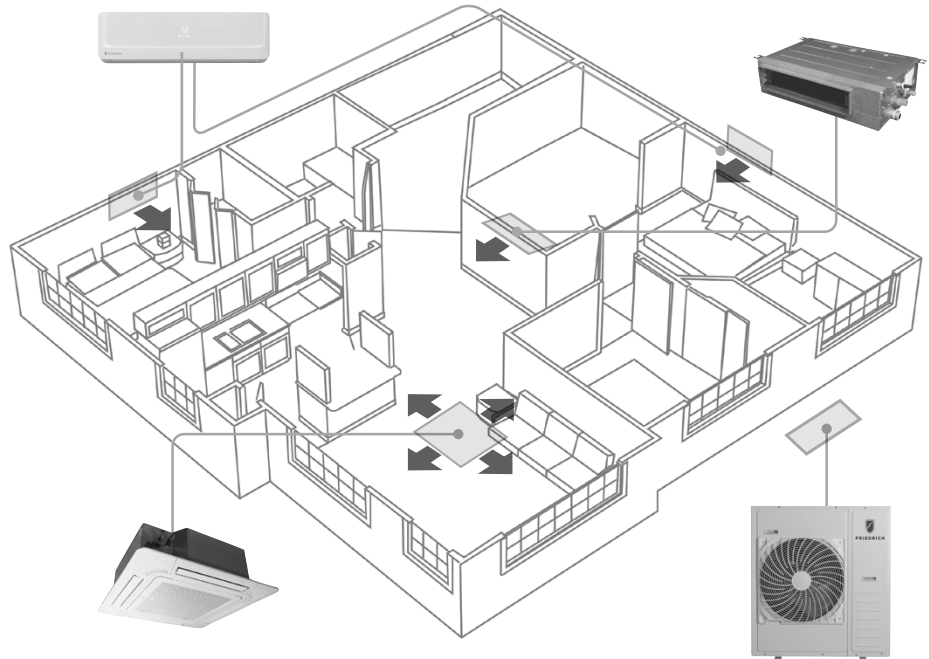
Friedrich multi zone systems utilize wall-mounted, ceiling cassette and concealed ducted models in up to 4 zones

MULTI ZONE SYSTEMS PROVIDE TOTAL INSTALLATION FLEXIBILITY.

Zone cooling and heating provides unmatched customized comfort and energy savings

Occupants have the ability to set the temperature of each zone to their preferred comfort level, or turn off units in unoccupied rooms without affecting other zones.

That's the beauty and efficiency of a Friedrich Ductless Multi Zone System.



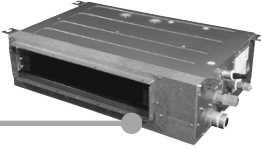



MULTI ZONE CONFIGURATION, AHRI RATINGS

Friedrich Model	AHRI Reference Number	IndoorType	System Capacity	EER	SEER	High Heat 47 °F	Low Heat 17°F
FPHMR18A3A B62-711	205150429	Non-ducted Indoor Units	18000	12.50	22.00	18000	12200
	205150428	Ducted Indoor Units	18000	11.50	19.00	18000	12200
	205150430	Mixed Ducted and Non-ducted Indoor Units	18000	12.00	20.50	18000	12200
FPHMR24A3A B61-493	204101246	Non-ducted Indoor Units	24000	12.50	22.00	24000	15400
	204005731	Ducted Indoor Units	24000	12.10	21.00	24000	15400
	203999079	Mixed Ducted and Non-ducted Indoor Units	24000	12.30	21.50	24000	15400
FPHMR36A3A B61-494	204101247	Non-ducted Indoor Units	32000	12.50	21.0	36000	23200
	203996910	Ducted Indoor Units	32000	12.00	19.50	36000	22600
	203999080	Mixed Ducted and Non-ducted Indoor Units	32000	12.25	20.25	36000	22600

MULTI ZONE CONFIGURATION GUIDELINES

Select a combination of indoor units that does not exceed the maximum connected capacity, and is within the recommended parameters:

CEILING CASSETTE		WALL-MOUNTED		THE INSIDER	
					
9,000 12,000	18,000 24,000	7,000 9,000 12,000	18,000 24,000	9,000 12,000	18,000 24,000
					
FPHMR18A3A B62-711 24,000 Btu MAX. CONNECTED CAPACITY DUAL-ZONE ONLY		FPHMR24A3A B61-493 33,000 Btu MAX. CONNECTED CAPACITY TRI-ZONE MAX.		FPHMR36A3A B61-494 48,000 Btu MAX. CONNECTED CAPACITY TRI-ZONE / FOUR ZONE ONLY	
FOR (2) ZONES: MINIMUM combination must be 50% of nameplate capacity Combinations SHOULD NOT: Exceed the maximum allowable total indoor unit connected capacity of 24,000 Btu.		FOR (2) ZONES: MINIMUM combination must be 50% of nameplate capacity FOR (3) ZONES: Select any combination of (3) indoor units. Combinations SHOULD NOT: Exceed the maximum allowable total indoor unit connected capacity of 33,000 Btu.		FOR (3) ZONES: Select any combination of (3) indoor units with no more than (2) 18,000 Btu indoor units plus (1) other indoor unit. FOR (4) ZONES: Select any combination of (4) indoor units. Combinations SHOULD NOT: Exceed the maximum allowable total indoor unit connected capacity of 48,000 Btu.	

WORKSHEET EXAMPLE

Johnstone SKU	MAX. CONDENSER CAPACITY	50% OF NAMEPLATE CAPACITY	ZONE 1 Unit Btu	ZONE 2 Unit Btu	ZONE 3 Unit Btu	ZONE 4 Unit Btu
B62-711	24,000	12,000			DUAL ZONE ONLY	
B61-493	33,000	17,500				TRI-ZONE MAX.
B61-494	48,000	24,000				



Pro Series

MULTI ZONE HEAT PUMP SYSTEMS

The contractor's line with extensive features to make installation and service faster and easier. Exceptional efficiency and dependable performance.



Wi-Fi available on select models for control anytime, anywhere

- Easy to use FriedrichGo™ app
- Control with smartphone
- Compatible with Amazon Alexa and Google Home



WIRELESS REMOTE WITH THE ABILITY TO CHANGE TO A COOL-ONLY REMOTE

Features for comfort and convenience

- Create customizable, 7-day schedules
- Precision Inverter® technology (variable speed compressor)
- Fast Pro® design for the fastest access for maintenance of any wall-mounted ductless system
- Soft start compressor
- BLDC motor
- Auto Clean indoor coil
- Cooling/Heating/Fan/Auto mode
- Surge Cool/Heat
- Natural air flow
- Ultra quiet operation
- Sleep mode
- Auto restart
- Auto changeover
- 24-hour on/off timer
- ENERGY STAR® qualified model
- Hidden display (only visible during operation)



FPHMR18A3A , FPHMR24A3A



FPHMR36A3A

Operates in extreme conditions


- Low ambient operation down to 14°F (Cooling mode)
- Low ambient operation down to -13°F (Heating mode)
- Low temperature compressor start-up protection



FastPro®



PRO SERIES SPECIFICATIONS

PERFORMANCE RATINGS		Multi Zone Wall-Mounted - Heat Pumps				
		7k	9k	12k	18k	24k
INDOOR MODEL	Friedrich Model Johnstone SKU	FPHMW07A3A B61-475	FPHFW09A3A B61-468	FPHFW12A3A B61-469	FPHFW18A3A B61-470	FPHFW24A3A B61-471
	 Wi-Fi Friedrich Model Johnstone SKU	FPHMW07A3B Wi-Fi B62-706 Wi-Fi	FPHFW09A3B Wi-Fi B62-699 Wi-Fi	FPHFW12A3B Wi-Fi B62-700 Wi-Fi	FPHFW18A3B Wi-Fi B62-701 Wi-Fi	FPHFW24A3B Wi-Fi B62-702 Wi-Fi
SPECIFICATIONS						
CAPACITY COOLING (RATED)	Btu	7000	9000	12000	18000	24000
CAPACITY HEATING (RATED)	Btu	8500	9500	13000	19000	24200
MOISTURE REMOVAL	Pts/h	2.5	2.5	3.2	4.2	5.3
AIRFLOW	CFM	424/382/323/247	424/382/323/247	424/382/323/247	618/565/482/382	735/665/559/441
SOUND RATING (HIGH/MED/LOW)	dB-A	38/32/29	38/32/29	39/32/29	45/41/37	48/45/40
ELECTRICAL DATA						
POWER SOURCE	V-Hz-Phase	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
REFRIGERATION SYSTEM						
CONNECTIONS		Flare	Flare	Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4	1/4	1/4	3/8
SUCTION LINE O.D.	in	3/8	3/8	3/8	1/2	5/8
DIMENSIONS & WEIGHT						
W x H x D	in	37 3/8" x 10 3/4" x 8 1/8"			48" x 12 5/8" x 9 1/4"	48" x 12 5/8" x 9 1/4"
NET WEIGHT	lbs	18.7	18.7	18.7	32	32
SHIPPING WEIGHT	lbs	24.3	24.3	24.3	37.5	37.5

PERFORMANCE RATINGS		Multi Outdoor		
		18k	24k	36k
OUTDOOR MODEL	Friedrich Model Johnstone SKU	FPHMR18A3A B62-711	FPHMR24A3A B61-494	FPHMR36A3A B61-494
SPECIFICATIONS				
POWER SOURCE		208-230/60/1	208-230/60/1	208-230/60/1
EST. YEARLY OPERATING COST	\$	\$90	\$172	\$259
RUNNING CURRENT COOLING RATED	A	6.5	8.7	11
RUNNING CURRENT HEATING RATED	A	7.3	8.7	13
POWER INPUT COOLING MIN. - RATED - MAX.	W	1440 [510-2610]	1920 [420-2640]	2520 [700-5000]
POWER INPUT HEATING MIN. - RATED - MAX.	W	1530 [450-3510]	1920 [420-4020]	3060 [600-6000]
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
DIMENSIONS W x H x D	in	33 7/8 x 26 3/8 x 12 1/4	37 3/8 x 33 x 13 3/8	37 3/8 x 41 3/8 x 13 3/8
NET WEIGHT	lbs	108	159	186
SHIPPING WEIGHT	lbs	119	170	216
REFRIGERATION SYSTEM				
REFRIGERANT		R410A	R410A	R410A
FACTORY PRECHARGE	oz	63	81.13	105.82
FACTORY PRECHARGE	ft.	49	74	98
LIQUID LINE O.D.	in	1/4	1/4	1/4
SUCTION LINE O.D.	in	3/8	3/8	3/8
MIN./MAX. LINE LENGTH (EACH)	ft	82	66	66
MIN./MAX. LINE LENGTH (TOTAL)	ft	164	197	197
MAX. HEIGHT DIFFERENCE	ft	49	49	49
SOUND PRESSURE LEVEL COOLING	A	55	59	59
SOUND PRESSURE LEVEL HEATING	A	55	59	59
OPERATING RANGE COOLING	°F DB	14~115	14~115	14~115
OPERATING RANGE HEATING	°F WB	-13~75	-13~75	-13~75
MINIMUM AMPACITY	A	21A	25A	32A
MAX. TD FUSE/BREAKER	A	30A	30A	50A

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.12 per kWh. For more information, visit www.ftc.gov/energy.

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



MULTI ZONE • CEILING CASSETTE HEAT PUMPS

Compact cassette units install in a drop ceiling and mount flush to the ceiling for a clean look and efficient installation.



Wi-Fi available on select models for control anytime, anywhere

- Easy to use FriedrichGo™ app
- Control with smartphone
- Compatible with Amazon Alexa and Google Home

Features for comfort and convenience

- Create customizable, 7-day schedules
- 24-hour on/off timer
- Precision Inverter® technology [variable speed compressor]
- Soft start compressor
- Natural air flow
- 4-way cooling
- Surge Cool/Heat
- Cooling/Heating/Fan mode
- Dry mode
- Sleep mode
- Independent vane control
- 3 fan speeds
- Ultra-quiet turbo fan
- Evaporator frost control
- Auto restart
- Auto changeover
- DiamonBlue Advanced Corrosion Protection®
- Clean, modern look
- Flexible installation
- ENERGY STAR® qualified models
- Precise air distribution

Operates in extreme conditions

- Built-in low ambient standard, down to 14°F (Cooling mode)
- Low ambient operation down to -13°F (Heating mode)
- Low temperature compressor start-up protection

NOTE: Cassette grilles are sold separately.




FPHMR18A3A , FPHMR24A3A



FPHMR36A3A



PRO SERIES SPECIFICATIONS

PERFORMANCE RATINGS		Multi Zone Cassette - Heat Pumps			
		9k	12k	18k	24k
INDOOR MODEL	Friedrich Model	FPHFC09A3A	FPHFC12A3A	FPHFC18A3A	FPHFC24A3A
	Johnstone SKU	B61-481	B61-482	B61-483	B61-484
	 Wi-Fi	Friedrich Model	FPHFC09A3B Wi-Fi	FPHFC12A3B Wi-Fi	FPHFC18A3B Wi-Fi
		Johnstone SKU	B62-707 Wi-Fi	B62-708 Wi-Fi	B62-709 Wi-Fi
SPECIFICATIONS					
CAPACITY COOLING (RATED)	Btu	9000	12000	18000	24000
CAPACITY HEATING (RATED)	Btu	10200	13500	20400	27000
MOISTURE REMOVAL	Pts/h	1.9	2.5	3.2	5.0
AIRFLOW (HIGH)	CFM	306	471	559	1100
SOUND RATING (MAX.-MIN.)	dB-A	40/28	40/28	40/28	40/28
ELECTRICAL DATA					
POWER SOURCE	V-Hz-Phase	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
REFRIGERATION SYSTEM					
CONNECTIONS		Flare	Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4	1/4	3/8
SUCTION LINE O.D.	in	3/8	3/8	1/2	5/8
DIMENSIONS & WEIGHT					
W X H X D	in	22 1/2 x 8 1/2 x 22		33 x 9 3/4 x 33	
NET WEIGHT	lbs	31.9	34	61.8	59.5
SHIPPING WEIGHT	lbs	38.5	40.7	81.6	79.5
PACKAGE DIMENSIONS W X H X D	in	28 3/4 x 11 1/2 x 26		39 1/4 x 37 x 14	

PERFORMANCE RATINGS		Multi Outdoor		
		18k	24k	36k
OUTDOOR MODEL	Friedrich Model	FPHMR18A3A	FPHMR24A3A	FPHMR36A3A
	Johnstone SKU	B62-711	B61-494	B61-494
SPECIFICATIONS				
POWER SOURCE		208-230/60/1	208-230/60/1	208-230/60/1
EST. YEARLY OPERATING COST	\$	\$90	\$172	\$259
RUNNING CURRENT COOLING RATED	A	6.5	8.7	11
RUNNING CURRENT HEATING RATED	A	7.3	8.7	13
POWER INPUT COOLING MIN. - RATED - MAX.	W	1440 [510-2610]	1920 [420-2640]	2520 [700-5000]
POWER INPUT HEATING MIN. - RATED - MAX.	W	1530 [450-3510]	1920 [420-4020]	3060 [600-6000]
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
DIMENSIONS W x H x D	in	33 7/8 x 26 3/8 x 12 1/4	37 3/8 x 33 x 13 3/8	37 3/8 x 41 3/8 x 13 3/8
NET WEIGHT	lbs	108	159	186
SHIPPING WEIGHT	lbs	119	170	216
REFRIGERATION SYSTEM				
REFRIGERANT		R410A	R410A	R410A
FACTORY PRECHARGE	oz	63	81.13	105.82
FACTORY PRECHARGE	ft.	49	74	98
LIQUID LINE O.D.	in	1/4	1/4	1/4
SUCTION LINE O.D.	in	3/8	3/8	3/8
MIN./MAX. LINE LENGTH (EACH)	ft	82	66	66
MIN./MAX. LINE LENGTH (TOTAL)	ft	164	197	197
MAX. HEIGHT DIFFERENCE	ft	49	49	49
SOUND PRESSURE LEVEL COOLING	A	55	59	59
SOUND PRESSURE LEVEL HEATING	A	55	59	59
OPERATING RANGE COOLING	°F DB	14~115	14~115	14~115
OPERATING RANGE HEATING	°F WB	-13~75	-13~75	-13~75
MINIMUM AMPACITY	A	21A	25A	32A
MAX. TD FUSE/BREAKER	A	30A	30A	50A

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.12 per kWh. For more information, visit www.ftc.gov/energy.

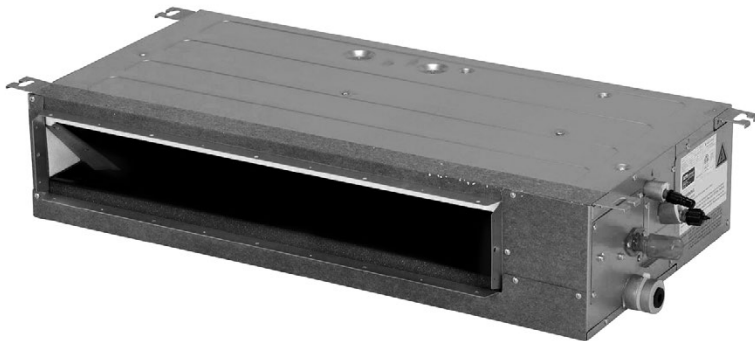
Models require grille. Sold separately.

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



MULTI ZONE • THE INSIDER® CONCEALED DUCTED HEAT PUMPS

Indoor unit installs in the ceiling or furr down for unobtrusive installation. Conditioned or non-conditioned air can be added to ducting to allow fresh air into the conditioned space whenever required.



Features

- Precision Inverter® technology (variable speed compressor)
- Soft start compressor
- BLDC motor
- Cooling/Heating/Fan mode
- Dry mode
- 3 fan speeds
- Auto restart
- Auto changeover
- DiamonBlue Advanced Corrosion Protection®
- Control lock function on controller
- External Static Pressure Range (ESP)
 - 9K/12K/18K (0 – .40) WC
 - 24K (0 – .40) WC

Operates in extreme conditions

- Built-in low ambient standard, down to 14°F (Cooling mode)
- Low ambient operation down to -13°F (Heating mode)
- Low temperature compressor start-up protection



FPHMR18A3A , FPHMR24A3A



FPHMR36A3A

PRO SERIES SPECIFICATIONS

PERFORMANCE RATINGS		Multi Zone - The Insider® Concealed Ducted Heat Pumps			
		9k	12k	18k	24k
INDOOR MODEL	Friedrich Model Johnstone SKU	FPHFD09A3A B61-476	FPHFD12A3A B61-477	FPHFD18A3A B61-478	FPHFD24A3A B61-479
SPECIFICATIONS					
CAPACITY COOLING (RATED)	Btu	9000	12000	18000	24000
CAPACITY HEATING (RATED)	Btu	9000	12000	18000	24000
MOISTURE REMOVAL	Pts/h	2.0	3.0	5.0	5.1
AIRFLOW	CFM	235/285/309	235/285/338	370/440/529	501/574/647
SOUND RATING (MAX.-MIN.)	dB-A	29/27/26	36/33/30	38/35/33	38/36/34
ELECTRICAL DATA					
POWER SOURCE	V-Hz-Phase	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
REFRIGERATION SYSTEM					
CONNECTIONS		Flare	Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4	1/4	3/8
SUCTION LINE O.D.	in	3/8	3/8	1/2	5/8
DIMENSIONS & WEIGHT					
W X H X D	in	35 7/8 x 7 1/2 x 17 5/8		48 7/16 x 7 1/2 x 17 5/8	39 x 10 5/8 x 30
NET WEIGHT	lbs	39.7	39.7	49.6	70.5
SHIPPING WEIGHT	lbs	46.3	47.4	56.2	81.6

PERFORMANCE RATINGS		Multi Outdoor		
		18k	24k	36k
OUTDOOR MODEL	Friedrich Model Johnstone SKU	FPHMR18A3A B62-711	FPHMR24A3A B61-494	FPHMR36A3A B61-494
SPECIFICATIONS				
POWER SOURCE		208-230/60/1	208-230/60/1	208-230/60/1
EST. YEARLY OPERATING COST	\$	\$90	\$172	\$259
RUNNING CURRENT COOLING RATED	A	6.5	8.7	11
RUNNING CURRENT HEATING RATED	A	7.3	8.7	13
POWER INPUT COOLING MIN. - RATED - MAX.	W	1440 [510-2610]	1920 [420-2640]	2520 [700-5000]
POWER INPUT HEATING MIN. - RATED - MAX.	W	1530 [450-3510]	1920 [420-4020]	3060 [600-6000]
POWER AND COMMUNICATION CABLE	No. x AWG	4 x 14AWG	4 x 14AWG	4 x 14AWG
DIMENSIONS W x H x D	in	33 7/8 x 26 3/8 x 12 1/4	37 3/8 x 33 x 13 3/8	37 3/8 x 41 3/8 x 13 3/8
NET WEIGHT	lbs	108	159	186
SHIPPING WEIGHT	lbs	119	170	216
REFRIGERATION SYSTEM				
REFRIGERANT		R410A	R410A	R410A
FACTORY PRECHARGE	oz	63	81.13	105.82
FACTORY PRECHARGE	ft.	49	74	98
LIQUID LINE O.D.	in	1/4	1/4	1/4
SUCTION LINE O.D.	in	3/8	3/8	3/8
MIN./MAX. LINE LENGTH (EACH)	ft	82	66	66
MIN./MAX. LINE LENGTH (TOTAL)	ft	164	197	197
MAX. HEIGHT DIFFERENCE	ft	49	49	49
SOUND PRESSURE LEVEL COOLING	A	55	59	59
SOUND PRESSURE LEVEL HEATING	A	55	59	59
OPERATING RANGE COOLING	°F DB	14-115	14-115	14-115
OPERATING RANGE HEATING	°F WB	-13-75	-13-75	-13-75
MINIMUM AMPACITY	A	21A	25A	32A
MAX. TD FUSE/BREAKER	A	30A	30A	50A

Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.12 per kWh. For more information, visit www.ftc.gov/energy.

