



FRIEDRICH

1883



SPECIALTY AIR CONDITIONING PRODUCTS



DUCTLESS SPLITS / PTAC / VERTICAL PTAC

THE ULTIMATE ROOM AIR CONDITIONER

Ductless systems are ultra quiet and unobtrusive. They install high on the wall and are suitable for residential or light commercial use.

Ideal locations for ductless units

- Room additions/renovations
- Homes without ductwork
- Bedrooms and family rooms
- Garage workshops
- Sunrooms
- Guest quarters
- Wine cellars

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- Computer rooms/server rooms
 - Restaurant kitchen and prep areas
 - Offices in warehouse spaces
 - Storage facilities
 - Buildings where security concerns prevent the use of window units
 - Internal areas without exterior wall access



Friedrich ductless systems with Inverter Technology offer many advantages in ultra quiet zone cooling, efficiency and flexibility over room air conditioners and central systems.

Super energy efficient

All Friedrich ductless models exceed the federal 13.0 SEER requirements. And more than 50% of our models have ratings ranging from 16.5 to 22.0 SEER. Seven models are Energy Star® qualified with EERs up to 14.0.

Variable capacity advantages

Inverter Technology allows each system to adjust capacity and cooling output to provide only the amount of cooling needed at a given time. For example, an 18,000 Btu system will operate even more efficiently as a 15,500 if that is all that's needed, reducing energy consumption and expenses.

Zero duct loss

The DOE reports that ducted systems lose an average of 25-40% in performance due to leaks, cracks or disconnections in ductwork. No ductwork means that ductless systems do not experience duct loss.

Extremely quiet

Ductless systems keep the operating noise of the condensing unit outdoors, while the blower fan of the indoor unit remains whisper quiet.

Zone cooling flexibility

Independently condition up to 4 separate zones using only a single outdoor unit. Achieve the ultimate in comfort and energy control by cooling or heating only the zones that are in use. And, because each zone is independent of the others, comfort settings can vary.

No dirty air ducts

Now there's no need to clean dirty air ducts that can harbor dust, germs and allergens that are eventually blown into your home or office.



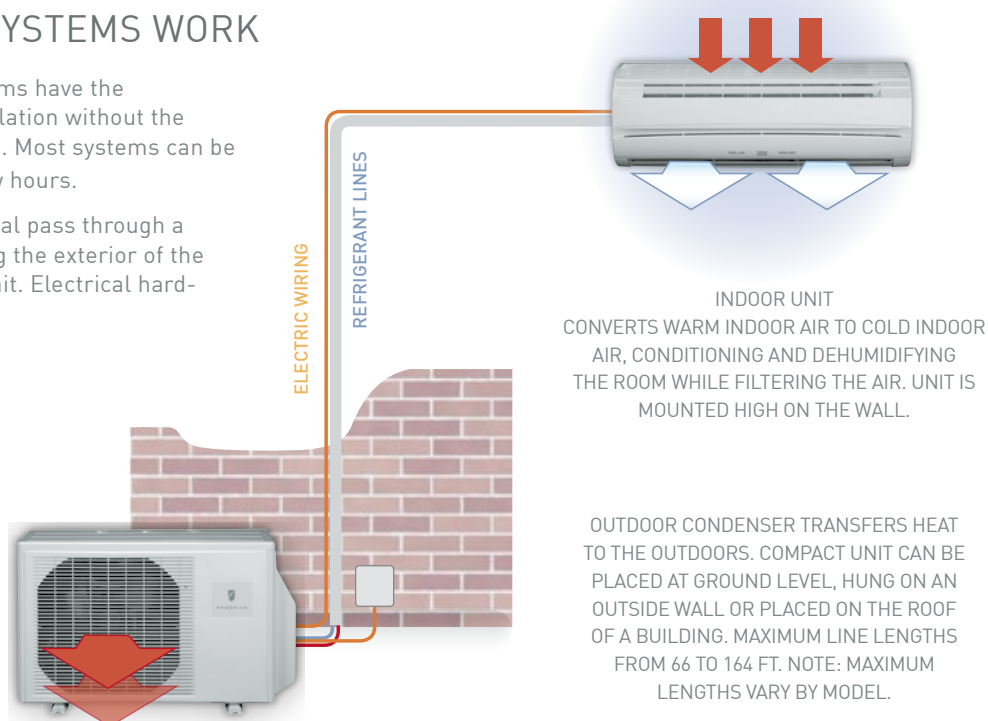
Learn more about ductless @friedrich.com

The Ultimate Room Air Conditioner online video explains the advantages of Friedrich ductless split systems.

HOW DUCTLESS SYSTEMS WORK

Friedrich ductless split systems have the advantages of a ducted installation without the high material and labor costs. Most systems can be installed and running in a few hours.

Refrigerant lines and electrical pass through a 3" wall opening and run along the exterior of the building to the condensing unit. Electrical hard-wiring is required.



SLEEK, INDOOR WALL MOUNTED MODELS

NEW 9,000 and 12,000 Btu variable capacity models available that are residential electrical requirement ready (115 V). Capacities up to 3 tons.

Comfort & Convenience

- LCD wireless remote for each indoor unit and secured remote control holder
- 24-hour timer and sleep timer
- Four fan speeds cooling or heating*: high, medium, low, quiet, plus auto-fan
- Multiple operating modes including: Auto, cool, dry (dehumidification), fan only and heat*
- Washable, reusable air filters for less maintenance
- Continuous 'Air Sweep' for even distribution of air throughout the room
- Auto-shut flaps close when unit is off for a sleeker appearance
- Auto-restart after power interruptions
- Auto-changeover (heat pump models)
- Remote controllers have four different transmitter codes to prevent unintentional adjustment or programming of nearby units when multiple units are installed
- Low temperature operation to 0° F

* Heat pump models only

DWC optional wired, wall mounted controller available on 18000 Btu and higher Btu models including multi-zone



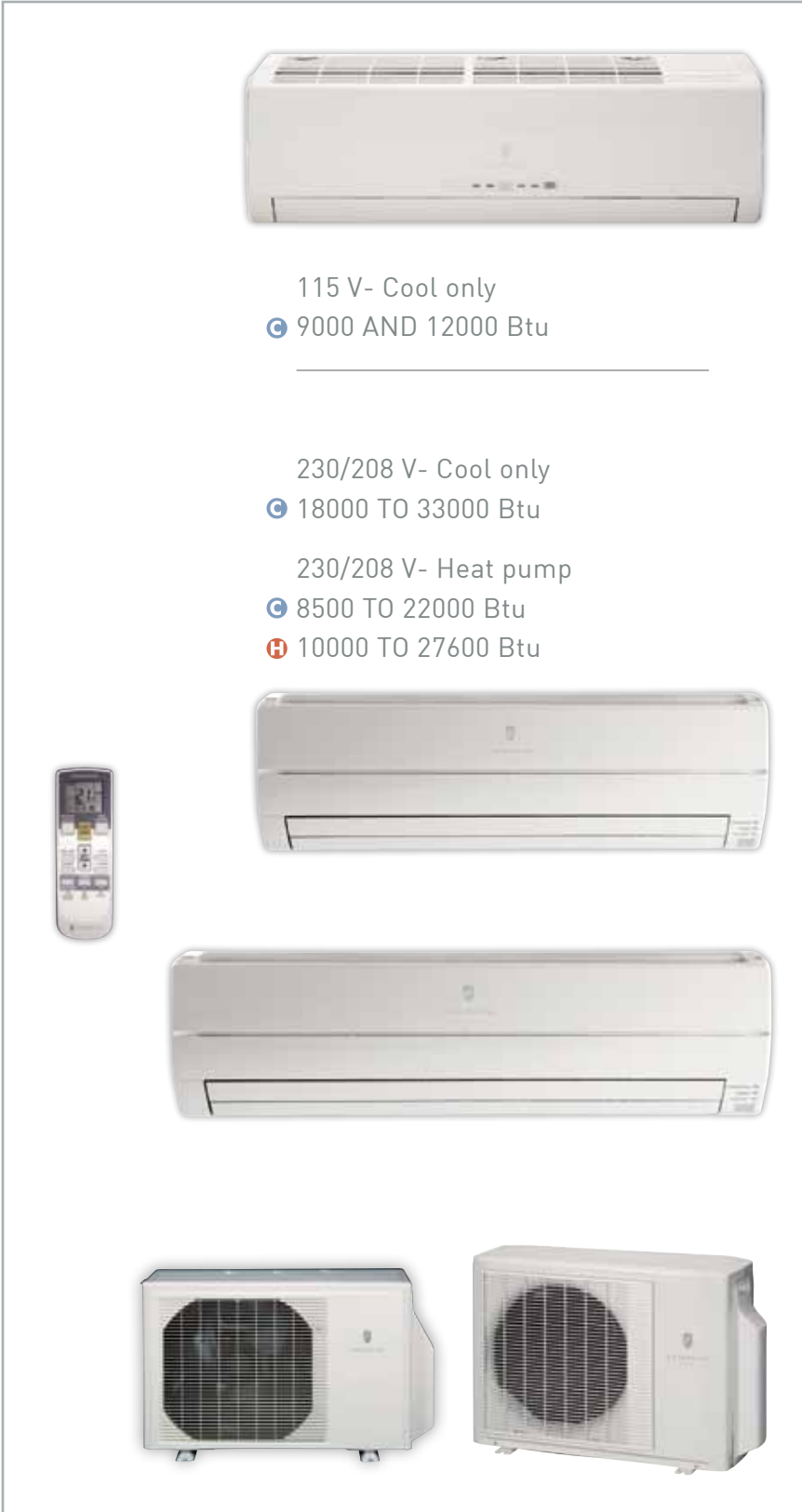
Cool only

model	Btu	seer
C M09CH	9000	22.0
C M12CH	12000	20.0
C M18CF	18000	19.0
C M24CG	24000	17.5
C M30CG	30700	16.5
C M36CG	33000	15.5

Heat pumps

model	Btu	seer
C M09YH	8500	21.0
H	10000	
C M12YH	11500	21.0
H	14000	
C M18YH	18000	19.2
H	21600	
C M24YH	22000	18.0
H	27600	

C = cooling capacity
H = heating capacity



115 V- Cool only

C 9000 AND 12000 Btu

230/208 V- Cool only

C 18000 TO 33000 Btu

230/208 V- Heat pump

C 8500 TO 22000 Btu

H 10000 TO 27600 Btu

MULTI-ZONE FLEXIBILITY

Two, three or four wall mounted indoor units connected to one outdoor unit for personalized zone cooling.

ZONE COOLING & HEATING

Comfort & Convenience

- LCD wireless remote for each indoor unit and secured remote control holder
- 24-hour timer and sleep timer
- Four fan speeds cooling or heating: high, medium, low, quiet, plus auto-fan
- Multiple operating modes including: Auto, cool, dry (dehumidification), fan only and heat
- Washable, reusable air filters for less maintenance
- Continuous 'Air Sweep' for even distribution of air throughout the room
- Auto-shut flaps close when unit is off for a sleeker appearance
- Auto-restart after power interruptions
- Auto-changeover (heat pump models)
- Remote controllers have four different transmitter codes to prevent unintentional adjustment or programming of nearby units when multiple units are installed
- Low temperature operation to 0° F

Precise comfort from one system in up to four different zones. Occupants have the ability to set the temperature to their preferred comfort level. And, you can turn off units in unoccupied rooms. That's the beauty- and efficiency of a Friedrich multi-zone system.