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Select Series

SINGLE ZONE • WALL-MOUNTED HEAT PUMPS

Excellent efficiency and outstanding quality make Select a truly exceptional value line



115 VOLT MODELS
FSHSW09A1A, FSHSW12A1A



230/208 VOLT MODELS

FSHSW18A3A, FSHSW24A3A



FSHSW36A3A



WIRELESS
REMOTE CONTROL

Features

- Inverter technology is more energy efficient and can self-adjust capacity to match cooling needs
- Multiple operating modes including: auto, cool, dry, fan only and heat
- TURBO mode operates the unit at maximum performance to quickly bring the room to set temperature
- 4 fan speeds heating or cooling: high, medium, low, "quiet", plus auto-fan
- Continuous 'Air Sweep' up & down
- LCD remote
- 24-hour timer and sleep timer
- Indoor unit will briefly display set or room temperature
- Auto-restart after power interruptions
- Auto-shut flaps close when unit is off for a sleek appearance
- Washable antimicrobial air filters
- 115V/230V models will provide cooling in outdoor temperatures down to 0°F



OPTIONAL ACCESSORY FOR FLOATING AIR® SELECT MODELS

DFACC

LCD remote for cooling only operation of all Floating Air Select heat pump models.



SELECT SERIES SPECIFICATIONS

PERFORMANCE RATINGS		115 volt models		230/208 volt models		
INDOOR MODEL	Friedrich Model	FSHSW09A1A	FSHSW12A1A	FSHSW18A3A	FSHSW24A3A	FSHSW36A3A
	Johnstone SKU	B61-504	B61-506	B61-508	B61-510	B61-512
OUTDOOR MODEL	Friedrich Model	FSHSR09A1A	FSHSR12A1A	FSHSR18A3A	FSHSR24A3A	FSHSR36A3A
	Johnstone SKU	B61-505	B61-507	B61-509	B61-511	B61-513
SPECIFICATIONS						
CAPACITY COOLING (RATED)	Btu	9000	12000	18000	24000	36000
CAPACITY COOLING MIN - MAX	Btu	3753-9724	3753-12500	3412-20472	8600-24000	7404-35997
CAPACITY HEATING (RATED) @ 47°F	Btu	9500	13000	19800	24000	34600
CAPACITY HEATING (RATED) @ 17°F	Btu	6800	7100	12800	14600	20200
CAPACITY HEATING MIN - MAX	Btu	2081-12283	3412-05013	3412-21837	8600-26000	14979-35997
SENSIBLE HEAT RATIO		0.79	0.73	0.77	0.77	0.75
HSPF		9.0	9.0	9.0	10.0	9.0
SEER		18.0	18.0	18.0	18.0	18.0
EER		10.0	10.1	9.89	11.0	8.2
MOISTURE REMOVAL	Pts/h	1.69	2.96	3.8	4.23	7.4
AIRFLOW (HIGH/MED/LOW/QUIET)	CFM	318/288/241/171	400/318/241/194	500/441/383/294	588/441/306/206	883/765/647/559
SOUND RATING - INDOOR (HIGH/MED/LOW/QUIET)	dB-A	43/38/34/28	43/39/35/29	47/44/41/35	49/46/42/36	54/49/44/37
SOUND RATING - OUTDOOR	dB-A	52	53	57	58	65
OPERATING RANGE (HEATING)	°F	-4-75	-4-75	-13-75	-13-75	-4-75
OPERATING RANGE (COOLING)	°F	0-115	0-115	0-115	0-115	0-115
EST. YEARLY OPERATING COST	U.S. \$	\$67	\$113	\$146	\$198	\$368
ELECTRICAL DATA						
POWER SOURCE	V-Hz-Phase	115-60-1	115-60-1	230/208-60-1	230/208-60-1	230/208-60-1
MIN. AMPACITY	A	17	20	16	16	24
COOLING WATTS	W	900	194	1820	2010	4100
COOLING AMPS	A	10.87	13.0	8.1	17.0	10.87
HEATING WATTS	W	870	1250	2090	2130	3800
HEATING AMPS	A	10.36	13.5	8.5	9.45	16.5
MAX. TD FUSE/BREAKER	A	25	30	25	25	40
REFRIGERATION SYSTEM						
REFRIGERANT		R410A	R410A	R410A	R410A	R410A
COMPRESSOR TYPE		Inverter	Inverter	Inverter	Inverter	Inverter
CONNECTIONS		Flare	Flare	Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4"	1/4"	1/4"	1/4"	1/4"
SUCTION LINE O.D.	in	3/8"	3/8"	1/2"	5/8"	5/8"
REFRIGERANT CHARGE	oz.	24.7	31.8	45.68	56.4	91.71
FACTORY PRECHARGE	ft	25	25	25	25	25
MIN. / MAX. LINE LENGTH	ft	7/66	7/98	10/82	10/82	15/98
MAX. HEIGHT DIFFERENCE	ft	32.8	49.2	65.0	65.6	32.8
DIMENSIONS & WEIGHT						
INDOOR UNIT						
W x H x D	in	31 1/8 x 10 7/8 x 8	31 1/8 x 11 3/8 x 8	33 1/4 x 11 7/8 x 9	42 1/2 x 12 7/8 x 10	53 1/8 x 12 7/8 x 10
NET WEIGHT	lbs	20.9	23.2	30.9	37.5	42.0
SHIPPING WEIGHT	lbs	25.4	27.6	37.5	45.2	51.8
OUTDOOR UNIT						
W x H x D	in	33 1/2 x 21 1/4 x 12 5/8		37 5/8 x 27 5/8 x 15 5/8		38 5/8 x 31 1/8 x 16 7/8
NET WEIGHT	lbs	62.8	67.3	97.0	103.6	161
SHIPPING WEIGHT	lbs	68.4	72.8	106.9	113.5	171.9
TOTAL NET WEIGHT	lbs	83.7	90.5	127.9	141.1	203
TOTAL SHIPPING WEIGHT	lbs	93.8	100.4	144.4	158.7	223.7

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



DUCTLESS ACCESSORIES

REFRIGERATION LINE SETS (REQUIRED) OUTSIDE DIMENSIONS

Floating Air® Pro Wall-mounted				
SYSTEM MODEL	Liquid	Suction	15' Lineset Kit	35' Lineset Kit
FPHW091 / FPHW091A	1/4	3/8	T32150	T32350
FPHW121 / FPHW121A	1/4	3/8	T32150	T32350
FPHW093 / FPHW093A	1/4	3/8	T32150	T32350
FPHW123 / FPHW123A	1/4	3/8	T32150	T32350
FPHW183 / FPHW183A	1/4	1/2	T42150	T42350
FPHW243 / FPHW243A	3/8	5/8	T53150	T53350
FPHW363 / FPHW363A	3/8	3/4	T63150	T63350
Floating Air® Pro Multi Zone Outdoor				
FPHMR18A3A	1/4	3/8	T32150	T32350
FPHMR24A3A	1/4	3/8	T32150	T32350
FPHMR36A3A	1/4	3/8	T32150	T32350
Floating Air® Premier Wall-mounted				
FRHW093 / FRHW093A	1/4	3/8	T32150	T32350
FRHW123 / FRHW123A	1/4	3/8	T32150	T32350
Floating Air® Select Wall-mounted				
FSHW091	1/4	3/8	T32150	T32350
FSHW121	1/4	3/8	T32150	T32350
FSHW183	1/4	1/2	T42150	T42350
FSHW243	1/4	5/8	T52150	T52350
FSHW363	1/4	5/8	T52150	T52350
Floating Air® Pro Cassette Single Zone				
FPHC093 / FPHC093A	1/4	3/8	T32150	T32350
FPHC123 / FPHC123A	1/4	3/8	T32150	T32350
FPHC183 / FPHC183A	1/4	1/2	T42150	T42350
FPHC243 / FPHC243A	3/8	5/8	T53150	T53350
FPHC363A	3/8	3/4	T63150	T63350
Floating Air® Pro The Insider® Single Zone Concealed Ducted				
FPHD093	1/4	3/8	T32150	T32350
FPHD123	1/4	3/8	T32150	T32350
FPHD183	1/4	1/2	T42150	T42350
FPHD243	3/8	5/8	T53150	T53350
FPHD363	3/8	3/4	T63150	T63350

REFRIGERATION LINE SETS MIN./MAX. LENGTHS

Floating Air® Pro Wall-mounted		
SYSTEM MODEL	Min. (ft.)	Max. Each/Total (ft.)
FPHW091 / FPHW091A	10	50
FPHW121 / FPHW121A	10	50
FPHW093 / FPHW093A	10	50
FPHW123 / FPHW123A	10	50
FPHW183 / FPHW183A	10	66
FPHW243 / FPHW243A	10	66
FPHW363 / FPHW363A	10	66
Floating Air® Pro Ceiling Cassette		
FPHC093 / FPHC093A	25	82
FPHC123 / FPHC123A	25	82
FPHC183 / FPHC183A	25	82
FPHC243 / FPHC243A	25	164
FPHC363A	25	164
Floating Air® Pro The Insider® Concealed Ducted		
FPHD093	25	82
FPHD123	25	82
FPHD183	25	82
FPHD243	25	164
FPHD363	25	164
Floating Air® Pro Outdoor		
FPHMR18A3A	25	82/164
FPHMR24A3A	25	66/197
FPHMR36A3A	25	66/246
Floating Air® Premier		
FRHW093 / FRHW093A	10	66
FRHW123 / FRHW123A	10	66
Floating Air® Select		
FSHW091	10	66
FSHW121	10	66
FSHW183	10	82
FSHW243	10	82
FSHW363	15	98

CEILING CASSETTE GRILLES (REQUIRED)

Decorative Grille	
FPCG0912	FPCG182436
Fits FPHFC09A3A (B) FPHFC12A3A (B)	Fits FPHFC18A3A (B) FPHFC24A3A (B) FPHFC36A3B

WALL CONTROLLERS (OPTIONAL)



FPWC1



FSWC1

TORQUE WRENCH SETTINGS

Outside Diameter		Torque	
mm	inch	ft.-lbs.	N-m
6.35	1/4	13 – 18	17.6 – 24.5
9.52	3/8	25 – 30	33.3 – 41.2
12.7	1/2	40 – 47	53.9 – 64.7
15.88	5/8	45 – 59	61.7 – 80.4

FPWC1 Optional wired wall controller for Floating Air® Pro single zone and Premier, single and multi zone models.

Does not work with FPHSW36A3A / FPHSW36A3B at this time. Please check with your Friedrich representative for options.

FSWC1 Optional wired wall controller for Floating Air® Select single zone models.

Many Friedrich ductless models qualify for rebates

Many utility companies offer rebates on ductless air conditioners. Contact your local energy provider for information on ductless rebates or visit: <http://www.dsireusa.org>

Find a factory trained Friedrich ductless installer at www.friedrich.com

ZoneAire® Select

Reliable performance and low sound begins with durable materials and the highest quality components

Durable Construction

Superior materials and design reduce sound levels and improve overall guest satisfaction

Aluminum endplates reduce corrosion of the outdoor coil.

Galvanized zinc coated steel wall sleeve and steel base pan undergo an 11-step preparation process, are powder coated with a polyester finish, and are oven-cured at high temperature for exceptional durability.

Factory run-tested units reduce problems in the field.

Internal diagnostic program can alert maintenance to component failures or operating problems.

Easy access anti-microbial filters simplify maintenance and extend the life of the product.

Room freeze protection initiates heat if the temperature falls to 50°F inside an unoccupied guest room.

Random compressor restart protects electrical systems from overload when power is restored.

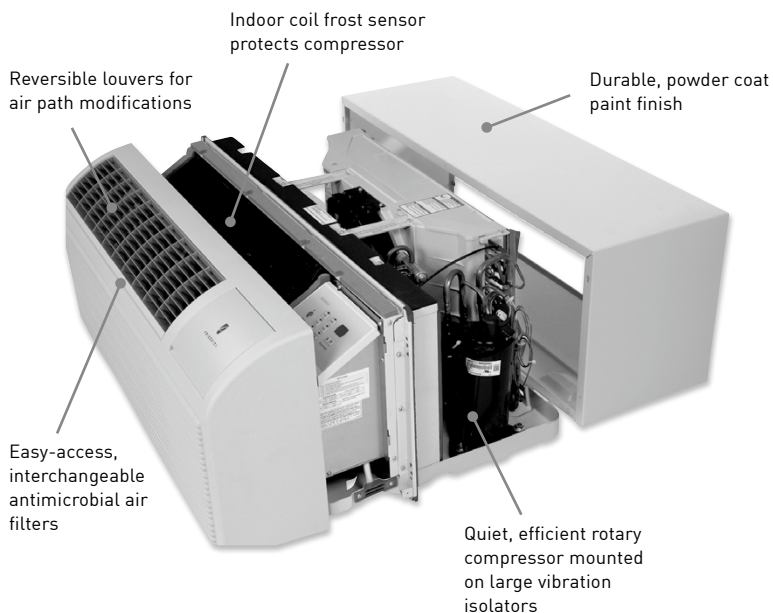
Tamper-resistant, anodized stamped aluminum grille withstands chalking and oxidation.

Break proof control door design maintains the integrity of the unit.

Indoor coil frost sensor protects the compressor to lengthen the life of the unit.

DiamonBlue Advanced Corrosion Protection® comes standard on all PTACs for long life in harsh coastal environments.

Friedrich PTACs utilize a modular design that provides easy access to key components for maintenance or service

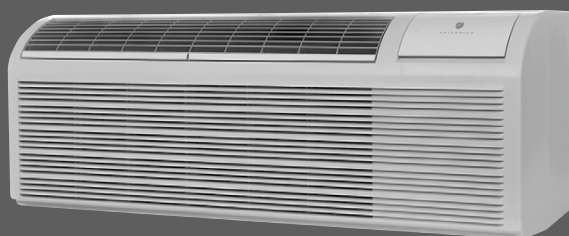


IMPORTANT NOTE:

Sleeves are sold and shipped separately to accommodate new construction and replacement requirements.

Fits standard PTAC sleeves without the added expense of a baffle kit.

*Excellent Efficiency
and Outstanding
Quality*



ZONEAIRE® SELECT FEATURES

Energy Efficient & Energy Smart

Super-efficient refrigeration design with EERs up to 12.0 and COP up to 3.55.

Exceptional FriedrichLink® energy management thermostats available (wired & wireless) with integrated occupancy sensor, five distinct energy presets and comprehensive remote management capability.*

Energy efficient heat pump models available in our complete line.

Electronic defrost control ensures more run time in efficient heat pump mode.

Electronic temperature limiting to adjust low/high temperature range limits for reduced energy usage.

Slinger ring technology in condensate removal system cools the coil and increases efficiency.

Central desk control ready to allow hotel owners to control units from a central location.

Comfort, Health & IAQ

Dehumidification removes up to 3.0 pints/hour of moisture in cool mode to improve comfort and reduce the chance of mold and mildew growth.

Fresh air damper brings in fresh outside air when desired.

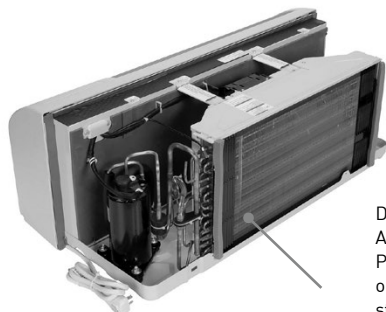
Intuitive unit controls are user friendly with easy-to-read LED display that can show either set-point or actual room temperature as selected by owner.

Anti-microbial air filters are easy to access and washable.

Instant Heat heat pump mode quickly heats a room to the desired temperature for increased comfort.

Automatic periodic sampling of room temperature every nine minutes to ensure desired conditions are maintained.

Reversible indoor air louvers to easily change direction of airflow.



Diamonblue Advanced Corrosion Protection® on the outdoor coils is standard for added protection against rust in coastal areas



Ease of Maintenance & Installation

Modular product design ensures easy access to key components for cleaning and repairs, including washable, lift-out air filters.

Remote thermostat pop-out wiring module allows easier wiring and unit change out without rewiring thermostat.

Surehold Front Cover System® securely attaches the front each time..

May be installed flush with the floor.

Sound Reduction Features

Two permanently lubricated fan motors for added durability and reduced sound levels indoors.

Quiet, efficient rotary compressor mounted with vibration isolators to keep the compressor running smoothly and quietly.

High-density insulation and steel inner wall block outdoor noise

Tangential blower wheel creates a wide path air flow that reaches the furthest corner of the guest room more quietly than conventional fans.

Warranty and Service

2 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.