Each unit has its own remote for individual comfort control



	zone 1	zone 2	zone 3	zone 4		
	zone 1 zone 2 zone 3 zone 4					
model	Btu				total btu	seer
C M18DYF	9500	9500	—	—	19000	16.5
H M18DYF	11000	11000	—	—	22000	16.5
C M21DYF	9500	12000	—	—	21500	16.5
H M21DYF	11000	14000	—	—	25000	16.5
C M24DYF	12000	12000	—	—	24000	16.5
H M24DYF	14000	14000	—	—	28000	16.5
C M27TYF	9200	9200	9200	—	27600	15.0
H M27TYF	11200	11200	11200	—	33600	15.0
C M30TYF	9300	9300	11800	—	30400	15.0
H M30TYF	11000	11000	14000	—	36000	15.0
C M33TYF	9400	11800	11800	—	33000	15.0
H M33TYF	10700	13600	13600	—	37900	15.0
C M36TYF1	9100	9100	17000	—	35200	15.0
H M36TYF1	9800	9800	18400	—	38000	15.0
C M36TYF2	11700	11700	11700	—	35100	15.0
H M36TYF2	12700	12700	12700	—	38100	15.0
C M36QYF	8800	8800	8800	8800	35200	15.0
H M36QYF	9500	9500	9500	9500	38000	15.0

C = cooling capacity
H = heating capacity

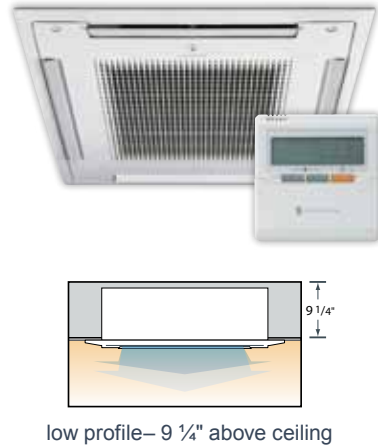
Floor/ceiling universal heat pump

Indoor unit can be installed 2 ways: low against the wall or on the ceiling.



Ceiling cassette heat pump

Low profile indoor unit recedes into ceiling for a clean look and greater clearance.



low profile— 9 1/4" above ceiling

Ceiling suspended heat pump

Almost 3 ton heat pump for conditioning large areas



Comfort & Convenience

- 2 tons of cooling
- LCD wireless remote and secured remote control holder
- 24-hour timer and sleep timer
- Four fan speeds cooling or heating: high, medium, low, quiet, plus auto-fan
- Multiple operating modes including: Auto, cool, dry (dehumidification), fan only and heat
- Washable, reusable air filters for less maintenance
- Continuous 'Air Sweep' for even distribution of air throughout the room
- Auto-shut flaps close when unit is off for a sleeker appearance
- Auto-restart after power interruptions
- Auto-changeover
- Low temperature operation to 0° F
- Self-diagnostics including stored error codes
- Fresh air intake (requires a separate in-line fan installation and ducting)



Comfort & Convenience

- Wall controller with 7-day programmable on/off timer controls up to 16 units—individually or by zones
- Three fan speeds cooling or heating: high, medium, low, plus auto-fan
- Multiple operating modes including: Auto, cool, dry (dehumidification), fan only and heat
- Washable, reusable air filters for less maintenance
- Continuous 'Air Sweep' for even distribution of air throughout the room
- Auto-shut flaps close when unit is off for a sleeker appearance
- Auto-restart after power interruptions
- Auto-changeover
- Low temperature operation to 0° F
- Self-diagnostics including stored error codes
- Condensate pump: 31" maximum rise
- Two branch ducts for adjoining rooms (requires additional fan)
- Fresh air intake (requires a separate in-line fan installation and ducting)

Comfort & Convenience



- LCD wireless remote and secured remote control holder
- Three fan speeds cooling or heating: high, medium, low, plus auto-fan
- Multiple operating modes including: Auto, cool, dry (dehumidification), fan only and heat
- Washable, reusable air filters for less maintenance
- Continuous 'Air Sweep' for even distribution of air throughout the room
- Auto-shut flaps close when unit is off for a sleeker appearance
- Auto-restart after power interruptions
- Auto-changeover
- Low temperature operation to 0° F
- Self-diagnostics including stored error codes
- Optional DP-36 condensate pump in lieu of gravity condensate removal (see p. 11)
- Fresh air intake (requires a separate in-line fan installation and ducting)

Heat pump

S24YF  22,200 Btu 15.0 SEER
 24,200 Btu





Heat pump

C24YF  22,200 Btu 15.0 SEER
 24,200 Btu



Heat pump

S36YF  34,100 Btu 14.0 SEER
 38,200 Btu



SPECIFICATIONS

WALL MOUNTED COOL ONLY

PERFORMANCE RATINGS							
SYSTEM MODEL NO.		M09CH	M12CH	M18CF	M24CG	M30CG	M36CG
INDOOR MODEL		MW09CH	MW12C1H	MW18C3F	MW24C3G	MW30C3G	MW36C3G
OUTDOOR MODEL		MR09CH	MR12C1H	MR18C3F	MR24C3G	MR30C3G	MR36C3G
CAPACITY COOLING	Btu	9000	12000	18000	24000	30700	33000
CAPACITY COOLING MIN - MAX	Btu	4435-10600	4500-14000	5500-19000	5200-25000	9900-32400	9900-34100
COOLING AMPS		7	11	7.7	10.5	14.2	17.3
SENSIBLE HEAT RATIO		0.75	0.75	0.63	0.76	0.65	0.67
SEER		22	20	19	17.5	16.5	15.5
EER		14	13.5	10.4	10.0	9.5	8.5
ENERGY STAR		YES	YES	NO	NO	NO	NO
FEDERAL TAX REBATE		YES	YES	NO	NO	NO	NO
MOISTURE REMOVAL	Pts/h	1.69	2.53	5.9	6.3	9.7	10.1
AIRFLOW (QUIET, LOW, MED, HIGH)	CFM	217/253/294/329	217/253/276/300	240/290/355/415	365/436/530/659	365/435/530/660	365/440/530/700
SOUND RATING - INDOOR	dB-A	26/30/34/38	26/32/36/40	25/32/38/44	33/37/42/48	33/37/42/49	33/37/42/51
SOUND RATING - OUTDOOR	dB-A	53	55	50	56	54	54
OPERATION RANGE	°F	0-115	0-115	14 - 115	14 - 115	14 - 115	14 - 115
EST. YEARLY OPERATING COST		\$51	\$71	\$138	\$192	\$258	\$310
ELECTRICAL DATA							
POWER SOURCE		115-60-1	115-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
MIN. AMPACITY	A	15	15	16	14	22	22
COOLING WATTS	W	643	889	1730	2400	3240	3880
MAX. TD FUSE/BREAKER	A	25*	25*	20	20	30	30
REFRIGERATION SYSTEM							
REFRIGERANT		R410A	R410A	R410A	R410A	R410A	R410A
COMPRESSOR TYPE		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
CONNECTIONS		Flare	Flare	Flare	Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"
SUCTION LINE O.D.	in	3/8"	3/8"	1/2"	5/8"	5/8"	5/8"
FACTORY PRECHARGE	ft	25'	25'	49'	49'	66'	66'
MAX. LINE LENGTH	ft	66'	66'	66'	98'	164'	164'
MAX. HEIGHT DIFFERENCE	ft	33'	33'	49'	66'	98'	98'
DIMENSIONS & WEIGHT							
INDOOR UNIT							
W X H X D	in	33 1/4" x 10 7/8" x 7 1/8"	33 1/4" x 10 7/8" x 7 1/8"	31 1/8" x 10 7/8" x 8 1/2"	39 1/4" x 12 5/8" x 9"	39 1/4" x 12 5/8" x 9"	39 1/4" x 12 5/8" x 9"
NET WEIGHT	lbs	24	24	21	31	31	31
SHIPPING WEIGHT	lbs	32	32	26	40	40	40
OUTDOOR UNIT							
W X H X D	in	33 3/8" x 21 1/4" x 12 5/8"	33 3/8" x 21 1/4" x 12 5/8"	31 1/8" x 22 3/4" x 12 3/8"	31 1/8" x 24 7/16" x 11 3/4"	32 3/4" x 35 3/8" x 13"	32 3/4" x 35 3/8" x 13"
NET WEIGHT	lbs	80	90	88	88	135	135
SHIPPING WEIGHT	lbs	90	97	98	97	150	150
TOTAL NET WEIGHT	lbs	104	114	109	119	166	166
TOTAL SHIPPING WEIGHT	lbs	122	129	124	137	190	190

*Recommended circuit breaker size 20A.

DUCTLESS SPLIT SYSTEMS

WALL MOUNTED HEAT PUMPS

PERFORMANCE RATINGS					
SYSTEM MODEL NO.		M09YH	M12YH	M18YH	M24YH
INDOOR MODEL		MW09Y3H	MW12Y3H	MW18Y3H	MW24Y3H
OUTDOOR MODEL		MR09Y3H	MR12Y3H	MR18Y3H	MR24Y3H
CAPACITY COOLING	Btu	8500	11500	18000	22000
CAPACITY COOLING MIN - MAX	Btu	1700-10900	3100-13300	7000-23000	9900-27300
COOLING AMPS		3.3	4.3	6.3	7.9
SENSIBLE HEAT RATIO		0.65	0.64	0.64	0.68
CAPACITY HEATING @ 47°F	Btu	10000	14000	21600	27600
CAPACITY HEATING MIN - MAX	Btu	1700-15000	3100-19100	7000-29000	7500-36200
CAPACITY HEATING @ 17°F	Btu	6700	8800	14600	18400
HSPF		10.5	10.5	10.0	10.0
SEER		21.0	21.0	19.2	18.0
EER		12.5	12.5	13.0	12.5
ENERGY STAR		YES	YES	YES	YES
FEDERAL TAX REBATE		YES	YES	YES	YES
MOISTURE REMOVAL	Pts/h	2.7	3.8	5.9	6.3
AIRFLOW (QUIET, LOW, MED, HIGH)	CFM	188/283/377/447	188/283/377/447	305/365/435/540	365/435/530/660
SOUND RATING - INDOOR	dB-A	22/33/38/43	22/33/38/43	28/33/37/43	33/37/42/49
SOUND RATING - OUTDOOR	dB-A	46	49	47	54
OPERATING RANGE (HEATING)	°F	14 - 115 (5 - 75)	14 - 115 (5 - 75)	14 - 115 (5 - 75)	0 - 115 (0 - 75)
EST. YEARLY OPERATING COST		\$54	\$73	\$111	\$141
ELECTRICAL DATA					
POWER SOURCE		230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
MIN. AMPACITY	A	10	12	16	21
COOLING WATTS	W	680	920	1380	1760
MAX. TD FUSE/BREAKER	A	15	15	20	30
REFRIGERATION SYSTEM					
REFRIGERANT		R410A	R410A	R410A	R410A
COMPRESSOR TYPE		Inverter	Inverter	Inverter	Inverter
CONNECTIONS		Flare	Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4	3/8	3/8
SUCTION LINE O.D.	in	3/8	3/8	5/8	5/8
FACTORY PRECHARGE	ft	49'	25'	66'	66'
MAX. LINE LENGTH	ft	66'	66'	164'	164'
MAX. HEIGHT DIFFERENCE	ft	49'	49'	98'	98'
DIMENSIONS & WEIGHT					
INDOOR UNIT					
W X H X D	in	31 1/8" x 11" x 7 3/4"	31 1/8" x 11" x 7 3/4"	39 1/4" x 12 5/8" x 9"	39 1/4" x 12 5/8" x 9"
NET WEIGHT	lbs	17	17	31	31
SHIPPING WEIGHT	lbs	21	21	40	40
OUTDOOR UNIT					
W X H X D	in	26" x 21 1/4" x 11 3/8"	26" x 21 1/4" x 11 3/8"	32 3/4" x 35 3/8" x 13"	32 3/4" x 35 3/8" x 13"
NET WEIGHT	lbs	55	68	135	135
SHIPPING WEIGHT	lbs	62	75	150	150
TOTAL NET WEIGHT	lbs	72	85	166	166
TOTAL SHIPPING WEIGHT	lbs	83	96	190	190