CAPACITY RANGE

Electric Heat

COOLING

6800-14500 Btu
Up to 12.0 EER

Heat Pump

COOLING

6800-14500 Btu
Up to 12.0 EER

REVERSE HEAT

6300-13600 Btu
Up to 3.55 COP



Large tangential fan provides optimum airflow

Receptacles and Fuse Types			
Voltage	230V		265V
Amps	20	30	20
Heater Size	3.6 kW	5.0 kW	3.6 kW
Receptacles			
NEMA# Receptacle	6-20R	6-30R	7-20R
NEMA# Plug	6-20P	6-30P	7-20P

ZONEAIRE® SELECT SPECIFICATIONS

PZE Series with Electric Heat

Friedrich Model	PZE07K3SB	PZE09K3SB	PZE09R3SB	PZE12K3SB	PZE12R3SB	PZE15K5SB
Johnstone SKU	B60-460	B60-461	B60-462	B60-463	B60-464	B60-465
PERFORMANCE DATA:						
Cooling Btu	7200/6800	9600/9400	9200	12000/11800	12000	14500/14300
Cooling Watts	600/565	815/800	800	1050/1035	1130	1420/1400
Energy Efficient Ratio, EER	12.0	11.8/11.8	11.5	11.4/11.4	10.6	10.2/10.2
Heater Size (kW)	3.6	3.6	3.6	3.6	3.6	5.0
Moisture Removal (pints/hr.)	0.7	1.2	1.6	2.1	3.2	3.0
Sensible Heat Ratio	0.87	0.82	0.82	0.77	0.72	0.72
ELECTRICAL DATA:						
Voltage(1 PHASE, 60 Hz)	230/208	230/208	265	230/208	265	230/208
Volt Range	253-187	253-187	292-239	253-187	292-239	253-187
Current (Amps)	2.6/2.7	3.5/3.8	4.2	4.5/5.0	5.92	6.2/6.7
Power Factor	0.99	0.99	0.99	0.96	0.99	0.99
Compressor LRA	13.0	20.0	18.2	28.5	25.9	34.5
Compressor RLA	2.5	3.3	3.0	5.3	4.3	6.4
Outdoor Fan Motor, HP	0.07	0.07	0.1	0.07	0.1	0.09
AIRFLOW DATA:						
Indoor CFM, HIGH	335	400	400	470	470	470
Indoor CFM, LOW	250	250	290	360	360	360
Vent CFM	75	75	75	75	75	75
PHYSICAL DATA:						
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" [ALL MODELS]					
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" [ALL MODELS]					
Cut Out Dimensions (H x W x D)	16 1/4" x 42 1/4" [ALL MODELS]					
Net Weight (lbs.)	104	108	113	113	115	115
Shipping Weight (lbs.)	126	130	136	135	137	137
R-410A Charge (oz.)	30.0	32.1	31.4	30.7	30.0	34.2
Dimensions with Packaging (inches)	19" 3/4 x 43 1/2" x 23" [ALL MODELS]					

PZH Series Heat Pump

Friedrich Model	PZH07K3SB	PZH09K3SB	PZH09R3SB	PZH12K3SB	PZH12R3SB	PZH15K5SB
Johnstone SKU	B60-466	B60-467	B60-468	B60-469	B60-470	B60-471
PERFORMANCE DATA:						
Cooling Btu	7200/6800	9600/9400	9200	12000/11800	12000	14500/14300
Cooling Watts	600/565	815/800	800	1050/1035	1130	1420/1400
Energy Efficient Ratio, EER	12.0/12.0	11.8/11.8	11.5	11.4/11.4	10.6	10.2/10.2
Reverse Heating Btu	6400/6300	8500/8200	8500	11000/10800	11400	13600/13200
Heating Watts	530/520	710/685	710	930/920	1000	1180/1150
COP	3.55/3.54	3.51/3.51	3.51	3.47/3.44	3.34	3.38/3.36
Moisture Removal (pints/hr.)	0.7	1.2	1.6	2.1	3.2	3.0
Sensible Heat Ratio	0.87	0.82	0.82	0.77	0.72	0.72
ELECTRICAL DATA:						
Voltage(1 PHASE, 60 Hz)	230/208	230/208	265	230/208	265	230/208
Volt Range	253-187	253-187	292-239	253-187	292-239	253-187
Current (Amps)	2.6/2.7	3.5/3.8	4.2	4.5/5.0	5.9	6.2/6.7
Reverse Heat. Amps	2.3/2.5	3.0/3.3	2.7	4.0/4.4	3.8	5.1/5.5
Power Factor	0.99	0.99	0.99	0.96	0.99	0.99
Compressor LRA	13.0	20.0	18.2	28.5	25.9	34.5
Compressor RLA	2.5	3.3	3.1	5.3	4.3	6.4
Outdoor Fan Motor, HP	0.07	0.07	0.1	0.07	0.1	0.09
AIRFLOW DATA:						
Indoor CFM, HIGH	335	400	400	470	470	470
Indoor CFM, LOW	250	250	290	360	360	360
Vent CFM	75	75	75	75	75	75
PHYSICAL DATA:						
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" [ALL MODELS]					
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" [ALL MODELS]					
Cut Out Dimensions (H x W x D)	16 1/4" x 42 1/4" [ALL MODELS]					
Net Weight (lbs.)	105	109	113	114	115	116
Shipping Weight (lbs.)	127	131	136	136	137	139
R-410A Charge (oz.)	30.0	32.1	31.4	30.7	30.0	34.2
Dimensions with Packaging (inches)	19" 3/4 x 43 1/2" x 23" [ALL MODELS]					

Operating range 0°-115°F.

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

Five-year warranty limited to installations in the United States, Puerto Rico, Mexico and Canada only.

See warranty documentation for full details.



PACKAGED TERMINAL AIR CONDITIONERS

ZoneAire® Premier

Improved performance and design enhancements combine to deliver our most efficient and reliable standard PTAC

Advanced design for greater energy efficiency

- **EERs** up to 13.0 reduces operating costs versus lower efficiency models
- **Curved coil design** of the Premier Series maximizes the internal surface area to deliver higher efficiencies

Dependable performance begins with the highest quality materials and components

- **Stainless steel** endplates on the coils for better corrosion resistance
- **Galvanized, zinc-coated steel** wall sleeves brought together with durable construction and rigorous testing

Engineered for maximum guest comfort

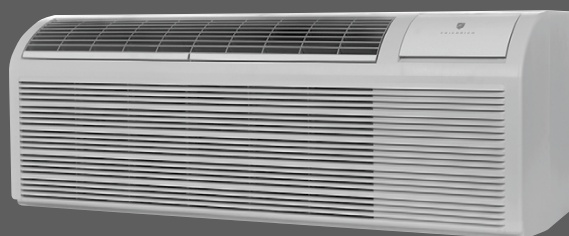
- **Tangential fan** provides quiet, yet powerful airflow that quickly reaches all corners of the room
- **Two motor design** for quieter indoor sound levels
- **Thick insulation** on the inner walls reduce sound transfer into the room
- **Constant Fan** mode produces a steady stream of white noise in both cooling and heating modes that masks sound level changes when the compressor cycles on and off, and also masks outdoor noise.



Friedrich reliability is backed by an industry-leading 2-year parts and labor and 5-year limited warranty.

See warranty documentation for full details.

*The Quietest PTAC
You Can Buy**



* Independent 3rd party indoor testing against leading competitive brands.

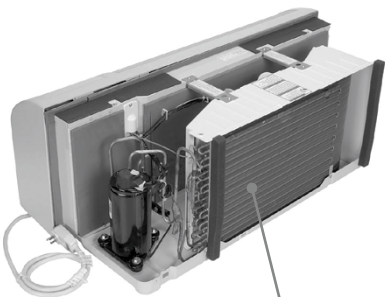
ZONEAIRE® PREMIER PTAC

Designed to deliver quiet, energy-efficient operation and dependable performance backed by an exceptional warranty

ZoneAire Premier features advanced coil design to deliver exceptional energy efficiency

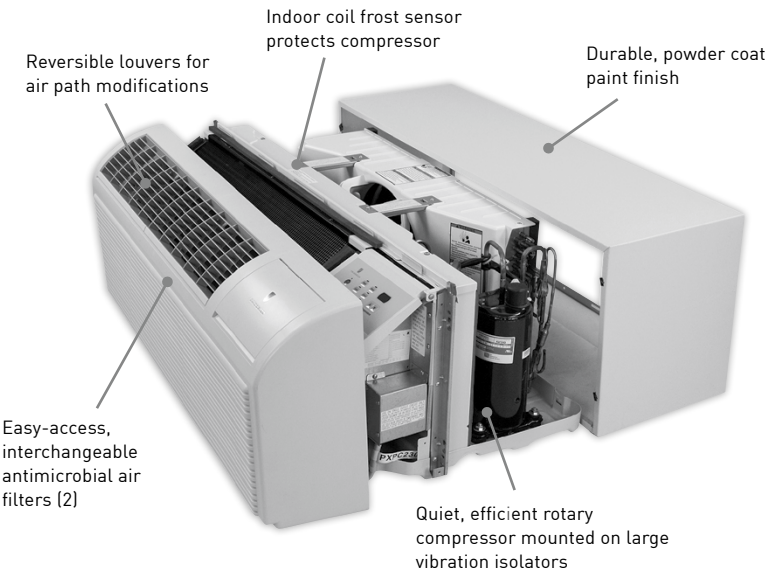
The curved coil design of the Premier Series maximizes the internal surface area to deliver higher efficiencies

Key components can be easily accessed by your maintenance team so units can be removed, serviced and placed back in service faster.



Outdoor curved coil is coated with Diamonblue Advanced Corrosion Protection®

Friedrich PTACs utilize a modular design that provides easy access to key components for maintenance or service



Easy to read and use digital controls



Large tangential fan provides smooth, powerful airflow

CAPACITY RANGE

Electric Heat

COOLING

7000-15000 Btu
EERs up to 13.0

ELECTRIC HEAT

8300-17000 Btu
EERs up to 13.0

Heat Pump

COOLING

7000-15000 Btu
EERs up to 13.0

REVERSE HEATING

6000-13300 Btu
Up to 3.6 COP

AUXILIARY ELECTRIC HEAT

8300-17000 Btu

Receptacles and Fuse Types						
Voltage	230V			265V		
Amps	15	20	30	15	20	30
Heater Size	2.5 kW	3.5 kW	5.0 kW	2.5 kW	3.5 kW	5.0 kW
Receptacles						
NEMA# Receptacle	6-15R	6-20R	6-30R	7-15R	7-20R	7-30R
NEMA# Plug	6-15P	6-20P	6-30P	7-15P	7-20P	7-30P

ZONEAIRE® PREMIER FEATURES

Durable & Reliable Construction

Stainless steel endplates reduce outdoor coil corrosion.

Galvanized zinc coated steel wall sleeve and steel base pan undergo an 11-step preparation process, are powder coated with a polyester finish and cured in an oven for exceptional durability.

Additional heating element bottom plate above an improved heat shield provides extra thermal protection.

Additional thermistor on the blower scroll outlet regulates internal temperature.

Factory run-tested units reduce problems in the field.

Internal diagnostic program can alert maintenance to component failures or operating problems. Fourteen numeric service error codes stored in memory facilitate rapid unit diagnostics.

Easy access filters simplify maintenance and extend the life of the product.

Room freeze protection initiates heat if temperature falls to 40°F in an unoccupied room.

Random compressor restart protects electrical systems from overload when power is restored.

Tamper-resistant, anodized stamped aluminum grille withstands chalking and oxidation.

Break-proof control door design maintains the integrity of the unit.

Indoor coil frost sensor protects the compressor to lengthen the life of the unit.

Diamondblue Advanced Corrosion Protection® protects the outdoor coil from harsh environments.

Warranty and Support

Industry leading warranty features 2-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.

Energy Efficient & Energy Smart

Super-efficient refrigeration design with EERs up to 13.0 and COP up to 3.6.

Exceptional FriedrichLink® energy management thermostats available (wired & wireless) with integrated occupancy sensor, five distinct energy presets and comprehensive remote management capability.*

Advanced coil design adds more surface area leading to higher efficiencies.

Thicker steel inner-wall and foam construction decreases thermal transfer and energy loss.

Energy efficient heat pump models available in our complete line.

Electronic defrost control ensures more run time in efficient heat pump mode.

Electronic temperature limiting to adjust low/high temperature range limits for reduced energy usage.

Slinger ring technology in condensate removal system cools the coil and increases efficiency.

Desk control ready to allow hotel owners to control units from a central location.

Sound Reduction Technology

Two permanently lubricated fan motors for added durability and reduced sound levels indoors.

Quiet, efficient rotary compressor mounted with vibration isolators to keep the compressor running smoothly and quietly.

High-density insulation and steel inner wall block outdoor noise.

Tangential blower wheel creates a wide path air flow that reaches the furthest corner of the guest room more quietly than conventional fans.

Comfort, Health & IAQ

Dehumidification removes up to 3.1 pints/hour of moisture in cool mode to improve comfort and reduce the chance of mold and mildew growth.

Constant Fan mode provides continuous fan operation in cooling or heating modes to create a steady stream of white noise that masks sound level changes when the compressor cycles on/off.

Fresh air damper brings in fresh outside air when desired.

Intuitive unit controls are user friendly with easy-to-read LED display that can show either set-point or actual room temperature as selected by owner.

Anti-microbial air filters are easy to access and washable.

Instant Heat on heat pump models quickly heats a room to the desired temperature for increased comfort.

Even-heat monitoring checks room temperature and automatically adds heat boost if necessary.

Automatic periodic sampling of room temperature to ensure desired conditions are maintained.

Reversible indoor air louvers to easily change direction of airflow.

Ease of Maintenance & Installation

Modular product design ensures easy access to key components for cleaning and repairs; including washable, lift-out air filters.

Remote thermostat pop-out wiring module allows easier wiring and unit change out without rewiring thermostat.

Standard heat output power cord comes attached to the unit.

Compact front is designed to preserve indoor floor space with a depth of 7¼ inches.

Surehold Front Cover System® securely attaches the front each time.

Inner wall service plate provides service access to tangential blower bearing without having to open up the entire inner wall.

Unit may be installed flush with the floor.



* Energy management capability requires purchase of additional hardware and activation fee.

ZONEAIRE® PREMIER SPECIFICATIONS

PTAC Electric Heat models

Models ending in 'K' are 230/208V, models ending in 'R' are 265V

Friedrich Model	PDE07K	PDE07R	PDE09K	PDE09R	PDE12K	PDE12R	PDE15K	PDE15R
Johnstone SKU	B76-099	B76-107	B76-100	B76-108	B76-101	B76-109	B76-102	B76-110
PERFORMANCE DATA:								
Cooling Btu	7200/7000	7200	9400/9200	9400	11800/11600	11800	14500/14200	14500
Cooling Watts	550/535	550	775/760	775	1015/1000	1015	1390/1365	1390
Energy Efficiency Ratio, EER	13.0/13.0	13.0	12.1/12.1	12.1	11.6/11.6	11.6	10.4/10.4	10.4
Moisture Removal (pints/hr.)	1.7	1.7	2.1	2.1	2.7	2.7	3.1	3.1
Sensible Heat Ratio	0.86	0.86	0.85	0.85	0.75	0.75	0.67	0.67
ELECTRICAL DATA:								
Voltage (1 PHASE, 60 Hz)	230/208	265	230/208	265	230/208	265	230/208	265
Volt Range	253-187	292-239	253-187	292-239	253-187	292-239	253-187	292-239
Current (Amps)	2.7/2.9	2.4	3.7/3.9	3.3	4.9/5.1	4.2	6.2/6.7	5.4
Power factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Compressor LRA	13.0	12.5	19.5	13.5	21.5	19.0	28.9	21.6
Compressor RLA	2.5	2.2	3.5	3.0	4.7	3.9	5.9	5.05
Outdoor Fan Motor, HP	0.080	0.080	0.080	0.080	0.086	0.086	0.086	0.086
AIRFLOW DATA:								
Indoor CFM, HIGH	345/315	345	355/325	355	400/390	400	400/390	400
Indoor CFM, LOW	270/255	270	300/275	300	325/310	325	325/310	325
Vent CFM	75	75	75	75	75	75	75	75
PHYSICAL DATA:								
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (all models)							
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" (all models)							
Cut Out Dimensions (H x W x D)	16 1/4" x 42 1/4" (all models)							
Net Weight (lbs.)	106	107	115	115	119	118	121	121
Shipping Weight (lbs.)	126	127	135	135	139	138	140	140
R-410A CHARGE (oz.)	23	23	24	24	36	36	36	36
Dimensions with Packaging (inches)	17 7/8" x 45" x 25 1/4" (all models)							

PTAC Heat Pump models

Models ending in 'K' are 230/208V, models ending in 'R' are 265V

Friedrich Model	PDH07K	PDH07R	PDH09K	PDH09R	PDH12K	PDH12R	PDH15K	PDH15R
Johnstone SKU	B76-103	B76-111	B76-104	B76-112	B76-105	B76-113	B76-106	B76-114
PERFORMANCE DATA:								
Cooling Btu	7200/7000	7200	9400/9200	9400	11800/11600	11800	14500/14200	14500
Cooling Watts	550/535	550	775/760	775	1015/1000	1015	1390/1365	1390
Energy Efficient Ratio, EER	13.0/13.0	13.0	12.1/12.1	12.1	11.6/11.6	11.6	10.4/10.4	10.4
Reverse Heating Btu	6000/5800	6000	8300/8100	8300	10600/10400	10600	13300/13000	13300
Heating Watts	485/470	485	695/675	695	910/895	910	1255/1225	1255
COP	3.6/3.6	3.6	3.5/3.5	3.5	3.4/3.4	3.4	3.1/3.1	3.1
Moisture Removal (pints/hr.)	1.7	1.7	2.1	2.1	2.7	2.7	3.1	3.1
SENSIBLE HEAT RATIO	0.86	0.86	0.85	0.85	0.75	0.75	0.67	0.67
ELECTRICAL DATA:								
Voltage(1 PHASE, 60 Hz)	230/208	265	230/208	265	230/208	265	230/208	265
Volt Range	253-187	292-239	253-187	292-239	253-187	292-239	253-187	292-239
Current (Amps)	2.7/2.9	2.4	3.7/3.9	3.3	4.9/5.1	4.2	6.2/6.7	5.4
Reverse Heat. Amps	2.4/2.6	2.2	3.4/3.2	3.1	4.2/4.7	3.7	6.2/6.7	5.0
Power Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Compressor LRA	13.0	12.5	19.5	13.5	21.5	19.0	28.9	21.6
Compressor RLA	2.5	2.2	3.5	3.0	4.7	3.9	5.9	5.05
Outdoor Fan Motor, HP	0.080	0.080	0.080	0.080	0.086	0.086	0.086	0.086
AIRFLOW DATA:								
Indoor CFM, HIGH	345/315	345	355/325	355	400/390	400	400/390	400
Indoor CFM, LOW	270/255	270	300/275	300	325/310	325	325/310	325
VENT CFM	75	75	75	75	75	75	75	75
PHYSICAL DATA:								
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (all models)							
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" (all models)							
Cut Out Dimensions (H x W x D)	16 1/4" x 42 1/4" (all models)							
Net Weight (lbs.)	113	112	119	119	122	119	124	122
Shipping Weight (lbs.)	133	132	139	139	141	139	144	144
R-410A CHARGE (oz.)	34	34	34	34	36	36	39	39
Dimensions with Packaging (inches)	17 7/8" x 45" x 25 1/4" (all models)							

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.



FreshAir®

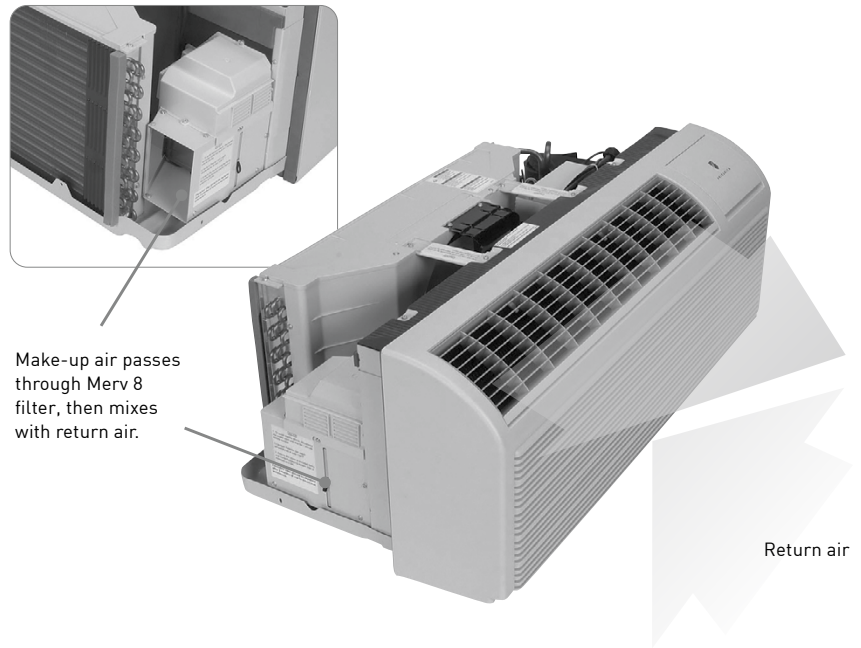
The most advanced PTAC ever. Delivers the best STC ratings* in the industry of units with true make-up air capability.