SPECIFICATIONS

DUAL-ZONE HEAT PUMPS

QUAD-ZONE HEAT PUMP

PERFORMANCE RATINGS					
SYSTEM MODEL NO.		M18DYF	M21DYF		M24DYF
INDOOR MODEL		2 x MW09Y3FM	MW09Y3FM	MW12Y3FM	2 x MW12Y3FM
OUTDOOR MODEL		MR24DY3F	MR24DY3F		MR24DY3F
Capacity Cooling	Btu	9500 ea.	9500	12000	12000 ea.
CAPACITY COOLING MIN - MAX	Btu	5100-11300 ea.	5100-11300 ea.	5100-13600 ea.	5100-13600 ea.
SENSIBLE HEAT RATIO		0.77	0.77	0.77	0.77
CAPACITY HEATING @ 47°F	Btu	11000 ea.	11000 ea.	14000	14000 ea.
CAPACITY HEATING MIN - MAX	Btu	5100-13000 ea.	5100-13000 ea.	5100-15400 ea.	5100-15400 ea.
CAPACITY HEATING @ 17°F	Btu	9500 ea.	9500 ea.	11000	10500 ea.
HSPF		9.0	9.0		9.0
SEER		16.5	16.5		16.5
EER		12.2	11.2		10.4
ENERGY STAR		YES	NO		NO
MOISTURE REMOVAL	Pts/h	2.9 ea.	2.9 ea.	3.7 ea.	3.7 ea.
AIRFLOW (QUIET, LOW, MED, HIGH)	CFM	185,220,260,295	185,220,260,295	215,250,305,355	215,250,305,355
SOUND RATING - INDOOR	dB-A	27,29,33,37	27,29,33,37	30,34,39,42	30,34,39,42
SOUND RATING - OUTDOOR	dB-A	52	52		52
OPERATIONG RANGE (HEATING)	°F	0 - 115 (14 - 75)	0 - 115 (14 - 75)		0 - 115 (14 - 75)
EST. YEARLY OPERATING COST		\$128	\$152	\$152	\$184
ELECTRICAL DATA (ALL INDOOR UNITS RECEIVE POWER FROM OUTDOOR UNIT; VALUES LISTED ARE TOTAL)					
POWER SOURCE		230/(208)-60-1	230/(208)-60-1		230/(208)-60-1
MIN. AMPACITY	A	15	15		15
COOLING WATTS	W	1600	1900		2300
MAX. TD FUSE/BREAKER	A	20	20		20
REFRIGERATION SYSTEM					
REFRIGERANT		R410A	R410A		R410A
COMPRESSOR TYPE		Inverter	Inverter		Inverter
CONNECTIONS		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"
FACTORY PRECHARGE	ft	98'	98'		98'
MAX. LINE LENGTH	ft	Each unit:82 Total:98	Each unit:82 Total:98		Each unit:82 Total:98
MAX. HEIGHT DIFFERENCE	ft	33'	33'		33'
DIMENSIONS & WEIGHT					
INDOOR UNIT					
W X H X D	in	31 1/8" x 10 7/8" x 8 1/2" ea.	31 1/8" x 10 7/8" x 8 1/2" ea.		31 1/8" x 10 7/8" x 8 1/2" ea.
NET WEIGHT	lbs	21 ea.	21	21	21 ea.
SHIPPING WEIGHT	lbs	26 ea.	26	26	26 ea.
OUTDOOR UNIT					
W X H X D	in	35 3/8" x 32 5/8" x 13"	35 3/8" x 32 5/8" x 13"		35 3/8" x 32 5/8" x 13"
NET WEIGHT	lbs	136	136		136
SHIPPING WEIGHT	lbs	154	154		154
M36QYF					
4 x MW09Y3FM					
MR36TQY3F					
8800 ea.					
5100-11300 ea.					
0.71					
9500 ea.					
5100-13000 ea.					
6600 ea.					
9.0					
15.0					
8.8					
NO					
2.9 ea.					
185,220,260,295					
27,29,33,37					
52					
0 - 115 (14 - 75)					
\$312					
230/(208)-60-1					
22.5					
3900					
30					
R410A					
Inverter					
Flare					
1/4"					
3/8"					
165'					
Each unit:82 Total:230					
49'					
31 1/8" x 10 7/8" x 8 1/2" ea.					
21 ea.					
26 ea.					
35 3/8" x 32 5/8" x 13"					
149					
167					