FreshAir system helps achieve ASHRAE 62.1-2013 requirements, and brings up to 52 CFM of conditioned, MERV 8 filtered, outside air into the space.

Patents-pending technology uses the inverter compressor and main cooling system to optimize temperature and humidity level of incoming air.

By introducing make-up air directly into the guestroom, rooftop central fresh air systems can be considerably downsized to service only the common areas of the property.

This greatly reduces the cost and complexity of hotel design and construction. Unlike other PTACs, the FreshAir PTAC utilizes the main evaporator coil and MERV 8 filters to truly condition and filter the outside ventilation air.



Friedrich's proprietary Freshaire™ design and delivery system is protected under US Patent#10.436.457
*With makeup air active (door open)

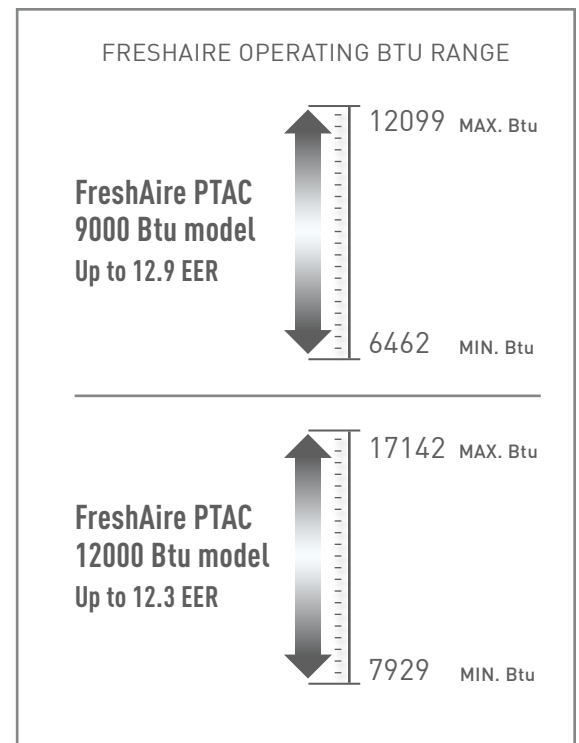
The widest cooling & heating range in the industry with only two models

Variable speed technology gives you the flexibility of a full line of PTACs with only two models, and offers the highest available capacity of any 42x16 PTAC on the market at over 17000 Btus.

The Friedrich Inverter variable speed compressor matches the unit output to the actual demand of the space for increased comfort and lower energy consumption.

- The **9000 Btu MODEL** can operate as low as 6462 Btus and as high as 12099 Btus.
- The **12000 Btu MODEL** can operate as low as 7929 Btus and as high as 17142 Btus.

That's like getting multiple PTACs in one.



Delivers best-in-class efficiencies and low sound levels.



FreshAire units with inverter compressors deliver equivalent SEERs up to 15.0; application HSPFs up to 11.57, and offer many advantages over traditional PTACs.

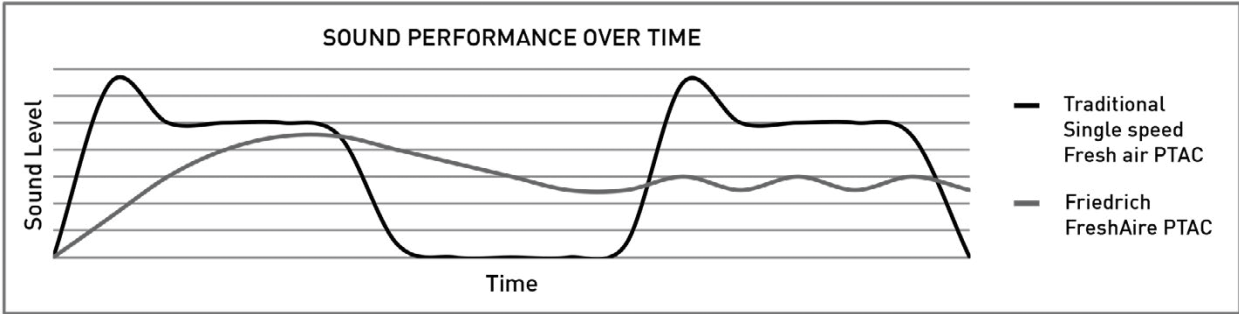
- Improved dehumidification
- Quieter start-up and operation
- Better efficiency during part load hours of cooling & heating
- Reduced temperature swings improve guest comfort

TRADITIONAL PTAC	FRESHAIRE INVERTER PTAC
At initial start up, a fixed capacity system slowly reaches the set temperature.	FASTER TO SETPOINT At initial start up, utilizes variable capacity to quickly reach the set temperature.
Complete shutdown once set temperature is achieved.	MAXIMUM ENERGY SAVINGS Reduces capacity as set temperature is achieved.
Temperature within the space rises until 2nd system start up. System works at full capacity to again reach the set temperature. System cycles on and off continually to maintain the set temperature.	MAINTAINS PRECISE COMFORT Variable capacity maintains set temperature keeping space comfortable with reduced energy consumption. Variable capacity operation provides improved humidity control in the guestroom.

Soft-start technology provides the smoothest PTAC sound available

The variable-speed operation of the FreshAire PTAC allows the unit to work at the optimal speed to match the true load of the room. This not only provides the best energy consumption curve it also adds to guest comfort by eliminating the harsh start-ups associated with single speed compressors.

THE CURVES BELOW ILLUSTRATE THE DIFFERENT SOUND CHARACTERISTICS OF A SINGLE-SPEED PTAC VERSUS A FRESHAIRE MODEL PTAC.

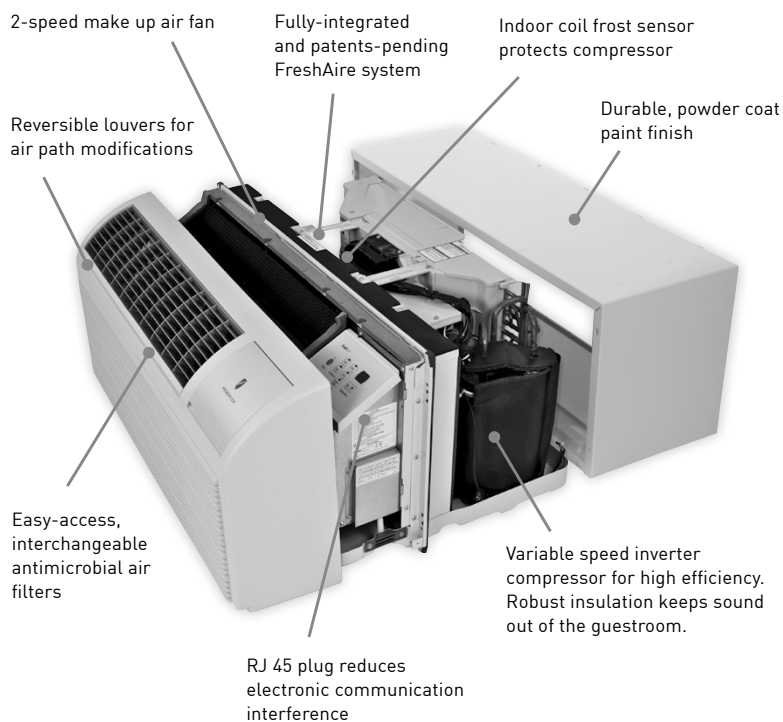


Innovative design and quality components deliver unmatched performance

The FreshAir PTAC inverter compressor provides superior energy efficiency

FreshAir PTAC components can be easily accessed by your maintenance team so units can be removed, serviced and placed back in service faster.

Commercial grade components provide reliable performance in even the most extreme climates.



IMPORTANT NOTE: Sleeves are sold and shipped separately to accommodate new construction and replacement requirements. Fits other PTAC sleeves without the added expense of a baffle kit.

FRESHHAIRE EXTENDED CAPACITY RANGE

230/208V Fresh Air Inverter

COOLING

PVH09K

STANDARD RATING 9600/9400 Btu
EXTENDED RATING 6,462 - 12099 Btu

PVH12K

STANDARD RATING 12000/11800 Btu
EXTENDED RATING 7,929 - 17142 Btu

Up to 12.9 EER

Up to 15.0 Equivalent SEER

HEAT PUMP

PVH09K

STANDARD RATING 8200/8500 Btu
EXTENDED RATING 5606 - 11745 Btu

PVH12K

STANDARD RATING 11600/11800 Btu
EXTENDED RATING 6995 - 16187 Btu

Up to 11.57 Application HSPF

265V Fresh Air Inverter

COOLING

PVH09R

STANDARD RATING 9600 Btu
EXTENDED RATING 6,462 - 12099 Btu

PVH12R

STANDARD RATING 12000 Btu
EXTENDED RATING 7,929 - 17142 Btu

Up to 12.0 EER

HEAT PUMP

PVH09R

STANDARD RATING 8500 Btu
EXTENDED RATING 5606 - 11745 Btu

PVH12R

STANDARD RATING 11800 Btu
EXTENDED RATING 6995 - 16187 Btu

Up to 3.57 COP

BACK UP ELECTRIC HEAT

2.5 kw, 3.5 kw and 5.0 kw* heater options

*5.0 kw heater cannot be used on PV09K/PV09R



FRESH Aire® FEATURES

FreshAire System

Dedicated 2-speed fan delivers up to 52 CFM of outside air into the room.

Merv 8 filter is washable and replaceable.

Does not rely on separate refrigeration system like competitor's units.

Durable Construction

Aluminum endplates reduce outdoor coil corrosion.

Galvanized zinc coated steel wall sleeve and steel base pan undergo an 11-step preparation process, are powder coated with a polyester finish and cured in an oven for exceptional durability.

RJ 45 communication plug, enables a better balanced communication signal which allows the FreshAire PTAC to communicate fully with the VRPXEMRT 12V controller allowing full variable control of the inverter compressor and brings access to our feature rich energy management suite of options including room occupancy.

Factory run-tested units reduce problems in the field.

Internal diagnostic program can alert maintenance to component failures or operating problems. Fourteen numeric service error codes stored in memory facilitate rapid unit diagnostics.

Easy access anti-microbial filters simplify maintenance and extend the life of the product.

Room freeze protection initiates heat if temperature falls to 50°F in an unoccupied room.

Random compressor restart protects electrical systems from overload when power is restored.

Tamper-resistant, anodized stamped aluminum grille withstands chalking and oxidation.

Break proof control door design maintains the integrity of the unit.

Indoor coil frost sensor protects the compressor to lengthen the life of the unit.

DiamonBlue Advanced Corrosion Protection® comes standard on all PTACs for long life in harsh coastal environments. See note on the next page regarding coastal installation of FreshAire PTACs in coastal regions.

Energy Efficient & Energy Smart

Variable speed Inverter compressor delivers EERs up to 12.9 at part load conditions (9000 Btu model operating at 6462 Btu).

Exceptional FriedrichLink® energy management thermostats available (wired & wireless) with integrated occupancy sensor, five distinct energy presets and comprehensive remote management capability.*

Energy efficient heat pump models available in our complete line.

Electronic defrost control ensures more run time in efficient heat pump mode.

Electronic temperature limiting to adjust low/high temperature range limits for reduced energy usage.

Slinger ring technology in condensate removal system cools the coil and increases efficiency.

Central desk control ready to allow hotel owners to control units from a central location.

Comfort, Health & IAQ

Dehumidification removes moisture in cool mode to improve comfort and reduce the chance of mold and mildew growth.

Integrated Fresh air manifold effectively conditions outside air and meets ASHRAE 62.1 standard for IAQ

Intuitive unit controls are user friendly with easy-to-read LED display that can show either set-point or actual room temperature as selected by owner.

Anti-microbial air filters are easy to access and washable.

Instant Heat heat pump mode quickly heats a room to the desired temperature for increased comfort.

Automatic periodic sampling of room temperature to ensure desired conditions are maintained.

Reversible indoor air louvers to easily change direction of airflow.

Sound Reduction Features

Two permanently lubricated fan motors for added durability and reduced sound levels indoors.

Quiet, efficient inverter compressor mounted with vibration isolators to keep the compressor running smoothly and quietly.

High-density insulation and steel inner wall block outdoor noise

Tangential blower wheel creates a wide path air flow that reaches the furthest corner of the guest room more quietly than conventional fans.

Ease of Maintenance & Installation

Modular product design ensures easy access to key components for cleaning and repairs, including washable, lift-out air filters.

Surehold Front Cover System® securely attaches the front each time.

May be installed low on the floor.

Warranty and Service

2 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

* Energy management capability requires purchase of additional hardware and activation fee.

FRESH Aire® SPECIFICATIONS

PVH Series Cooling with Heat Pumps

Friedrich Model		PVH09K	PVH12K	PVH09R	PVH12R
Johnstone SKU		B62-695	B62-696	B62-697	B62-698
PERFORMANCE DATA:					
Cooling Capacity	Btu	9600/9400	12000/11800	9600	12000
Cooling Capacity Min./Max	Btu	6462-12099	7929-17142	6462-12099	7929-17142
Cooling Watts		790/775	1040/1025	800	1040
Energy Efficiency Ratio	EER	12.1/12.1	11.5/11.5	12.0	11.5
Reverse Heating Capacity	Btu	8200/8500	11600/11800	8500	11800
Reverse Heating Capacity Min./Max.	Btu	5606-11475	6995-16187	5606-11475	6995-16187
Heating Watts		710/685	970/950	710	970
COP		3.51/3.51	3.57/3.58	3.51	3.57
Moisture Removal	Pts./Hr.	1.4	1.9	1.23	2.43
Sensible Heat Ratio		80%	78%	82.7%	73.7%
ELECTRICAL DATA:					
Voltage (1 PHASE, 60 Hz)		230/208	230/208	265	265
Volt Range		253-187	253-187	292-239	292-239
Current	Amps	4.4/4.5	4.5/5.0	3.8	4.7
Reverse Heat	Amps	4.0/4.1	4.6/4.9	3.6	4.3
Power Factor		0.80	0.96	0.82	0.90
Compressor LRA		N/A	N/A	N/A	N/A
Compressor RLA		3.2	4.1	4.2	6.2
Outdoor Fan Motor	HP	1/14	1/12	1/14	1/12
AIRFLOW DATA:					
Indoor CFM, HIGH		400	470	400	470
Indoor CFM, LOW		250	360	290	360
Make-up Air CFM@0.05" wc		52	52	52	52
PHYSICAL DATA:					
Sleeve Dimensions H x W x D		16" x 42" x 13 3/4" (all models)			
Dimensions with front H x W x D		16" x 42" x 21" (all models)			
Cut Out Dimensions H x W		16 1/4" x 42 1/4" (all models)			
Net Weight	Lbs.	115	120	115	120
Shipping Weight	Lbs.	137	142	137	142
R-410A Charge	Oz.	30.34	32.80	32.1	32.8

		230/208V ELECTRIC HEATER RATING (CONFIGURATION BASED ON POWER CORD)		
POWER CORD #	VOLTAGE	BRANCH CKT AMPS	MCA	WATTS
PXPCFA23015A	230/208	15	13.9	2500
PXPCFA23020A	230/208	20	19.9	3600
PXPCFA23030A	230/208	30	27.5	5000
PXPCFA26515A	265V	15	12.0	2500
PXPCFA26515A ¹	265V	15	7.3	1500
PXPCFA26520	265V	20	16.8	3500
PXPCFA26530	265V	25	23.8	5000








¹ Data for Model PVH09R
PXPCFA23020A comes standard on PTAC

Warning: Coastal Region Installations.

Friedrich Air Conditioning recommends that owners take necessary precautions to protect the interior space, furnishings, and hardware from corrosion when installing make-up air products in coastal applications. Our FreshAire PTAC delivers up to 52 CFM of direct outside make-up air into the space. If installed within 2 miles of a body of salt water, due to the high salt content of coastal air and the high latent load of the make-up air, premature corrosion will occur naturally on non-protected items. Friedrich Air Conditioning is not responsible for premature corrosion resulting from the use of make-up air products.

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.

Receptacles and Fuse Types

Voltage	230V			265V			
Amps	15	20	30	15	15	20	25
Heater Size	2.5 kW	3.5 kW	5.0 kW	1.5 kW	2.5 kW	3.5 kW	5.0 kW
Receptacles							
NEMA# Receptacle	6-15R	6-20R	6-30R	7-15R	7-15R	7-20R	7-30R
NEMA# Plug	6-15P	6-20P	6-30P	7-15P	7-15P	7-20P	7-30P



FRIEDRICH PTAC OPTIONAL ACCESSORIES

WALL SLEEVE

PDXWSA JOHNSTONE SKU B93-470

Galvanized steel is prepared in a multi-step process for stronger paint adhesion, then powder coated with a polyester finish and cured in an oven for exceptional durability. The wall sleeve is insulated for thermal efficiency and noise reduction.

SLEEVE DIMENSIONS: 16" H x 42" W x 13 3/4" D

CUT OUT DIMENSIONS: 16 1/4" H x 42 1/4" W

FRONT COVER DIMENSIONS: 16" H x 42" W x 7 3/4" D

DEEP WALL SLEEVES

PDXWSEXT18

PDXWSEXT24

For walls up to 17 1/2" deep. For walls up to 23 1/2" deep.

PDXWSEXT (Custom depth wall sleeve)

One-piece, extended wall sleeve with built-in baffle for walls from 13 1/4" to 25 1/2" deep are available by special order.

SLEEVE EXTENSION RETROFIT KIT

PXSE JOHNSTONE SKU B93-471

2 1/4" sleeve extension attached to the room side of the sleeve to allow for the installation of a PD-series Friedrich PTAC in an 11 1/2" deep T-series sleeve.

INTELLIGENT WALL CONTROLLER* (PREFERRED FRESH-AIRE MODEL CONTROLS)

VRPXEMRT2

Wired thermostat with occupancy sensor designed for FreshAir control. Built-in RH control to maximize FreshAir capabilities. Used with EMOCT for HVAC energy management

EMWRT2

Wired thermostat with occupancy sensor. Built in RH control to maximize FreshAir capabilities. Used with EMOCT for HVAC energy management

DIGITAL REMOTE THERMOSTAT

RT7P

24v, Wired (7 Std), single stage, wall-mounted, 7-day programmable thermostat, three fan speeds (auto/low/high), and an easy-to-read large backlight display.

RT7

24v, Wired (7 Std), non-programmable, wall-mounted thermostat (unit powered capable). three fan speeds (auto/low/high), and an easy-to-read backlight display.

WRT2

Wireless wall-mounted thermostat (battery powered). Wireless transmitter (24v), 7-day programmable, three fan speeds (auto/low/high), and an easy to read large backlight display.

FRIEDRICHLINK® ENERGY MANAGEMENT THERMOSTATS

EMRT2 JOHNSTONE SKU B18-871

EMWRT2 JOHNSTONE SKU B18-872

Wired thermostat with occupancy sensor.

Wireless thermostat with occupancy sensor.

EMOCT JOHNSTONE SKU B18-873

EMRAF JOHNSTONE SKU B18-874

Online connection kit for Energy Management

Remote access fee.

EMRHCF

Remote humidity control fee.

REMOTE THERMOSTAT ESCUTCHEON KIT PDXRTB

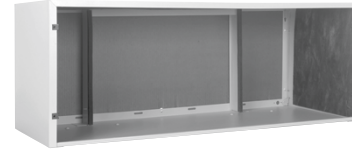
Kit contains escutcheons that can be placed over the factory control buttons (recommended when a remote wall mounted thermostat is used as controls become inoperable). The escutcheon directs the user to the wall thermostat for operation and retains the LED window to display error codes and diagnostic information. 10 pack.

CONDUIT KIT /JUNCTION BOX PXCJA

Hard wire conduit kit with junction box for 208/230V and 265V units (subbase not required). Kit includes a means of quick disconnect for easy removal of the chassis.



PDXWSA



Deep wall sleeve extension PDXWSEXT18 shown with weather panel in place



PXSE



EMWRT2, EMRT2, VRPXEMRT2



EMOCT



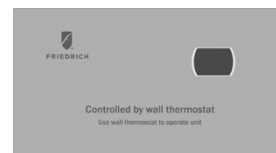
RT7P



RT7



WRT2



PDXRTB



PXCJA

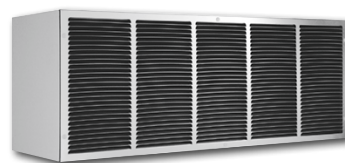
*NOTE: The FreshAir PTAC must be paired with wall controller VRPXEMRT2 to operate as a fully variable speed unit. When used with other compatible thermostats, the unit will operate at multiple speeds in either cooling or heating mode.

FRIEDRICH PTAC OPTIONAL ACCESSORIES

STANDARD GRILLE

PXGA JOHNSTONE SKU B92-620

Standard, stamped, anodized aluminum to resist chalking and oxidation.



PXGA

ARCHITECTURAL GRILLES

Architectural grilles consist of heavy gauge 6063-T5 aluminum alloy.

PXAA Clear extruded aluminum.

JOHNSTONE SKU B92-621

PXBG Beige acrylic enamel.

JOHNSTONE SKU B98-804

PXSC Available in custom colors.



PXAA

DECORATIVE SUBBASE (black) PXSBA JOHNSTONE SKU B72-964

Provides unit support for walls less than six inches thick. Includes leveling legs, side filler panels and mounting brackets for electrical accessories. Accepts circuit breaker, power disconnect switch and conduit kit.



PXSBA

ELECTRICAL SUBBASE

Provides unit support for walls less than six inches thick. Includes leveling legs, side filler panels, mounting brackets, a plug-in receptacle and field-wiring access. The subbase also includes electrical knockouts for power disconnect switch or circuit breaker.

PXSB23020	Electrical Subbase - 230V 15 & 20A
PXSB23030	Electrical Subbase - 230V 30A
PXSB26515	Electrical Subbase - 265V 15A
PXSB26520	Electrical Subbase - 265V 20A
PXSB26530	Electrical Subbase - 265V 30A



PXSB

SUBBASE DISCONNECT SWITCH

PXDS



PXDS

POWER CORDS

Universal power cords enable properties to select the appropriate heater size. Reference the adjacent table for power cord options.

ZONEAIRE PREMIER	JOHNSTONE SKU	FRESHAIRE	Length
PXPC23015A	B19-260	PXPCFA23015	LCDI 230V 15A Cord - 2.5 kW 67 in.
PXPC23020A	B19-261	PXPCFA23020	LCDI 230V 20A Cord - 3.5 kW 67 in.
PXPC23030A		PXPCFA23030	LCDI 230V 30A Cord - 5.0 kW 67 in.
PXPC26515A	B19-262	PXPCFA26515	Non-LCDI 265V 15A Cord - 2.5 kW 27 1/2 in.
PXPC26520A	B19-263	PXPCFA26520	Non-LCDI 265V 20A Cord - 3.5 kW 27 1/2 in.
PXPC26530*	B17-959	PXPCFA26530*	Non-LCDI 265V 30A Cord - 5.0 kW 27 1/2 in.

PXFTA ZONEAIRE PREMIER

PXFTB ZONEAIRE SELECT AND FRESHAIRE MODELS

Antimicrobial air filters. 10 pack. Each PTAC requires 2 filters.



PXFTA



PXFTB

PXFAFT10 (FRESHAIRE MODELS)

Replacement Merv 8 filters. 10 pack. Each PTAC requires 1 filter.



PXFAFT10

CONDENSATE DRAIN KIT

PXDR10

Attaches to the bottom of the wall sleeve for internal draining of condensate, or to the rear wall sleeve flange for external draining. Recommended for all units to remove excess condensate. 10 pack.



PXDR10

LATERAL DUCT ADAPTER

PDXDAA

Attaches to the Friedrich PTAC/PTHP unit to direct up to 35% of the total airflow to a second room. The unit-mounted duct plenum features a front-mounted aluminum grille that has two positions to provide the most optimal air direction. The air may be directed to either the left or the right of the unit through the supplied 3 1/2" H x 7" W x 47" L plenum. Plenum may be cut to length by the installer. Kit includes duct plenum, front grille, 47" duct extension, duct discharge grille, duct end cap and all necessary mounting hardware.

LATERAL DUCT EXTENSION

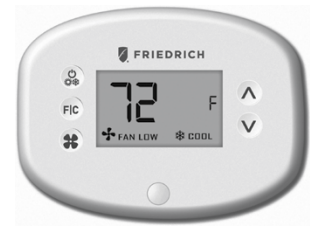
PDXDEA

Additional 3 1/2" H x 7" W x 47" L plenum used with the LATERAL DUCT ADAPTER. A maximum of three duct extensions may be used together. Note: Ducted airflow is reduced as duct length is increased.



PDXDAA and PDXDEA ship together

Save big on energy without compromising guest comfort with FriedrichLink® thermostats, the advanced energy management solution for Friedrich ZoneAire® and FreshAire® PTACs



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.

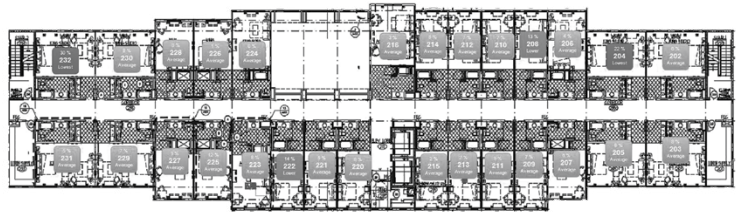
5 Energy Savings Presets

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, EMWRT2** and **VRPXEMRT2** 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. Optional Humidity Control Feature available through Remote Management. See accessories on page 14.

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.

Set point 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® For Lodging

Vert-I-Pak®

A BETTER SOLUTION FOR HOSPITALITY AND MULTI-FAMILY



Ducted and closet-mounted, Vert-I-Pak eliminates the need for multiple through-the-wall units. The Vert-I-Pak unit is installed out of sight, so guests enjoy a more attractive, more homelike appearance.

BETTER AESTHETICS

Indoors

The unit is installed out of sight, so your guests will only see a wall thermostat.

Outdoors

Packaged unit eliminates the clutter of outdoor condensing units and the sleek architectural grille is available in custom colors to match the building's exterior.



A QUIET, ENERGY EFFICIENT OPTION FOR SUITES, EXTENDED STAY PROPERTIES, ASSISTED LIVING, AND STUDENT HOUSING

Heat Pump

COOLING

9000–22500 Btu

All 11.0 EER

REVERSE HEATING

8200–19200 Btu

All 3.3 COP

AUXILIARY ELECTRIC HEATING

7000–17000 Btu

ASHRAE 90.1-2013 Compliant



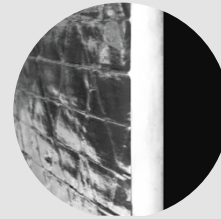
VERT-I-PAK® IS A SUPERIOR PRODUCT

Advanced features you'll find on Friedrich Vert-I-Pak	What you'll find on many competitors' products
<ol style="list-style-type: none"> 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. ½ inch foil-backed insulation added on the inside of the chassis to reduce sound transmission into the guest room. 3. All model efficiencies of 11.0 EER and 3.3 COP. 4. Condensate removal system uses slinger ring technology to cool the coil and increase efficiency. 5. Dynamically balanced blower with large, vibration-absorbing motor mounts for smooth and quiet operation. 6. Patented telescoping plenums (accessory) easily adapt to more installations. 7. 5 year limited warranty*; 1 year labor warranty. <p>* See warranty documentation for details.</p>	<ol style="list-style-type: none"> 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.

ENGINEERED FOR QUIETER PERFORMANCE

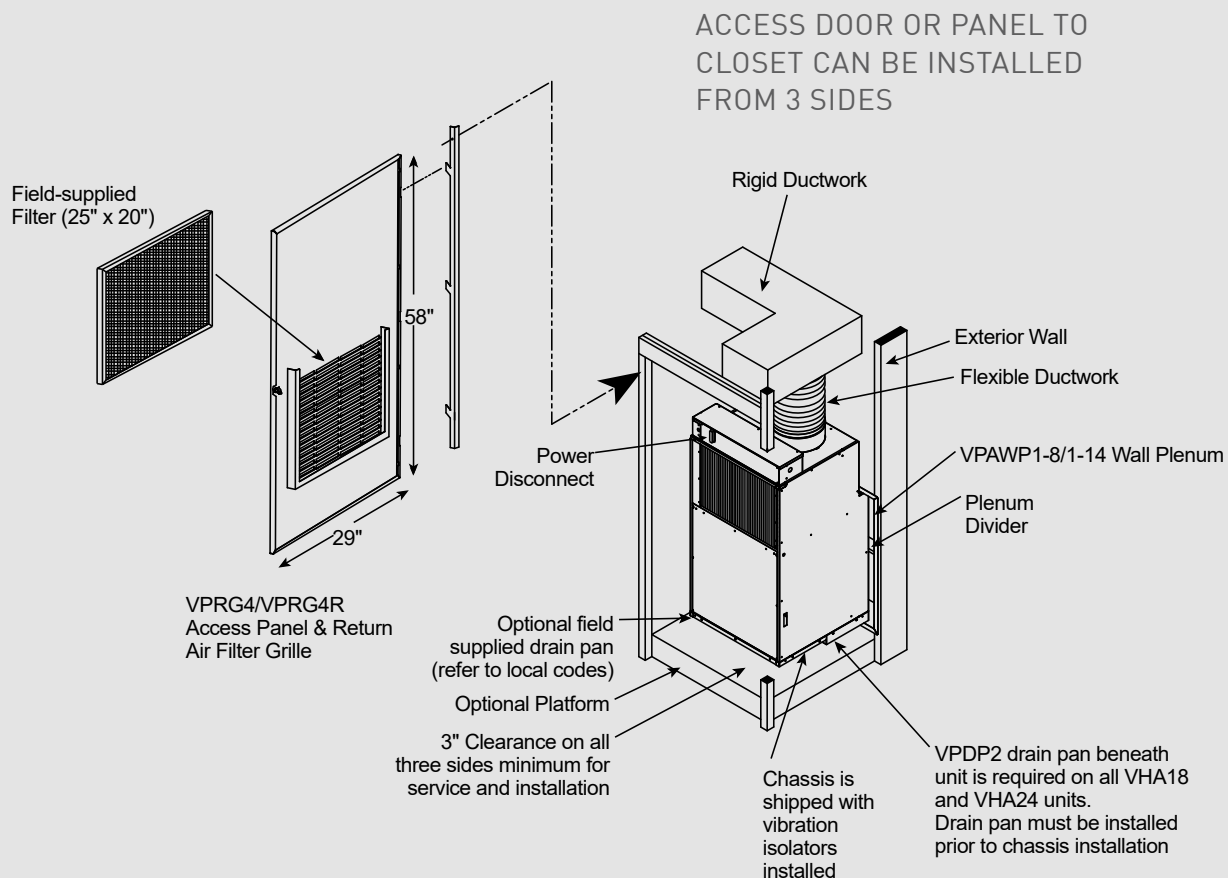
Friedrich's 'Free Floating' chassis design and superior insulation help to eliminate vibration noise

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



Foil-backed, 1/2" insulation blanket inside the cabinet reduces sound transmitted into the guest room

TYPICAL VERT-I-PAK® INSTALLATION



VERT-I-PAK® ADVANTAGES

A better heating and cooling option inside and out

- **Eliminates the clutter** of outdoor condensing units and the need for vandalism barriers.
- Completely **self-contained**
- **No refrigerant lines** running from floor to floor
- **Fast, easy replacement** keeps spaces livable

Improved guest comfort

- **Individually** controlled
- Vert-I-Pak models include back up auxiliary electric heat.
- **Duct air specifically where it's needed**, not just on the outside wall
- 2-speed fan with **constant fan option** on Friedrich RT7, RT7P and WRT2 thermostats

FEATURES

Reliable and durable

- BLDC (**Brushless DC Motor**) motors for maximum efficiency
- Engineered drain pan **won't rust**, eliminating the risk of unsightly rust stains from condensation on the building exterior
- Painted, **18-gauge galvanized steel** cabinet resists corrosion
- Standard safety power disconnect
- Electronic control panel on unit for **easy diagnostics and servicing**
- **Every unit is 100% run tested** prior to shipment


DIAMONBLUE
Advanced Corrosion Protection®



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

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

Easy installation

- Can be installed from any interior side (front, right or left)
- **Ductable** to multiple rooms
- **Compact and lightweight**, weighs as little as 114 lbs.
- Installation does not require an HVAC technician
- **Prewired**, charged and piped
- Units are **ready to install** with only electrical hook up needed
- 10" crimped and beaded duct-collar ready to attach flex duct
- Patented **telescoping wall plenums** adjust to fit varying exterior wall thicknesses
- Primary condensate removal system provided through 3/4" pipe fittings for more placement options
- Secondary overflow from primary drain*
- **Central desk control** ready
- 24-volt remote wireless or wired thermostat ready

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.



Energy management thermostats available

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

* 18000 Btu & 24000 Btu models use secondary gravity-fed drain. ** Energy management capability requires purchase of additional hardware and service fee

VERT-I-PAK® OPTIONAL ACCESSORIES

ARCHITECTURAL LOUVER

VPAL2 JOHNSTONE SKU B73-619 VPSC2 JOHNSTONE SKU B73-620

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

DIMENSIONS: 25 ⁹/₁₆" W x 31 ¹/₁₆" H



VPAL2



VPAWP1-8/14

WALL PLENUM (Required)

VPAWP1-8 JOHNSTONE SKU B73-617 VPAWP1-14 JOHNSTONE SKU B73-618

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

RETURN AIR GRILLE/ACCESS PANEL/SOLID DOOR ACCESS PANEL

VPRG4 JOHNSTONE SKU B73-621 VPRG4R/VPRG4R/VPRG4SD

Hinged panel allows access to unit and return air filter.

A field-supplied filter (25" x 20") should be mounted on the inside grille. Panel can be mounted with return air openings high or low on the door for optimum sound attenuation. VPRG4SD is a solid door panel. VPRG4 is a default left in-swing, the VPRG4R is a right in-swing.

DIMENSIONS: 29" W x 58" H

CUTOUT DIMENSIONS: 27" W x 55 ³/₄" H



VPRG4/VPRG4R

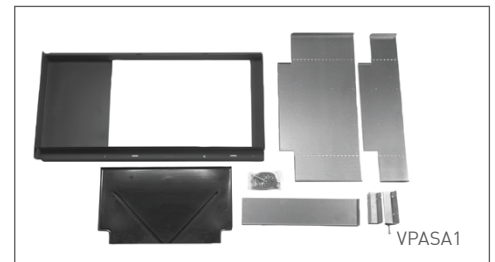


VPRG4SD

FIRST COMPANY SLEEVE ADAPTER

VPASA1 JOHNSTONE SKU B18-869

Single piece, welded adapter allows retrofit into existing First Company® SPXR-series single package vertical unit wall sleeve and louver. Easily connects to Friedrich chassis. Only compatible with Friedrich's smaller sized VPAK 9k and 12k units.



VPASA1

SINGLE STAGE THERMOSTATS

RT7P

Wired, single stage, wall-mounted programmable thermostat with two fan speeds and backlight. Controls Friedrich VERT-I-PAK.

RT7

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



RT7



RT7P

WRT2

Wireless, single stage, wall-mounted programmable thermostat with two fan speeds and backlight. Controls Friedrich VERT-I-PAK.



WRT2



EMRT2, EMWRT2

ENERGY MANAGEMENT THERMOSTATS

EMRT2 JOHNSTONE SKU B18-171

Wired thermostat has occupancy sensor.

EMWRT2 JOHNSTONE SKU B18-172

Wireless thermostat has occupancy sensor.

EMOCT

JOHNSTONE SKU B18-873

Online connection kit. Remote access fee. Remote Occupancy Sensor

EMRAF

JOHNSTONE SKU B18-874

EMRTS

Remote Temperature

EMRDS

SensorDoor Switch

EMCWP

Wall Plate

EMRWOS

Wireless Occ. Sensor

DRAIN PAN (Required for VHA18 and VHA24 models)

VPDP2

For VHA18 & VHA24 models. Must be installed prior to chassis for easy installation/removal.



VPDP2

VERT-I-PAK® SPECIFICATIONS

Friedrich Model	VHA09K	VHA09R	VHA12K	VHA12R	VHA18K	VHA18R	VHA24K	VHA24R
Johnstone SKUs	B62-347 B62-348 B62-349	B62-350 B62-351 B62-352	B62-353 B62-354 B62-355	B62-356 B62-357 B62-358	B62-359 B62-360 B62-361	B62-362 B62-363 B62-364	B62-685 B62-686 B62-687 B62-688 B62-689	B62-690 B62-691 B62-692 B62-693 B62-694
COOLING DATA								
TOTAL COOLING CAP.	9300	9300	11500	11500	18400	18400	22500	22500
SENSIBLE COOL CAP.	7440	7440	9085	9085	13430	13430	15750	15750
POWER (W)	845	845	1045	1045	1670	1670	2045	2045
EER	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
HEATER SIZE (kW)	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0/7.5/10.0	2.5/3.4/5.0/7.5/10.0
HEAT PUMP DATA								
REVERSE HEATING BTU	8300	8300	10600	10600	16700	16700	19500	19500
COP @ 47F	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
HEATING POWER (W)	730	730	940	940	1480	1480	1732	1732
HEATING CURRENT (A)	3.6	3.1	4.5	3.7	7.0	6.1	9.2	9.2
ELECTRICAL DATA								
VOLTAGE (1 PHASE, 60 HZ)	208-230	265	208-230	265	208-230	265	208-230	265
VOLT RANGE	197-253	239-292	197-253	239-292	197-253	239-292	197-253	239-292
COOLING CURRENT (A)	4.1	3.5	4.9	4.0	7.9	7.0	10.5	10.5
AMPS L.R	21.0	21.0	23.0	23.0	37.0	37.0	44.0	44.0
INDOOR MOTOR (HP)	1/4	1/4	1/4	1/4	1/4	1/4	1/5	1/5
INDOOR MOTOR (A)	1.2	1.2	1.2	1.2	0.42	0.42	1.4	1.4
OUTDOOR MOTOR (HP)	—	—	—	—	1/4	1/4	1/4	1/4
OUTDOOR MOTOR (A)	—	—	—	—	1.6	1.6	1.7	1.7
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"
NET WEIGHT (LBS)	142	144	147	149	190	192	225	227
SHIPPING WEIGHT (LBS)	164	166	169	171	216	218	251	253
TEST SETTING	LOW	LOW	LOW	LOW	LOW	LOW	LOW	LOW
R410A CHARGE (OZ)	38.0	38.0	42.1	42.1	58.5	58.5	62	62
AIRFLOW DATA								
INDOOR CFM	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
.10" ESP	430	490	430	490	430	490	630	675
.15" ESP	410	470	410	470	410	470	595	640
.20" ESP	360	440	360	440	360	440	550	600
.25" ESP	310	400	310	400	310	400	505	550
.30" ESP	260	350	260	350	260	350	455	500
.35" ESP	-	-	-	-	-	-	400	445
.40" ESP	-	-	-	-	-	-	345	400
VENT CFM								
UP TO " " CFM	60	60	60	60	60	60	60	60

NOTES:

Cooling Standards: 95°F DB/75°F WB outdoor, 80°F DB/67°F WB indoor

Heating Standards: 47°F DB/43°F WB outdoor, 70°F DB/60°F WB indoor

Normal Value Wet Coil @ .1" ESP.

Rated CFM at Low Speed: VHA09....430 VHA12....430

VHA18....600 VHA24....655

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



Kühl®

HOME OR AWAY, YOU'RE IN CONTROL WITH THE FRIEDRICHCONNECT® APP.