DUCTLESS SPLIT SYSTEMS

TRI-ZONE HEAT PUMPS

PERFORMANCE RATINGS								
SYSTEM MODEL NO.	M27TYF	M30TYF		M33TYF		M36TYF1		M36TYF2
INDOOR MODEL	3 x MW09Y3FM	2 x MW09Y3FM	MW12Y3FM	MW09Y3FM	2 x MW12Y3FM	2 x MW09Y3FM	MW18Y3FM	3 x MW12Y3FM
OUTDOOR MODEL	MR36TQY3F	MR36TQY3F		MR36TQY3F		MR36TQY3F		MR36TQY3F
CAPACITY COOLING Btu	9200 ea.	9300 ea.	11800	9400	11800 ea.	9100 ea.	17000	11700 ea.
CAPACITY COOLING MIN - MAX Btu	5100-11300 ea.	5100-11300 ea.	5100-13600 ea.	5100-11300 ea.	5100-13600 ea.	5100-11300 ea.	6100-19000 ea.	5100-13600 ea.
SENSIBLE HEAT RATIO	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
CAPACITY HEATING @ 47°F Btu	11200 ea.	11000 ea.	14000	10700	13600 ea.	9800 ea.	18400	12700 ea.
CAPACITY HEATING MIN - MAX Btu	5100-13000 ea.	5100-13000 ea.	5100-15400 ea.	5100-13000 ea.	5100-15400 ea.	5100-13000 ea.	5500-23000 ea.	5100-15400 ea.
CAPACITY HEATING @ 17°F Btu	8300 ea.	7700 ea.	9800	7200	9200 ea.	6700 ea.	12500	8600 ea.
HSPF	9.0	9.0		9.0		9.0		9.0
SEER	15.0	15.0		15.0		15.0		15.0
EER	10.0	9.2		8.8		8.8		8.8
MOISTURE REMOVAL Pts/h	2.9 ea.	2.9 ea.	3.7	2.9	3.7 ea.	2.9 ea.	5.7	3.7 ea.
AIRFLOW (QUIET, LOW, MED, HIGH) CFM	185,220,260,295	185,220,260,295	215,250,305,355	185,220,260,295	215,250,305,355	185,220,260,295	240,290,355,415	215,250,305,355
SOUND RATING - INDOOR dB-A	27,29,33,37	27,29,33,37	30,34,39,42	27,29,33,37	30,34,39,42	27,29,33,37	33,39,42,46	30,34,39,42
SOUND RATING - OUTDOOR dB-A	52	52		52		52		52
OPERATION RANGE (HEATING) °F	0 - 115 (14 - 75)	0 - 115 (14 - 75)		0 - 115 (14 - 75)		0 - 115 (14 - 75)		0 - 115 (14 - 75)
EST. YEARLY OPERATING COST	\$216	\$254	\$254	\$296	\$296	\$320	\$320	\$318
ELECTRICAL DATA (ALL INDOOR UNITS RECEIVE POWER FROM OUTDOOR UNIT; VALUES LISTED ARE TOTAL)								
POWER SOURCE	230/(208)-60-1	230/(208)-60-1		230/(208)-60-1		230/(208)-60-1		230/(208)-60-1
MIN. AMPACITY A	22.5	22.5		22.5		22.5		22.5
COOLING WATTS W	2710	3180		3710		4000		3980
MAX. TD FUSE/BREAKER A	30	30		30		30		30
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"	1/4"
SUCTION LINE O.D. in	3/8"	3/8"		3/8"		3/8"	1/2"	3/8"
FACTORY PRECHARGE ft	165'	165'		165'		165'		165'
MAX. LINE LENGTH ft	Each unit:82 Total:230	Each unit:82 Total:230		Each unit:82 Total:230		Each unit:82 Total:230		Each unit:82Total:230
MAX. HEIGHT DIFFERENCE ft	49'	49'		49'		49'		49'
DIMENSIONS & WEIGHT								
INDOOR UNIT								
W X H X D in	31 1/8" x 10 7/8" x 8 1/2" ea.	31 1/8" x 10 7/8" x 8 1/2" ea.		31 1/8" x 10 7/8" x 8 1/2"		31 1/8" x 10 7/8" x 8 1/2"		31 1/8" x 10 7/8" x 8 1/2"
NET WEIGHT lbs	21 ea.	21 ea.	21	21	21 ea.	21 ea.	21	21 ea.
SHIPPING WEIGHT lbs	26 ea.	26 ea.	26	26	26 ea.	26 ea.	26	26 ea.
OUTDOOR UNIT								
W X H X D in	35 3/8" x 32 5/8" x 13"	35 3/8" x 32 5/8" x 13"		35 3/8" x 32 5/8" x 13"		35 3/8" x 32 5/8" x 13"		35 3/8" x 32 5/8" x 13"
NET WEIGHT lbs	149	149		149		149		149
SHIPPING WEIGHT lbs	167	167		167		167		167

SPECIFICATIONS / ACCESSORIES

CEILING AND FLOOR INSTALLED HEAT PUMPS

PERFORMANCE RATINGS				
SYSTEM MODEL NO.		S24YF	S36YF	C24YF
INDOOR MODEL		MS24Y3F	MS36Y3F	MC24Y3F
OUTDOOR MODEL		MR24UY3F	MR36Y3F	MR24UY3F
CAPACITY COOLING	Btu	22200	34100	22200
CAPACITY COOLING MIN - MAX	Btu	5000-27300	8500-36000	5000-27300
SENSIBLE HEAT RATIO		0.62	0.67	0.64
CAPACITY HEATING @ 47°F	Btu	24200	38200	24200
CAPACITY HEATING MIN - MAX	Btu	5000-29000	9200-42700	5000-29000
CAPACITY HEATING @ 17°F	Btu	20100	27100	20100
HSPF		8.5	8.5	8.5
SEER		15	14	15
EER		9.8	8.1	10.6
MOISTURE REMOVAL	Pts/h	7.4	7.4	6.4
AIRFLOW (LOW, MED, HIGH)	CFM	371, 436, 518	842, 977, 1089	436, 536, 618
SOUND RATING - INDOOR	dB-A	38, 43, 47	41, 45, 48	38, 43, 45
SOUND RATING - OUTDOOR	dB-A	53	54	53
OPERATION RANGE (HEATING)	°F	0 - 115 (14 - 75)	0 - 115 (14 - 75)	0 - 115 (14 - 75)
EST. YEARLY OPERATING COST		\$180	\$337	\$168
ELECTRICAL DATA				
POWER SOURCE		230/208-60-1	230/208-60-1	230/208-60-1
MIN. AMPACITY	A	15.5	23	15.5
COOLING WATTS	W	2250	4220	2100
MAX. TD FUSE/BREAKER	A	20	30	20
REFRIGERATION SYSTEM				
REFRIGERANT		R410A	R410A	R410A
COMPRESSOR TYPE		Inverter (Twin Rotary)	Inverter (Twin Rotary)	Inverter (Twin Rotary)
CONNECTIONS		Flare	Flare	Flare
LIQUID LINE O.D.	in	3/8"	3/8"	3/8"
SUCTION LINE O.D.	in	5/8"	5/8"	5/8"
FACTORY PRECHARGE	ft	50'	50'	50'
MAX. LINE LENGTH	ft	165'	165'	165'
MAX. HEIGHT DIFFERENCE	ft	66'	98'	66'
DIMENSIONS & WEIGHT				
INDOOR UNIT				
W X H X D	in	39" x 7 7/8" x 25 3/4"	65 3/8" x 9 1/2" x 27 1/2"	32 5/8" x 9 5/8" x 32 5/8"
NET WEIGHT	lbs	62	106	75
SHIPPING WEIGHT	lbs	82	134	97
OUTDOOR UNIT				
W X H X D	in	35 3/8" x 32 5/8" x 13"	35 3/8" x 32 5/8" x 13"	35 3/8" x 32 5/8" x 13"
NET WEIGHT	lbs	141	141	141
SHIPPING WEIGHT	lbs	154	154	154

NOTE: All models have low ambient capabilities built-in. Capacity is reduced as 0 degrees Fahrenheit is approached.

NOTE: All R410A models have 1/2" UNF 20 thread per inch charging and vacuuming ports. An adapter must be used for 1/4" gauges. Adapter part number 67270018 is available through Friedrich parts distributors.