Integrated Wi-Fi control from your smartphone. Also compatible with Amazon Alexa and Google Home.

Connect in minutes

It's easy with our simplified set up process

Easily set your home, away, and night time preferences

Set a seven-day custom schedule that fits your lifestyle

You're in control anytime, anywhere

Power units off and on, increase or decrease a unit's set point temperature, change system cool, fan, heat, and auto settings and fan speeds

Controlling multiple units is simple

With our advanced grouping program, you can control multiple units to work independently or as a single system. You can even invite other users to manage one or more of your units



QuietMaster®
technology



Control
with App



Save big
on energy



Breathe
easier

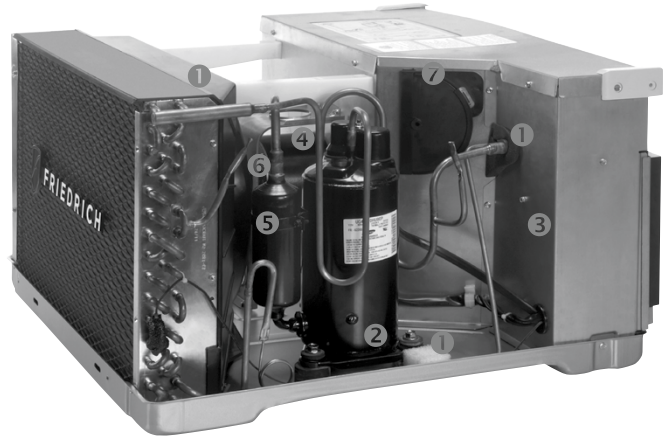


Voice command
compatible

UNRIVALED QUALITY

Kühl® is built to perform in the extreme conditions of industrial and commercial applications, but it's also perfect for today's home with the convenience and simple control today's consumers demand.

- ❶ Dense, sound-blocking insulation
- ❷ Quiet rotary compressor mounted on large rubber grommets
- ❸ Steel inner walls
- ❹ Totally-enclosed commercial grade fan motor
- ❺ Insulated air plenum prevents outside air and noise intrusion
- ❻ Two resilient rings on motor mount prevent metal-to-metal contact, which eliminates extra vibration and noise.
- ❼ Solid steel blower wheel housing for maximum sound reduction.



QuietMaster® technology

Building the quietest air conditioners begins with the design process and continues through the selection of superior components and materials.

It is shaped by skilled manufacturing and refined through on-going product testing in our engineering lab.

The result is a noticeably quieter cooling and heating experience, as much as 45% quieter than competitor's products.



UNRIVALED ENERGY SAVINGS OPTIONS, FOR CONTROL OF ONE OR MULTIPLE KÜHL® UNITS

In commercial applications, only Kühl has true energy management capabilities



25 Kühl models to choose from, including Kühl+ Electric Heat and Kühl+ Heat Pumps

Control via FriedrichConnect®

- Built-in Wi-Fi
- Voice command compatible
- Create customizable, 7-day schedules
- Advanced grouping of multiple units

Comfort and Convenience

- 24-hour timer
- Up to 4 cooling and 4 fan-only speeds on select models
- Auto fan adjusts the fan speed to maintain the set temperature
- Auto-changeover between cooling and heating modes (Kühl+ models except KEQ08)
- Auto restart
- 8-way air flow control for better air distribution
- Control panel lockout (ON/OFF)

QuietMaster® technology

- Up to 45% quieter than competitive models
- Steel inner wall and extra dense insulation blocks outdoor noise
- Vibration isolating design and components reduce operating noise
- Precision engineering delivers maximum air flow and air dispersion at low sound levels

Superior Air Filtration

- Superior fresh air intake and stale air exhaust vent*
- Washable, antimicrobial air filter
- Carbon filter absorbs odors and reduces ozone and volatile organic compounds (VOCs)
- Dual filtration provides superior air filtration with ratings as high as MERV 6.
- Check filter reminder
- Hinged door allows easy filter access for easier maintenance

Built To Last

- Robust 20 gauge steel cabinet
- Solid-steel blower housing offers enhanced protection
- Totally enclosed commercial grade fan motor runs at a lower temperature to prevent overheating and is double-mounted for added stability and reduced wear
- Durable base pan and steel inner walls
- Aluminum end plates will not contribute to rust-stained building exteriors
- Scratch-resistant cabinet
- High-tech aluminum fins with rifled copper tubing are more efficient and less prone to corrosion

Earth Friendly

- ENERGY STAR® qualified models, including heat pumps
- Multiple scheduling options save energy
- Kühl+ heat pumps provide energy efficient cooling and heating
- Temperature limiting for maximum low and high temperature settings
- Smart grid capable via participating energy provider
- Environmentally-friendly R-410A refrigerant used in all models
- Recyclable packaging

Safety & Security

- EntryGard® anti-intrusion protection secures the chassis to the sleeve to deter 'kick-in' intrusion
- Power cord leakage current protected
- Insect barrier*
- Aluminum rear grille protects the outdoor coil from debris and vandalism

Installation

- Install in a window or thru-the-wall
- Slideout chassis for more permanent installation and easier access for maintenance
- Patented firm grip handles for easier chassis installation and removal
- Includes heavy duty window installation hardware (optional accessory on Kühl+ models sold separately)
- Rugged hardboard side panels for a more permanent installation (heavy duty side curtains on KCQ and KEQ models)
- Power cord can run either left or right
- Front cover attaches easily and securely. Nut driver included**.



Sleeve sizes have remained unchanged for over 45 years. Today's Friedrich units are compatible with your existing similar-sized Friedrich sleeve should you decide to use it.



Heat and Cool Options

Kühl+ Electric Heat models utilize an electric heat strip to provide warm air quickly. They can be used for primary heating in moderate climates and as supplemental heating in colder climates. They are ideal for rooms that are always 'too cold in winter'.

Kühl+ Heat Pumps provide energy-efficient heating by extracting heat from the outside air. They can be used for primary heating in moderate climates and as supplemental heating in colder climates. 230 volt models have back-up electric heat that will activate when outside temperatures are too cold for efficient heat pump operation.

Your Friedrich dealer or distributor can assist you in selecting the right Kühl+ unit for your particular climate and application.

*Feature not available on KCQ and KEQ models. ** Nut driver not required for KCQ and KEQ models.

Friedrich Model	Johnstone SKU	Cooling Btu	Heating Btu	Volts	Cooling Amps	Cooling Watts	Heating Amps	Heating Watts	EER	CEER	Estimated Yearly Energy Cost	COP	Moisture Removal-Pints/HR	CFM	Net/ship Wt. lbs.	Sleeve
Kühl® (Cool Only)																
★ KCQ06A10A	B61-514	6000	—	115	4.8	492	—	—	12.2	12.1	\$48	—	1.5	190	72/85	Q
★ KCQ08A10A	B61-515	8000	—	115	6.5	661	—	—	12.1	12.0	\$65	—	2.1	200	72/85	
★ KCQ10A10B	B61-516	9500	—	115	8.6	864	—	—	11.0	10.9	\$85	—	3.2	250	72/85	
★ KCS08A10A	B61-517	8000	—	115	6.5	661	—	—	12.1	12.0	\$65	—	1.9	255	106/128	S
★ KCS10A10A	B61-518	10000	—	115	8.5	826	—	—	12.1	12.0	\$81	—	2.9	300	112/134	
★ KCS12A10A	B61-519	12000	—	115	9.5	1000	—	—	12.0	12.0	\$98	—	3.5	300	112/134	
★ KCS12A30A	B61-520	12000	—	230	4.8	992	—	—	12.1	12.0	\$97	—	3.5	300	116/138	
★ KCS14A10A	B61-521	13600	—	115	11.8	1236	—	—	11.0	10.9	\$121	—	4.3	275	141/154	
★ KCS16A30A	B61-522	15700	—	230	6.6	1454	—	—	10.8	10.7	\$142	—	5.0	330	141/154	M
★ KCM14A10A	B61-523	13600	—	115	10.9	1140	—	—	12.1	12.0	\$112	—	3.0	360	138/150	
★ KCM18A30A	B61-524	20000	—	230	9.6	1923	—	—	10.4	10.3	\$188	—	6.0	425	132/153	
★ KCM21A30A	B61-525	21500	—	230	9.6	2067	—	—	10.4	10.3	\$202	—	6.0	425	132/153	L
★ KCL24A30A	B61-526	24000	—	230	11.1	2308	—	—	10.4	10.3	\$225	—	7.5	640	191/212	
★ KCL28A30A	B61-527	28000	—	230	13.4	2800	—	—	10.0	9.9	\$273	—	9.3	640	193/214	
★ KCL36A30A	B61-528	35000	—	230	18.2	3846	—	—	9.1	9.0	\$376	—	11.0	725	212/248	
Kühl® + (Heat Pump)																
★ KHS10A10A*	B61-529	10000	8800	115	8.8	917	9.1	978	10.9	10.8	\$90	2.6	2.0	300	109/131	S
★ KHS12A33A	B61-530	12000	9800	230	5.0	1101	4.7	1257	10.9	10.8	\$108	2.9	3.0	375	115/136	
★ KHM18A34A	B61-531	17500	14900	230	7.4	1606	7.4	1568	10.9	10.8	\$157	2.8	5.6	450	141/154	M
★ KHL24A35A	B61-532	24000	21000	230	11.1	2330	10.3	2211	10.3	10.2	\$228	2.8	7.0	600	197/211	L
Kühl® + (Electric Heat)																
★ KEQ08A11A	B61-533	7700	4000	115	6.4	694	11.2	1290	11.1	11.0	\$68	—	2.1	200	72/85	Q
★ KES12A33A	B61-534	12000	10700	230	4.9	1091	16.0	3500	11.0	10.9	\$107	—	3.6	325	113/128	S
★ KES16A33A	B61-535	15700	10700	230	6.6	1454	16.0	3500	10.8	10.7	\$142	—	3.4	300	138/150	
★ KEM18A34A	B61-536	20000	13000	230	9.6	1923	19.5	4200	10.4	10.3	\$188	—	6.0	425	141/154	M
★ KEL24A35A	B61-537	24000	17300	230	11.1	2308	24.0	5500	10.4	10.3	\$225	—	7.0	750	197/211	L
★ KEL36A35A	B61-538	35000	17300	230	18.2	3846	24.0	5500	9.1	9.0	\$376	—	11.0	725	213/246	

* KHS10A10A heat pump operates on 115 volt and is not equipped with supplemental heat. Will not provide heat at temperatures below 40°F.

Friedrich room air conditioners are designed to operate in outdoor temperatures from 60°F to 115°F.

Kühl+ Heat Pump heating information indicates heat pump performance. Kühl+ Electric Heat heating information indicates electric heat strip performance.

For Kühl+ Heat Pump electric heating performance refer to corresponding Kühl+ Electric Heat model.

As an ENERGY STAR® partner, Friedrich Air Conditioning Co. has determined that the selected ENERGY STAR® models meet the ENERGY STAR® guidelines for energy efficiency. EER is the unit's Energy Efficiency Ratio; CEER is the unit's Combined Energy Efficiency Ratio.

Your energy costs will depend on your utility rates and use. The estimated energy cost is based on an electricity cost of \$.12 per kWh.

For more information, visit www.ftc.gov/energy.

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



INSTALLATION





Sleeve	Height Inches	Width Inches	Depth with Front Inches	Shell Depth to Louvers Inches	Minimum Extension Into Room*	Minimum Extension Outside * Inches	Window Width INCHES		In-wall Installation Finished Hole Inches			Carton Dimensions Inches		
			A	B	Inches	Inches	Minimum**	Maximum	Height	Width	Max. Depth C	Height	Width	Depth
Q	14 1/4"	19 3/4"	21 3/8"	8 1/2"	5 1/2"	10 3/4"	22"	42"	14 1/2"	20"	8 1/2"	18 3/4"	22"	25 1/2"
S	15 15/16"	25 15/16"	29"	8 3/4"	5 3/4"	16 15/16"	27 3/8"	42"	16 3/16"	26 3/16"	7 3/8"	19"	29"	34 1/2"
M	17 15/16"	25 15/16"	29"	8 3/4"	5 3/4"	16 15/16"	27 3/8"	42"	18 3/16"	26 3/16"	7 3/8"	21"	29"	34 1/2"
L	20 3/16"	28"	35 1/2"	16 1/2"	5 3/8"	18 15/16"	29 7/8"	42"	20 3/8"	28 1/4"	15 1/8"	24 1/2"	31 5/8"	38 7/8"

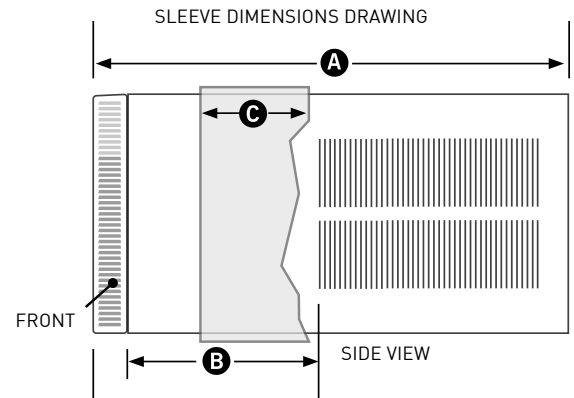
* Minimum extensions when mounted in a window.

** Minimum widths achieved using one side curtain assembly as opposed to both in a standard installation.

NOTE: S, M and L sleeves may be installed in window with no side kits if properly installed.

CIRCUIT RATING/BREAKER/POWER CORD

Friedrich Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Power Cord Length (ft.)	Wall Outlet Appearance
ALL KCQ MODELS, KEQ08A11A, KCS08A10A, KCS10A10A, KCS12A10A and KCS14A10A, KHS10A10A, KCM14A10A.	125V - 15A	5 - 15P	6	
KCS12A30A and KCS16A30A, KCM18A30A and KCM21A30A.	250V - 15A	6 - 15P	6	
KCL24A30A and KCL28A30A, KES12A33A and KES16A33A, KHS12A33A.	250V - 20A	6 - 20P	6	
KCL36A30A, KEM18A34A and KCL24A35A and KEL36A35A, KHM18A34A and KHL24A35A.	250V - 30A	6 - 30P	6	



ROOM AIR CONDITIONER SIZING GUIDE

Area to be Conditioned in sq. ft.	Approximate Cooling Btu Required
100 - 150	5000
150 - 250	6000
250 - 300	7000
300 - 350	8000
350 - 400	9000
400 - 450	10000
450 - 550	12000
550 - 700	14000
700 - 1000	18000
1000 - 1200	21000
1200 - 1400	23000
1400 - 1500	24000
1500-2000	30000
2000-2500	34000

Based on normal room insulation, average number of sun exposed windows and two person occupancy.

- If heavily shaded**
reduce cooling Btus required by 10%
- If very sunny**
increase cooling Btus required by 10%
- Add 500 Btus per person for **more than 2 people**
- Add 4,000 Btus if **the area is a kitchen**

Premium Carbon Filters

Remove odors and VOCs [volatile organic compounds]. Achieve up to a MERV 6 rating when used with standard filter. 3 pack

Model	Kit No.
KCQ and KEQ	KWCFQ
KCS, KES and KHS	KWCFS
KCM, KEM and KHM	KWCFM
KCL, KEL and KHL	KWCFL



Window Mounting Kits: Kühl+

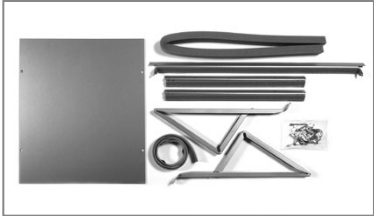
Window kits are included with cooling only models, but are an accessory item for Kühl+ heat/cool models. Window kits are required for installation of Kühl+ models in a window.

Heat/Cool Models	Kit No.	Johnstone SKU
KEQ08A11A*	KWIKQB	B85-673
KES12A33A, KES16A33A, KHS10A10A and KHS12A33A.	KWIKSB	B85-674
KEM18A34A and KHM18A34A.	KWIKMB	B85-675
KEL24A35A, KEL36A35A and KHL24A35A.	KWIKLB	B85-676

* KEQ08A11A window kit KWIKQA does not include window brackets.



KWIKQB



KWIKSB, KWIKMB, KWIKLB

Chill® Premier

HOME OR AWAY, YOU'RE IN CONTROL WITH THE FRIEDRICHGO™ APP.

Integrated Wi-Fi control from your smartphone. Also compatible with Amazon Alexa and Google Home.

Connect in minutes

It's easy with our simplified set up process

Easily set your home, away, and night time preferences

Create a custom cooling schedule that fits your lifestyle

You're in control anytime, anywhere

Power your unit on and off, change temperature, system mode, and adjust fan speeds no matter where you are

Why FriedrichGo™?

By maintaining even temperatures with centralized controls, you reduce wasted energy and lower utility and maintenance costs while extending the life of your equipment.



Quietmaster®
technology



Control
with App



Save big
on energy



Voice command
compatible

Chill® Premier

Control Features

- Built-in Wi-Fi control on the go with the FriedrichGo™ App
- Smart home / voice command device compatability (Amazon Alexa and Google Home)
- 24-hour timer
- Remote Control

QuietMaster Technology

- Heavy duty insulation on inner wall for sound absorption
- Stiffened sheet metal casing to block external noise
- Wide air discharge vents optimize airflow and minimize front panel noise
- Counterweights dampen vibration and decrease sound

Earth Friendly

- ENERGY STAR® qualified models
- Money Saver® setting saves money by operating the fan only when cooling

Comfort & Convenience

- 3 cooling and fan-only speeds, plus auto fan
- Unique sleep setting
- Auto restart saves settings if power is interrupted
- 8-way air flow control
- Washable, antimicrobial air filter

Installation Features

- CCW and CEW models have slide-out chassis for easy removal for maintenance and service
- CCF models feature one-piece frame (fixed chassis) for simplified and fast installation
- Includes standard installation hardware
- Expandable side curtains



Easy-to-use remote control



QuietMaster® technology

Building the quietest air conditioners begins with the design process and continues through the selection of superior components and materials.

It is shaped by skilled manufacturing and refined through on-going product testing in our engineering lab.

The result is a noticeably quieter cooling and heating experience, as much as 25% quieter than competitor's products.