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

Wired wall mounted controller

WIRED CONTROLLER	USED WITH
DWC	18000 Btu and larger models and all Multi-Zone systems



Drain pump

DRAIN PUMP	USED WITH
DP-36	S36YF

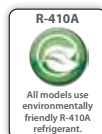


Refrigeration line sets

USED WITH:	LENGTH-FT.	LIQUID	SUCTION	KIT#
All 9000 and 12000 Btu indoor units	15'	1/4"	3/8"	T32150
	35'	1/4"	3/8"	T32350
MW18C3F and MW18Y3FM indoor units	15'	1/4"	1/2"	T42150
	35'	1/4"	1/2"	T42350
MW24C3G indoor unit	15'	1/4"	5/8"	T52150
	35'	1/4"	5/8"	T52350
M18YH, M24YH, M30CG, M36CG, S24YF and C24YF systems	15'	3/8"	5/8"	T53150
	35'	3/8"	5/8"	T53350



Insulated line sets are available for all Friedrich split systems in 15 ft. and 35 ft. lengths. Each line set is equipped with flare nuts on both ends. Both liquid and suction lines are insulated. Line sets can be joined together with field supplied double female connectors. Each system requires one line set for each indoor unit installed. On multi-zone systems, line sets should be ordered based on individual indoor unit capacities not total system capacity. For example, a M18DYF uses 2 line sets for 9,000 Btu units, not 1 for the 18,000 Btu product.



NEW FRIEDRICH PTAC

Quieter performance, improved airflow and higher efficiencies.

COMPLETELY RE-ENGINEERED COMPLETELY RE-DESIGNED

New, quieter PTAC design with improved air distribution

NEW TWO MOTOR DESIGN

With separate indoor and outdoor motors, the indoor motor can run at slower speeds which reduces sound levels indoors.

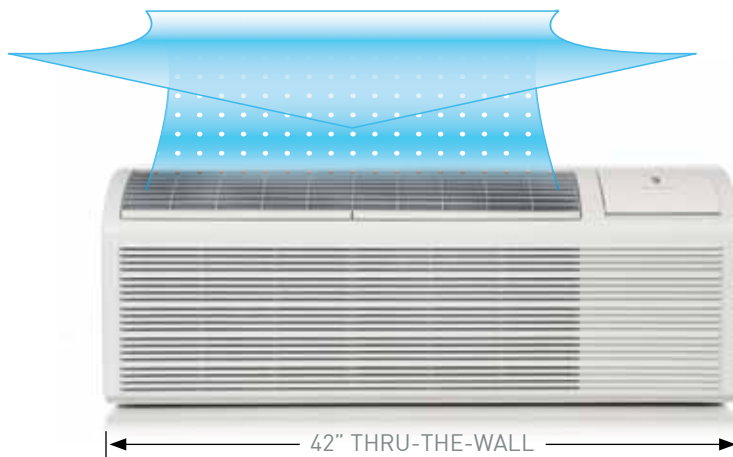
NEW TANGENTIAL BLOWER WHEEL

Tangential blower wheel has nearly 5x the surface area of a typical fan used on other PTACs. The result is more uniform airflow over a wider path for faster, more even air distribution throughout the room and improved sound levels.

Air is blown over the entire length of the tangential wheel into the room in a uniform laminar airflow.



TANGENTIAL BLOWER WHEEL PROVIDES UNIFORM LAMINAR AIRFLOW OVER A WIDE PATH FOR FASTER, MORE EVEN AIR DISTRIBUTION THROUGHOUT THE ROOM WITH IMPROVED SOUND LEVELS.



UNIQUE 3 SPEED FAN

Friedrich is the only major PTAC brand with 3 fan speeds in cooling and heating mode.

Soft start/stop fan delay feature reduces transitional noise that is usually associated with compressor start-up.



DIGITAL CONTROLS WITH UNIQUE 3 SPEED FAN

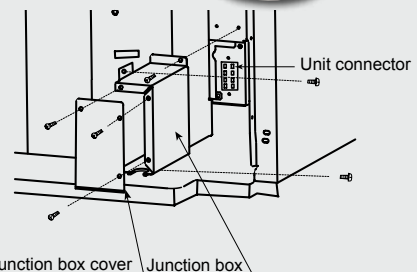
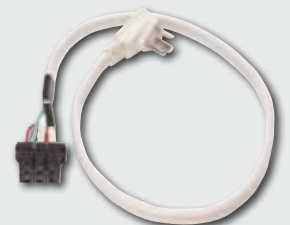
UNIVERSAL HEATER / POWER CORD

All PTAC units ship complete with the standard power cord for that model (7K,9K and 12K = 3.0 kW and 15K = 5.0 kW). If you want to adjust the heater size on any PTAC unit simply unplug the attached power cord and connect the desired size. It is important to ensure that all wiring and building connections are sized properly for the power cord as well.

Universal heater allows installers to change the heat output of the PTAC by changing the power cord, simplifying ordering and installation.

For distributors, this means stocking one PTAC model and the 2 optional cords in place of 3 separate PTACs.

POWER CORD IS AS EASY TO CONNECT AS A PHONE JACK





DIAMONBLUE ADVANCED CORROSION PROTECTION

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



REMOTE THERMOSTAT READY, OPERATES WITH OPTIONAL FRIEDRICH DIGITAL REMOTE THERMOSTAT FOR USER CONVENIENCE. (RT6)



EASY-TO-CLEAN ANTIMICROBIAL AIR FILTERS ARE TOP-MOUNTED FOR QUICK ACCESS AND PROTECT AGAINST FUNGAL AND BACTERIAL GROWTH.