Model	Johnstone SKU	Cooling Btu	Heating Btu	Volts Rated	Cooling Amps	Cooling Watts	EER	CEER	Estimated Yearly Energy Cost	Moisture Removal- Pints/HR	Refrigerant	CFM	Wt. Net/Ship Lbs.
FIXED CHASSIS, COOL ONLY (WINDOW INSTALLATION ONLY)													
★ CCF05A10A	B61-539	5200	—	115	4.3	459	12.1	12.1	\$42	1.0	R410A	141	44/51
★ CCF06A10A	B61-540	6000	—	115	4.3	492	12.1	12.1	\$49	0.9	R410A	141	44/51
★ CCF08A10A	B61-541	8000	—	115	5.8	661	12.0	12.0	\$65	1.0	R410A	206	51/57
★ CCF10A10A	B61-542	10000	—	115	7.3	826	12.0	12.0	\$81	1.2	R410A	282	64/73
★ CCF12A10A	B61-543	12000	—	115	8.6	992	12.0	12.0	\$98	1.5	R410A	270	73/82
SLIDE OUT CHASSIS, COOL ONLY													
★ CCW06B10A	B62-669	6000	—	115	4.3	492	12.1	12.1	\$54	0.9	R410A	200	44/51
★ CCW08B10A	B62-670	8000	—	115	5.8	661	12.0	12.0	\$69	1.0	R410A	250	44/61
★ CCW10B10A	B62-671	10000	—	115	7.3	826	12.1	12.0	\$95	1.2	R410A	300	51/68
★ CCW12B10A	B62-672	12000	—	115	8.6	992	12.0	12.0	\$107	1.5	R410A	330	64/86
★ CCW15B10A	B62-673	15000	—	115	11.0	1270	11.8	11.8	\$125	2.0	R410A	400	73/93
★ CCW18B30A	B62-674	18000	—	230	7.1	1525	11.8	11.8	\$149	2.7	R410A	520	106/136
★ CCW24B30A	B62-675	24000	—	230	10.2	2308	10.3	10.3	\$227	2.7	R410A	590	117/144
SLIDE OUT CHASSIS, HEAT & COOL													
CEW08B11A	B62-676	8000	4200	115	6.3	670	11.0	11.0	\$61	2.1	R410A	250	44/61
CEW12B33A	B62-677	12000	10600	230	4.8	1060	11.0	10.9	\$96	3.3	R410A	265	64/86
CEW18B33A	B62-678	18000	10600	230	7.2	1600	11.0	11.0	\$159	5.5	R410A	430	106/136
CEW24B33A	B62-679	24000	10600	230	10.6	2340	10.1	10.1	\$222	6.5	R410A	560	117/144



INSTALLATION

					Window Width Inches		Thru-the-wall Finished Hole Inches		Carton Dimensions Inches		
Model	Height Inches	Width Inches	Depth Inches	Depth From Front to Louvers	Minimum*	Maximum	Height	Width	Height	Width	Depth
CCF05A10A, CCF06A10A,	13 3⁄8	18 5⁄8	15 5⁄8	—	23	36	Window Installation Only		14 1⁄2	21 1⁄2	17 3⁄4
CCF08A10A	13 3⁄8	18 5⁄8	17 5⁄8	—	23	36			14 1⁄2	21 1⁄2	18 1⁄2
CCF10A10A, CCF12A10A	15 1⁄8	19 7⁄8	21 3⁄4	—	26	36			17 1⁄2	21 7⁄8	23 3⁄4
CCW06B10A, CCW08B10A, CEW08B11A, CCW10B10A, CCW12B10A, CEW12B33A,	14 5⁄8	19 3⁄4	23 3⁄4	9 1⁄2	26	36	14 7⁄8	20	17	22	26
CCW15B10A, CCW18B30A, CEW18B33A	18	23 7⁄8	25 3⁄8	8 3⁄16	28	41	18 1⁄4	24	19 3⁄8	25 5⁄8	29 5⁄8
CCW24B30A, CEW24B33A	18 5⁄8	27	26 5⁄8	10 5⁄8	30	41	18 7⁄8	27 1⁄4	19 1⁄2	29 1⁄4	31

All Chill Premier CCF models are designed for window installation only.

* Minimum widths achieved using one side curtain assembly as opposed to both in a standard installation.

CIRCUIT RATING/BREAKER

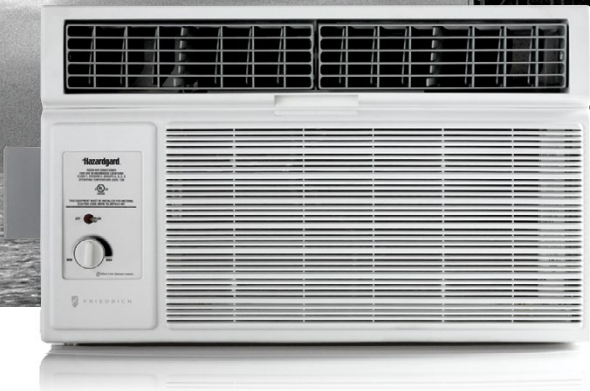
Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Power Cord Length (ft.)	Wall Outlet Appearance
ALL CCF MODELS. CCW06B10A, CCW08B10A, CCW10B10A, CCW12B10A, CEW08B11A	125V - 15A	5-15P	6	
CCW15B10A			5.5	
CCW18B30A, CCW24B30A	250V - 20A	6-20P	4	
CEW12B33A, CEW18B33A, CEW24B33A			6	



Hazardgard®
Engineered to perform in the harshest conditions.


Hazardgard meets
T4 temperature
classification

- Unit surface temperatures will not rise above 135° C/275° F.
- Operates at low ambient conditions without freezing at outdoor ambient temperatures as low as 7° C/45° F.
- Tolerates higher outdoor temperatures up to 55° C /130° F.



For more than 30 years, industrial professionals have trusted Hazardgard to deliver safe and reliable cooling in the most extreme conditions. Hazardgard is specifically designed to cool laboratories, control rooms, living quarters, storage areas and other enclosures situated in hazardous locations; where specific volatile flammable liquids or gases are handled or used within enclosed containers or systems.

Hazardgard® is rated for these conditions:

Model	Hazardous Location Classification: Gases	
SH15M30A SH20M30SA SH20M30B SH20M50B SH24N30A	National Electrical Code, NFPA 70 ARTICLE 501: Class 1, Division 2, Group A / B / C / D , Temperature Class T4 ARTICLE 505: Class 1, Zone 2, Group II C / IIB / II A , Temperature Class T4	
		

For global applications, Hazardgard cooling capacities are tested in a certified laboratory at moderate (T1*) and hot (T3*) climate conditions in accordance with SASO (Saudi Arabian Standards Organization) Standard 2681. SASO Standard 2681 is adopted from ISO Standard 5151 for testing and rating for performance of non-ducted air conditioners and heat pumps. Model SH20M30SA is KSA Registered in accordance with SASO2681 and meets SASO 2663 Energy Efficiency standard.

The Friedrich Advantage Reliable Design Backed by Robust Engineering

Quality

Friedrich is an established player in the air conditioning industry and is known for manufacturing quality products.

Product Reliability

Used across the globe, Hazardgard is a tested and reliable product and not a quick-fix, job shop alteration.

Durability

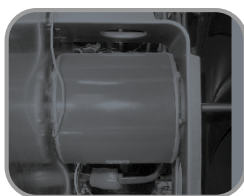
Robust engineering, commercial grade components and extensive field testing provide the durability and safety required in hazardous locations.

Availability

Off the shelf models allow for efficient manufacturing, shorter lead times and standardized component parts.

Durability & Reliability

- **Permanent split capacitor motor**
- **Hermetically sealed refrigeration system**
- **Environmentally sealed on/off switch and gold plated contacts** in thermostat for corrosion resistance
- **Solid-state control relays** for compressor and fan operation
- **Commercial grade, enclosed fan motor with hermetically sealed overload** for arc-free operation
- **Direct-wired** (field supplied), 15-amp circuit with time delay fuse that will tolerate current surge without tripping the breaker
- **Powder Coated 22-gauge, G60 steel air conditioner cabinet** for corrosion protection and to withstand years of hard use
- **Stainless Steel Fan Shaft**
- **Coated Coils** for Corrosion Protection

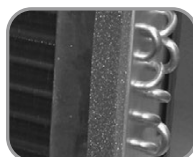


Coated Coils for Corrosion Resistance

- ElectroFin® 5-stage, immersion ecoat process, or Diamonblue Advanced Corrosion Protection® on 100% of metallic surfaces on the outdoor coil provides outstanding corrosion resistance protection and extends the life of the unit, especially in coastal or corrosive environments.

Diamonblue Advanced Corrosion Protection®

- STANDARD ON ALL MODELS (except SH24N30A, see below)
- Anti-corrosive, hydrophilic coating



5-STAGE **eccoat**
Corrosion Protection

ElectroFin® 5-stage, Immersion Ecoat Benefits:

MODEL SH24N30A ONLY

- Excellent adhesion characteristics
- Less than 1% thermal degradation
- Outstanding chemical resistance
- Passed 6048 hrs.ASTM B-117 Salt Spray

MEETS THE FOLLOWING:

- MIL-C-46168 Chemical Agent Resistance
-DS2, HCl Gas
- CID A-A-52474A (GSA)
- MIL-STD 810F, Method 509.4 (Sand and Dust)
- MIL-P-53084 (ME)-TACOM Approval
- MIL-DTL-12468 Decontamination Agent (STB)
- DPG (Douglas Proving Grounds) Soil & Water Exposure Tests
- GM9540P-97 Accelerated Corrosion Test (120 cycles)
- ASTM B117-G85 Modified Salt Spray (Fog) Testing-2,000 hours
- ASTM B117 Salt Spray (tested by ARL for Lockheed Martin)



Performance in Extreme Conditions

- **Hot gas bypass** for cooling operation at low ambient temperatures, down to 45°F / 7°C without freezing
- **Designed to tolerate high ambient temperatures**, allowing units to operate in T3 conditions



Engineered to perform in the harshest environments

- Offshore oil rigs, on-shore oil company offices and refineries
- Petrochemical sites
- Propane fill-up stations
- Paint and varnish storage or processing plants
- Grain alcohol processors or storage sites
- Plant areas using strong solvents or chemicals
- Munitions plants or armories
- PVC or plastics plants and processing points
- Recycling plants
- Furniture refinishing workshops
- Office complexes where methane is a by-product
- Hazardous materials storage

HAZARDGARD® SPECIFICATIONS

ModelJohnstone SKU		Electrical Characteristics					Circuit Rating Breaker or T - D Fuse	Energy Efficiency Ratio	Moisture Removal	Air Circulation	Refrigerant
		Cooling Capacity	Volts	Cooling	Cooling						
		Btu/Hr.	Rated	Amps	Capacity (kW)	Volts - Amps					
60 HERTZ											
SH15M30A	B91-438	15700/15700	230/208	7.9/7.8	4.60/4.10	250V-15	9.7/9.7	4.0	375	R-410A	
SH20M30B	B91-439	21000/21000	230/208	10.5/9.4	6.15/6.15	250V-15 (230V) / 250V-20 (208V)	9.7/9.6	5.5	375	R-410A	
SH20M30SA		19000/19000	220	8.5	5.57	250V-20 (230V) / 250V-20 (208V)	9.7/9.6	5.5	375	R-410A	
SH24N30A	B62-683	23500/23000	230	11.8	6.8	250V-20	9.7/8.5	8.0/7.5	385	R-410A	
50 HERTZ											
SH20M50B	B62-682	21000/19100	240/220	11.6/10.3	6.15/6.15	250V-15	8.8/8.8	7.0/7.0	425	R-410A	

INSTALLATION INFORMATION

Model	Johnstone SKU	Dimensions Inches						Window Width Inches		In-Wall Installation Finished Hole Inches			Weight Lbs.	
		Height	Width	Depth with Front A	Depth J Box to Louvers B	Minimum Extension Into Room	Minimum Extension Outside	Min.	Max.	Height	Width	Max. Depth C	Net	Shipping
SH15M30A	B91-438	15 15/16"	25 15/16"	27 3/8"	6"	3 1/16"	16 15/16"	27 7/8"	42"	16 3/16"	26 3/16"	6"	140	167
SH20M30B	B91-439	17 15/16"	25 15/16"	27 3/8"	6"	3 1/16"	16 15/16"	27 7/8"	42"	18 3/16"	26 3/16"	6"	166	170
SH20M30SA		17 15/16"	25 15/16"	27 3/8"	6"	3 1/16"	16 15/16"	27 7/8"	42"	18 3/16"	26 3/16"	6"	166	170
SH20M50B	B62-682	17 15/16"	25 15/16"	27 3/8"	6"	3 1/16"	16 15/16"	27 7/8"	42"	18 3/16"	26 3/16"	6"	171	175
SH24N30A	B62-683	17 15/16"	25 15/16"	27 3/8"	6"	3 1/16"	16 15/16"	27 7/8"	42"	18 3/16"	26 3/16"	6"	180	185

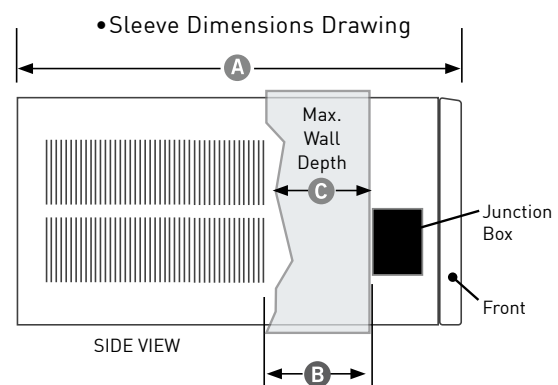
Due to continuing engineering research and technology, specifications are subject to change without notice.

U.S. MAXIMUM outdoor ambient operating temperature is 115°F. (46°C) MAXIMUM TEMPERATURE RATING FOR CLASS 1, DIVISION 2, GROUPS A, B, C, D.

Capacity and efficiency values at each climate conditions are available upon request.

NOTE: Hazardgard unit must be hard-wired.

Manufactured under Design Patent DES 368, 306 decorative front; Utility Patent 5, 662, 058.



WallMaster®

HOME OR AWAY, YOU'RE IN CONTROL WITH THE FRIEDRICHCONNECT® APP.

Integrated Wi-Fi control from your smartphone. Also compatible with Amazon Alexa and Google Home.

Connect in minutes

It's easy with our simplified set up process

Easily set your home, away, and night time preferences

Set a seven-day custom schedule that fits your lifestyle

You're in control anytime, anywhere

Power units off and on, increase or decrease a unit's set point temperature, change system cool, fan, heat, and auto settings and fan speeds

Controlling multiple units is simple

With our advanced grouping program, you can control multiple units to work independently or as a single system. You can even invite other users to manage one or more of your units



QuietMaster®
technology



Control
with App



Save big
on energy



Voice command
compatible

UNRIVALED QUALITY

WallMaster® is built to perform in the extreme conditions of commercial applications, but it's also perfect for today's home with the convenience and simple control today's consumers demand.

- ❶ Dense, sound-blocking insulation
- ❷ Quiet rotary compressor mounted on large rubber grommets
- ❸ Steel inner walls
- ❹ Totally-enclosed commercial grade fan motor
- ❺ Insulated air plenum prevents outside air and noise intrusion
- ❻ Two resilient rings on motor mount prevent metal-to-metal contact, which eliminates extra vibration and noise.
- ❼ Solid steel blower wheel housing for maximum sound reduction.



QuietMaster® technology

Building the quietest air conditioners begins with the design process and continues through the selection of superior components and materials.

It is shaped by skilled manufacturing and refined through on-going product testing in our engineering lab.

The result is a noticeably quieter cooling and heating experience, as much as 40% quieter than competitor's products.

OPTIONAL WALLMASTER® ACCESSORIES

WSE Sleeve/Exterior Grilles



Standard Grille

Premium, expanded metal grille with powder coat paint. Ships with WSE sleeve.



Optional Architectural Grille- AG

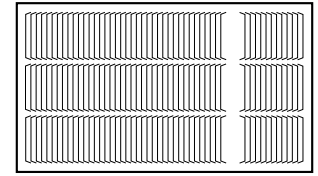
Premium extruded aluminum grille.

IMPORTANT:

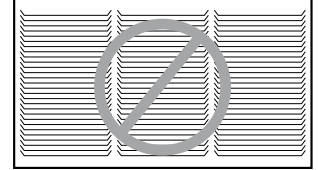
Operating the air conditioner with incorrect rear grille or without Baffle Adapter Kit (on 19 3/4" deep sleeve) will recirculate discharge air and cause compressor overload to trip.

This will cause the unit to shut down temporarily and may lead to premature compressor failure.

CORRECT Vertical Louvers



INCORRECT Horizontal Louvers

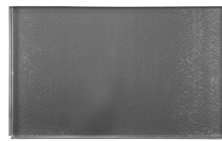


WSE Wall Sleeve

Ships with standard grille (shown above) and standard galvanized steel inner panel and painted steel outer panel.



WSE sleeve



Steel inner panel



Outer weather panel

Installation Accessories

DK / Drain Kit

Installed at the back of the unit and allows for attachment to condensate disposal system, if necessary or desired.



IDK / Internal Drain Kit

New construction applications where a condensate drain system has been built into the wall interior.



BAK / Baffle Adapter Kit

Necessary when installing in a sleeve deeper than 16 3/4" deep, such as Fedders B sleeve (19 3/4" deep).



A perfect fit in Fedders A & B* 27" sleeves

Replace old, inefficient 27" sleeve units with WallMaster



Dimensions	Friedrich WSE Sleeve	Fedders A Sleeve	Fedders B Sleeve*
Height (inches)	16 3/4"	16 3/4"	16 3/4"
Width (inches)	27"	27"	27"
Depth (inches)	16 3/4"	16 3/4"	19 3/4"

*Installation in Fedders B sleeve requires a baffle adapter kit-BAK.

Chassis Dimensions

Height	Width	Depth	Height of Front	Width of Front	Depth with Front	Minimum Extension Into Room with Front
15 3/4"	26 1/2"	21"	17 1/4"	27 1/2"	23 1/4"	7 1/2"

WSE Sleeve Dimensions

Height	Width	Depth	Depth with Front	Minimum Extension Outside	Thru-the-wall Finished Hole
16 3/4"	27"	16 3/4"	24 1/4"	9/16"	Height: 17 1/4", Width: 27 1/4", Max. Depth: 15 5/16"

NOTE: Chassis requires WSE sleeve (sold and shipped separately)

Model	Johnstone SKU	Cooling Btu	Heating Btu	Volts Rated	Cooling Amps	Cooling Watts	Heating Watts	Heating Amps	EER	CEER	Estimated Yearly Energy Cost	COP	Moisture Removal Pints per Hr.	CFM	Wt Lbs Net/Ship
Cooling Only															
★ WCT08A10A	B61-544	8000	—	115	7.0	748	—	—	10.7	10.6	\$73	—	1.8	250	93/97
★ WCT10A10A	B61-545	10000	—	115	9.3	935	—	—	10.7	10.6	\$92	—	2.4	250	103/107
★ WCT12A10A	B61-546	12000	—	115	11.1	1250	—	—	9.6	9.5	\$122	—	3.8	295	101/105
★ WCT10A30A	B61-547	10000	—	230	4.4	935	—	—	10.7	10.6	\$92	—	2.7	275	112/116
WCT12A30A	B61-548	12000	—	230	5.4	1250	—	—	9.6	9.5	\$123	—	3.8	300	109/113
WCT16A30A	B61-549	15400	—	230	7.5	1638	—	—	9.4	9.3	\$161	—	4.8	290	119/123
Cooling with Heat Pump															
WHT12A33A	B61-550	11100	8900	230	5.5	1181	1087	5.0	9.4	9.3	\$102	2.4	3.1	275	111/115
Cooling with Electric Heat															
WET10A33A	B61-551	10000	11000	230	4.4	935	3550	16.0	10.7	10.6	\$92	—	2.7	260	104/108
WET12A33A	B61-552	12000	11000	230	5.4	1250	3550	16.0	9.6	9.5	\$123	—	3.8	290	107/111
WET16A33A	B61-553	15400	11000	230	7.5	1638	3550	16.0	9.4	9.3	\$161	—	4.8	290	119/123

Heat Pump heating information (shown in red) indicates heat pump heating performance. Electric Heat heating information (shown in red) indicates electric heat strip performance. For Heat Pump electric heating performance refer to corresponding Electric Heat model.

HEATING PERFORMANCE: Change-over from heat pump operation to resistance operation on models indicated is automatic at a preset outside ambient temperature of approximately 35°F.




Calculate the heat loss of the space to be heated. As long as the heat loss does not exceed the resistance heating capacity rating of the unit, the heating performance will be satisfactory.

Note: all models will produce condensate. If condensate disposal is desired, an optional drain kit is available.

DEFROST CONTROL: Initiated at 30°F (outdoor coil temperature) and terminated at 43°F (outdoor coil temperature). During defrost, the compressor stops and the electric heat starts, then operates with the fan to maintain indoor comfort. Below 43°F, the unit remains in electric heat mode.

DEFROST DRAIN: Drain automatically opens at approximately 50°F to prevent condensate from freezing inside drain pan.

PLUG FACE/CIRCUIT RATING

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Power Cord Length (ft.)	Wall Outlet Appearance
WCT08A10A, WCT10A10A and WCT10A30A	125V - 15A	5 - 15P	6	
WCT12A10A., WCT12A30A and WCT16A30A.	250V - 15A	6 - 15P	6	
WHT12A33A, WET10A33A and WET12A33A. WET16A33A.	250V - 20A	6 - 20P	6	

Model	Carton Dimensions		
	Height	Width	Depth
WallMaster®			
WSE Sleeve	18"	27 1/4"	18"
Chassis	19 3/8"	30 5/8"	27 1/2"

Power cords are located on front left of WallMaster models.

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

As an ENERGY STAR® partner, Friedrich Air Conditioning Co. has determined that the selected ENERGY STAR® models meet the ENERGY STAR® guidelines for energy efficiency.

EER is the unit's Energy Efficiency Ratio; CEER is the unit's Combined Energy Efficiency Ratio.

Your energy costs will depend on your utility rates and use. The estimated energy cost is based on a electricity cost of \$.12 per kWh.

For more information, visit www.ftc.gov/energy.



Uni-Fit®

HOME OR AWAY, YOU'RE IN CONTROL WITH THE FRIEDRICHGO™ APP.

Integrated Wi-Fi control from your smartphone. Also compatible with Amazon Alexa and Google Home.

Connect in minutes

It's easy with our simplified set up process

Easily set your home, away, and night time preferences

Create a custom cooling and heating schedule that fits your lifestyle

You're in control anytime, anywhere

Power your unit on and off, change temperature, system mode, and adjust fan speeds no matter where you are

Why FriedrichGo™?

By maintaining even temperatures with centralized controls, you reduce wasted energy and lower utility and maintenance costs while extending the life of your equipment.



QuietMaster®
technology



Control
with App



Save big
on energy



Voice command
compatible

QUALITY AND CONVENIENCE

Control Features

- Built-in Wi-Fi control on the go with the FriedrichGo App
- Smart home / voice command device compatibility (Amazon Alexa and Google Home)
- 24-hour timer
- Remote Control

QuietMaster Technology

- Solid steel inner wall
- Advanced airflow design
- High density insulation and foam for sound absorption
- Aesthetically engineered to block indoor noise
- Counterweights for vibration dampening

Installation Features

- Universal fit decorative trim ring
 - Chassis designed to fit multiple existing sleeves from 24 1/2" to 27"
- ### Comfort & Convenience
- 3 cooling and fan-only speeds
 - Unique sleep setting
 - Auto restart if power is interrupted
 - 8-way air flow control
 - Washable, antimicrobial air filter

Earth Friendly

- ENERGY STAR® qualified models
- Money Saver® setting saves money by operating the fan only when cooling



Easy-to-use remote control



QuietMaster® technology

Building the quietest air conditioners begins with the design process and continues through the selection of superior components and materials.

It is shaped by skilled manufacturing and refined through on-going product testing in our engineering lab.

The result is a noticeably quieter cooling and heating experience, as much as 25% quieter than competitor's products.

Universal fit for easy replacement in existing 24 1/2", 26" or 27" sleeves, including sleeves listed below.

Sleeve Dimensions	Friedrich USC Sleeve	Amana	Carrier (51S Series)	Fedders/ Emerson/ Friedrich WSE	Emerson/ Fedders	GE/ Hotpoint	Whirlpool	White-Westinghouse/ Frigidaire/ Carrier (52F Series)
Height	15 1/2"	15 5/8"	16 7/8"	16 3/4"	15 3/4"	15 5/8"	16 1/2"	15 1/4"
Width	25 7/8"	26"	25 3/4"	27"	26 3/4"	26"	25 7/8"	25 1/2"
Depth	16 3/4"	16 7/8"	18 5/8"	16 3/4" or 19 3/4"	15"	16 7/8"	17 1/8" or 23"	16", 17 1/2" or 22"

NOTE: Chassis requires USC sleeve for new installations (sold and shipped separately).



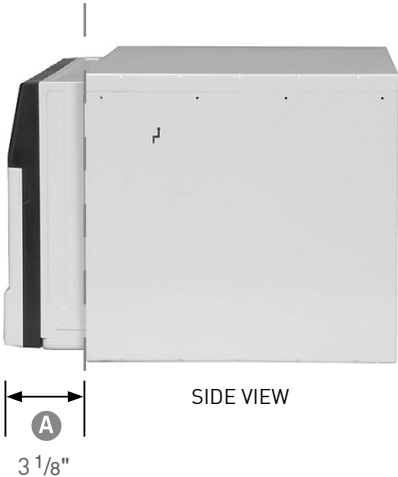
IMPORTANT:

1" gap on sides and
1/2" gap at top allows
installation into varying
sleeve sizes.

The gap can be covered
by the **decorative trim
ring** that fits over the
chassis front. Trim ring
comes standard with
chassis.

IMPORTANT:

CHASSIS EXTENSION INTO THE ROOM
UCT and UET chassis w/ front fully installed into
USC sleeve
extends into the room as shown at right **A**.



UNI-FIT® OPTIONAL ACCESSORIES

USC Sleeve

An existing or new sleeve is required for installation. The Friedrich USC sleeve ships with the accessories needed for installation in new construction, or installation into an existing sleeve.

INCLUDED WITH USC SLEEVE

USC wall sleeve ships with weather panels (2) and grille. Sleeve is shown at right with:

- 1. Painted steel inner panel
- 2. Painted steel outer panel
- 3. Painted steel standard grille



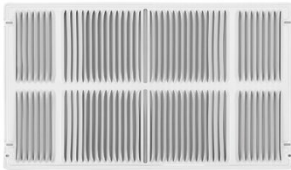
USC sleeve



Inner weather panel



Outer weather panel

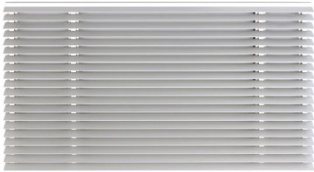


Standard grille

Optional Grille

ARCHITECTURAL GRILLE-UXAA

Optional extruded brushed aluminum grille.



UXAA, optional architectural grille

IMPORTANT:

When installing into an existing sleeve, consult Installation Section of your Installation/Operation Manual to determine whether or not the grille needs to be replaced and/or a baffle adapter (included with chassis) should be used.

Sleeve/Chassis Dimensions





Model	Dimensions							Thru-the-wall Finished Hole		
	Height	Width	Depth	Depth with Front	Minimum Extension Into Room	Minimum Extension Outside		Height	Width	Max. Depth
Uni-Fit®										
USC Sleeve	15 1/2"	25 7/8"	16 3/4"	20 1/2"	-	1/2"		15 3/4"	26 1/8"	16 1/4"
UCT, UET Chassis	14 1/2"	24 1/4"	-	20 5/16"	3 3/4"	-		-	-	-

UNI-FIT® SPECIFICATIONS

★ ENERGY STAR® models

Model	Johnstone SKU	Cooling Btu	Heating Btu	Volts Rated	Cooling Amps	Cooling Watts	Heating Amps	Heating Watts	EER	CEER	Estimated Yearly Energy Cost	Moisture Removal Pints/Hr	Refrigerant	CFM	Net Weight Lbs	Ship Weight Lbs
UNI-FIT®																
Cool Only																
★ UCT08A10A	B61-554	8000	—	115	6.9	755	—	—	10.7	10.6	\$69	0.8	R410A	265	64	78
★ UCT10A10A	B61-555	10000	—	115	8.3	940	—	—	10.7	10.6	\$85	1.25	R410A	247	74	86
★ UCT10A30A	B61-556	10000	—	230	4.5	940	—	—	10.7	10.6	\$85	1.25	R410A	265	74	86
★ UCT12A10A	B61-557	12000	—	115	10.1	1130	—	—	10.6	10.5	\$102	1.7	R410A	276	75	88
★ UCT12A30A	B61-558	12000	—	230	5.4	1130	—	—	10.6	10.5	\$102	1.7	R410A	265	75	88
UCT14A30A	B61-559	14000	—	230	7.2	1490	—	—	9.4	9.3	\$135	2.15	R410A	265	76	89
Cool with Electric Heat																
UET08A11A	B61-560	8000	4200	115	7.2	810	12.5	1320	9.7	9.6	\$74	0.75	R410A	265	66	79
UET10A33A	B61-561	10000	10600	230	4.9	1030	15	3500	9.7	9.6	\$93	1.2	R410A	276	75	87
UET12A33A	B61-562	12000	10600	230	5.9	1230	15	3500	9.7	9.6	\$111	1.65	R410A	276	76	89
UET14A33A	B61-563	14000	10600	230	7.2	1490	15	3500	9.4	9.3	\$135	2.15	R410A	265	77	90

PLUG FACE/CIRCUIT RATING

Uni-Fit® Model Number	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Power Cord Length (ft.)	Wall Outlet Appearance
UCT08A10A, UCT10A10A, UCT12A10A	125V - 15A	5 - 15P	6	
UCT10A30A, UCT12A30A, UCT14A30A	250V - 15A	6 - 20P	6	
UET08A11A	125V - 15A	5 - 15P	4.75	
UET10A33A, UET12A33A, UET14A33A	250V - 20A	6 - 20P	4.75	



Uni-Fit Electric Heat models utilize an electric heat strip to provide warm air quickly. They can be used for primary heating in moderate climates and as supplemental heating in colder climates. They are ideal for rooms that are always 'too cold in winter'.

Your Friedrich dealer or distributor can assist you in selecting the right unit for your particular climate and application.

Power cords are located on front left of Uni-Fit models.

CARTON DIMENSIONS

Model	Carton Dimensions Inches		
	Height	Width	Depth
Uni-Fit®			
USC Sleeve	17 7/8"	28"	19 1/4"
UCT, UET Chassis	16 3/8"	27 3/4"	26 5/8"

As an Energy Star® partner, Friedrich Air Conditioning Co. has determined that the selected Energy Star® models meet the Energy Star® guidelines for energy efficiency. EER is the unit's Energy Efficiency Ratio; CEER is the unit's Combined Energy Efficiency Ratio.

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

Your energy costs will depend on your utility rates and use. The estimated energy cost is based on a electricity cost of \$.12 per kWh.

For more information, visit www.ftc.gov/energy.



ZoneAire®

Intake & exhaust hoses provide up to 40% faster cooling.



Comfort & Convenience

- 3-IN-1 SYSTEM: Air conditioner, dehumidifier and fan
- 4-IN-1 SYSTEM: Air conditioner, heater (heat pump), dehumidifier and fan (ZHP14DA)
- Auto swing air louvers for even air distribution
- Self-evaporative condensate system - no bucket to empty
- Condensate overflow protection- the unit will automatically shut off if tank should become full
- LCD remote control
- 3-speed fan
- Easy-access, washable antimicrobial filters
- Auto restart after power outage
- Built-in drain pump to remove condensate in heat pump mode (ZHP14DA)
- Removes up to 72 pts./day when used as a dehumidifier

Installation Features

- Quick installation - Snap-in hoses and 115v operation mean quick start-up and cooling
- Easy-roll casters for portability
- All installation accessories included
- Window kit fits vertical and horizontal standard windows and some casement windows
- 6 ft. long power cord

NOTE: Air conditioners will provide cooling at outdoor temperatures down to 41°F and heat pump will provide heating at outdoor temperatures down to 14°F with single hose installation.

PORTABLE MODEL COMPARISON

Friedrich Model	DUAL HOSE		SINGLE HOSE
	ZCP12DA	ZHP14DA	P12SA
Johnstone SKU	B61-571	B61-572	B60-480
FEATURE			
Heating function	—	Y	Y
Coverage (Sq. Ft.)	up to 400	up to 500	up to 400
Built-in drain pump	—	Y	—
Condensate overflow protection- Auto shutoff	Y	Y	Y
Auto restart after power outage	Y	Y	Y
Built-in hose storage	—	—	Y
Easy-roll casters	Y	Y	Y
Window kit included	Y	Y	Y



ZCP12DA, ZHP14DA

ZoneAire® Compact

Small and compact for fast setup and easy storage.

Comfort & Convenience

- 3-in-1 system: Air conditioner, dehumidifier and heater
- One side offers cooling; the other creates heat - simply turn the unit around and attach the hose
- Super portability with built-in hose storage compartment
- Easy-access, washable antimicrobial dual filters
- 4-speed fan with Auto setting that maintains your ideal temperature
- Auto restart after power outage
- LCD remote control
- Unique Sleep Control function increases temperature 2 degrees every 4 hours

Installation Features

- Quick installation - Snap-in hoses and 115v operation mean quick start-up and cooling
- Easy-roll casters for portability
- Small footprint, takes up minimal space - only 17" wide
- All installation accessories included
- 7 ft. long power cord



Controls feature large LED display and rotary dial fan and temperature adjustment



P12SA



Bonus Heat

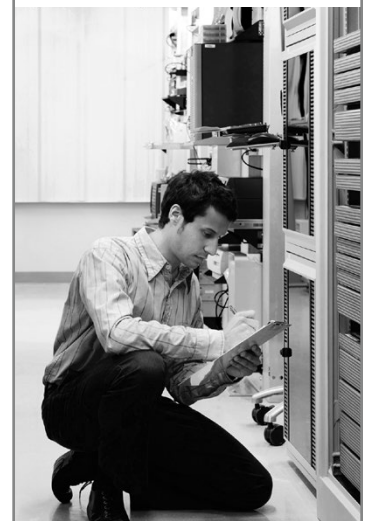
Easily change from standard cooling to heating by turning the unit around and attaching the hose.

Portable Applications

- Supplemental or emergency cooling or heating anywhere
- Computer rooms
- Guard buildings
- Construction trailers/ RVs
- Workshops and garages
- Home offices
- Dorm rooms
- Bedrooms, attics and basements
- Sunrooms/enclosed patios

IDEAL FOR AREAS WITH ADDED HEAT LOADS

You can quickly set up supplemental or emergency cooling for computer rooms.



ZoneAire® Installation Kit

INSTALLATION KIT- Two flexible, heavy duty hoses extend from 24" to 60". The hoses can be vented through a window or through a wall opening to the outside.

WINDOW SLIDER KIT (Included)

Fits HORIZONTAL or VERTICAL WINDOWS

WINDOW OPENING:

Minimum: 26"* Maximum: 46"

* Window slider kit can be trimmed to fit a smaller opening.

ZoneAire® Compact Installation Kit

INSTALLATION KIT- One flexible, heavy duty hose extends from 8" to 46". The hose can be vented through a window or through a wall opening to the outside.

WINDOW SLIDER KIT (Included)



Fits HORIZONTAL or VERTICAL WINDOWS

WINDOW OPENING:

Minimum: 24 1/2"* Maximum: 46"

* Window slider kit can be trimmed to fit a smaller opening.

PORTABLE SPECIFICATIONS

		SINGLE HOSE		DUAL HOSE			
Model		DOE SACC	ASHRAE 128	DOE SACC	ASHRAE 128	DOE SACC	ASHRAE 128
		P12SA	P12SA	ZCP12DA	ZCP12DA	ZHP14DA	ZHP14DA
Johnstone SKU		B60-480	B60-480	B61-571	B61-571	B61-572	B61-572
Cooling	BTUh	6888	12000	7344	12000	8397	14000
Heating	BTUh	7100	12300	—	—	10700	11000
Volts Rated		115		115		115	
Cooling	Amps	9.12	12.86	10.5	10.2	10.8	12.8
Cooling	Watts	1000	1320	1042	1150	1213	1350
Cooling	EER	5.76	9.1	8.4	9.5	7.9	9.9
Cooling	CEER	5.76	9.1	—	5.5	—	6.1
Heating	COP	2.97	3.1	—	—	9.0	2.81
Moisture Removal	Pts./Hr.	2.02	5.3	6.0	4.0	6.0	4.5
Model	CFM	206.3	280	252	240	252	260
Model Dim W x H x D		12 7⁄8" x 31 1⁄8"x 21 1⁄4"		17 5⁄8" x 29 1⁄2" x 16"			
Net Wt	Lbs.	59	57	64.2	64.2	64.2	64.2
Ship Wt	Lbs.	62	62	72	72	88	88
Coverage	Sq. Ft.	Up to 400		Up to 400		Up to 500	
Carton W x H x D		15 7⁄8" x 33 1⁄4" x 25"		20" x 34 1⁄4" x 18 1⁄4"			



PLUG FACE/CIRCUIT RATING

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Wall Outlet Appearance	Power Cord Length
P12SA	125V - 15A	5 - 15P		7 ft.
ZCP12DA, ZHP14DA	125V - 15A	5 - 15P		6 ft.

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

NOTE: Air conditioners will provide cooling at outdoor temperatures down to 41°F and ZHP14DA heat pump will provide heating at outdoor temperatures down to 14°F with single hose installation.

35 & 50 pint capacity with built-in condensate pump



Room Conditions	Small to mid-size space	Mid-size to large space
	100 - 1,000 sq. ft.	1,000 - 2,000 sq. ft.
Damp 💧 Area feels damp and has a musty odor only in humid weather	B62-680 (35 pint)	
Very Damp 💧💧 Area always feels damp & has a musty odor & may exhibit damp spots on walls & floors	B62-680 (35 pint)	
Wet 💧💧💧 Area always feels and smells wet and the walls & floors sweat or seepage is present	B62-680 (35 pint)	B62-681 (50 pint)
Extremely Wet 💧💧💧💧 Area has wet floors or exhibits standing water	B62-680 (35 pint)	B62-681 (50 pint)

Comfort & Convenience:

- Top-mount digital touch controls display room temperature & relative humidity level
- Set humidity level from 30% to 90% RH
- Low temperature operation to 41°F
- Removable condensate bucket with handle
- Washable, slide-out filter
- 24 hr. ON/OFF timer (timer must be set for each use-no memory)
- 2-speed fan
- Automatic defrost cycle
- Auto-restart
- Built-in casters for easy mobility
- 6 ft. power cord

Energy Efficiency:

- ENERGY STAR® models
- Fan cycles off with the compressor

3 Drainage Options:

- Intuitive drain pump operation senses condensate levels and begins draining process as needed. Unit will continue operations after emptying without any manual reset.
All models come with removable condensate bucket (up to 16 pts.)
- Built-in drain pump that can pump condensation vertically or horizontally up to a combined distance of 15 feet
- All models have continuous drainage outlet

Sleek, Clean Modern Design

- Non-louvered front panel has a clean, stylish appearance that doesn't accumulate unsightly dust, pet hair and other household debris.



Built-in drain pump



Slide out condensate bucket




Continuous drain option

DEHUMIDIFIER SPECIFICATIONS

Model Number	D35B1A	D50B1A
Johnstone SKU	B62-680	B62-681
ENERGY STAR®	Yes	Yes
Dehumidification Capacity* (Pints/24 hrs)	35	50
Built-in Drain Pump	Yes	Yes
Drain Pump Hose (Length ft)	16' 9"	16' 9"
Control	Digital	Digital
Power	115V/60HZ	115V/60HZ
Current (Amps)	5.2	8.2
Watts	600	900
Energy Factor (EF), L/kWh**	2.0	2.0
Compressor Type	Rotary	Rotary
Refrigerant Type/Charge amount (Oz)	R-410A / 8.8 Oz	R-410A / 10.9 Oz
Operating Temperature Range	41°F– 90°F	41°F– 90°F
Bucket Capacity (Pints)	16.2 approximate	16.2 approximate
Easy Roll Casters	Yes-built in	Yes-built in
Dimensions (WxHxD)	15" x 23 1/4" x 12"	
Net/Shipping Weight	40.0/45.9	44.3/48.9
Carton Dimensions (WxHxD)	16 1/4" x 24 3/4" x 13 3/4"	

PLUG FACE/CIRCUIT RATING

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA)	Wall Outlet Appearance	Power Cord Length
All models	125V-15A	5-15P		6 FT.

*The rating is expressed in pints per 24 hours.

**Energy Factor: The energy efficiency of dehumidifiers is measured by its energy factor, in liters of water removed per kilowatt-hour (kWh) of energy consumed or L/kWh. In general, a higher energy factor means a more efficient dehumidifier.

As an ENERGY STAR® partner, Friedrich Air Conditioning Co. has determined that the selected ENERGY STAR® models meet the ENERGY STAR® guidelines for energy efficiency.

One year limited warranty on parts and labor; five years on the sealed refrigeration system.

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





Specialty HVAC Products



FRIEDRICH

1 8 8 3