Room Comfort Features

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

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

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

The digital control panel will automatically run the fan to briefly sample the room temperature every nine minutes to ensure desired conditions are maintained

Durability Features

Durable front panel with break proof control door and design

Room freeze protection- heat initiated if temperature falls to 40°F in an unoccupied room, raising temperature to 46°F

Tamper-resistant grille

Dual motors for quiet operation

Durable, powder coat paint finish

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

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



5 YEAR WARRANTY
 On the sealed refrigeration system.
 Limitations apply.
 Refer to warranty documentation for details.

Energy Management Features

New line has improved energy efficiency ratings for increased energy savings

Owners and operators will appreciate the flexibility to set separate heat and cool range limits

Desk control ready allowing hotel owners to control units from a central location

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

Installation Features

Universal heaters with heat capacities determined by the power cord used with the unit; achieve up to 64 PTAC SKUs with 16 units by changing the power cord size

Indoor Air Quality

Fresh air damper control to bring in fresh outside air when desired

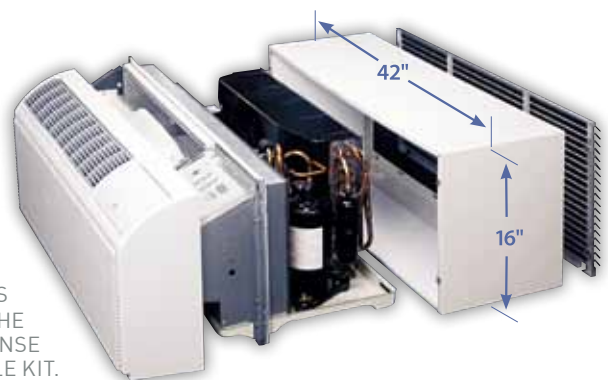
Washable, antimicrobial air filter

Maintenance Features




Service error code memory storage facilitates improved unit diagnostics.

Emergency heat override ensures heat mode operation even in the unlikely event of compressor failure

Maintenance friendly design means easy access to components for cleaning and repairs including lift-out air filters



FITS OTHER PTAC SLEEVES WITHOUT THE ADDED EXPENSE OF A BAFFLE KIT.

250 V Receptacles and Fuse Types			
AMPS	15	20	30
HEATER SIZE	0, 2.0 kW	3.0 kW	5.0 kW
RECEPTACLE			

IMPORTANT NOTE: SLEEVES ARE SOLD AND SHIPPED SEPARATELY TO ACCOMMODATE NEW CONSTRUCTION AND REPLACEMENT REQUIREMENTS.

WALL SLEEVE

PDXWS

Galvanized steel is prepared in a state-of-the-art, multistep 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. 16" x 42" x 13 3/4"



STANDARD GRILLE

PXGA

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



DEEP WALL SLEEVE EXTENSION

PXWE

A four-inch deep, anodized aluminum extension that attaches to the outside of the wall sleeve when the wall is greater than 13 1/4" thick (11 3/4" when a subbase is used, and 12 1/4" when a lateral duct is used).



PDXWS EXT

One piece extended wall sleeve for walls 13 1/4" -26" deep are available by special order

DIGITAL REMOTE THERMOSTATS

RT6

Digital, two stage thermostat features high/low fan speed switch. Thermostat is hard wired and can be battery powered or unit powered. Features backlit display and multiple configuration modes. Mounts to wall for control of unit.



REMOTE THERMOSTAT

ESCUTCHEON KIT

PDXRTA

Kit contains ten escutcheons that can be placed over the factory control buttons when a remote wall mounted thermostat is used. The escutcheon directs the user to the wall thermostat for operation and retains the LED window to display error codes and diagnostic information.



PXFTA

10 pack of antimicrobial air filters



SLEEVE EXTENSION
RETROFIT KIT

PXSE

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 a 11 1/2" deep T-series sleeve.



ARCHITECTURAL GRILLES

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

PXAA Clear extruded aluminum.
 PXBG Beige acrylic enamel.
 PXSC Available in custom colors.



PXAA

DECORATIVE SUBBASE (black)

PXSB

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.



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. Packaged in quantities of ten.



CONDUIT KIT WITH
JUNCTION BOX

PXCJA

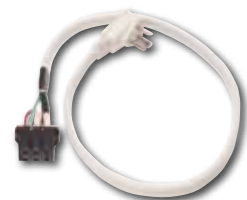
Hard wire conduit kit with junction box for 208/230V and 265V units (subbase not required). Kit includes a means of quick disconnect for easy removal of the chassis.

*Required for 265V installations.



POWER CORDS

PXPC23000	LCDI 230V 15A Cord - 00 kW (for use PDE models only)
PXPC23015	LCDI 230V 15A Cord - 2.0 kW
PXPC23020	LCDI 230V 20A Cord - 3.0 kW
PXPC23030	LCDI 230V 30A Cord - 5.0 kW
PXPC26515	Non-LCDI 265V 15A Cord - 2.0 kW
PXPC26520	Non-LCDI 265V 20A Cord - 3.0 kW
PXPC26530	Non-LCDI 265V 30A Cord - 5.0 kW



Non-LCDI cords for use with subbase PXSB.

PRELIMINARY SPECIFICATIONS

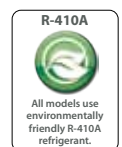
MODEL	PDE07K	PDE07R	PDE09K	PDE09R	PDE12K	PDE12R	PDE15K	PDE15R
PERFORMANCE DATA:								
COOLING Btu	7700/7600	7700	9000/8800	9000	12000/11800	12000	15000/14600	15000
EER	12.0/12.2	12.0	11.3/11.4	11.3	10.7/10.5	10.7	9.8/9.7	9.8
ELECTRICAL DATA:								
VOLTAGE (1 PHASE, 60 Hz)	230/208	265	230/208	265	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)	2.8/3.0	2.4	3.7/3.9	3.7	5.1/5.3	4.8	6.7/7.5	5.9
COMPRESSOR LRA	19	12	17	18	27	23	32.6	27.8
COMPRESSOR RLA	2.8	2.4	3.7	2.85	5	4.3	6.6	5.6
WATTS	640/620	640	800/770	800	1120/1120	1120	1530/1510	1530
HEATER KW	2.0/3.0	2.0/3.0	2.0/3.0/5.0	2.0/3.0/5.0	2.0/3.0/5.0	2.0/3.0/5.0	2.0/3.0/5.0	2.0/3.0/5.0
BRANCH CIRCUIT FUSE (AMPS)	15/20	15/20	15/20/30	15/20/30	15/20/30	15/20/30	15/20/30	15/20/30
AIRFLOW DATA:								
INDOOR CFM, HIGH	350	350	350	350	375	375	375	375
INDOOR CFM, MED	325	325	325	325	340	340	340	340
INDOOR CFM, LOW	290	290	290	290	300	300	300	300
VENT CFM	75	75	75	75	75	75	75	75
PHYSICAL DATA:								
SLEEVE DIMENSIONS	16" x 42" x 13 3/4"	16" x 42" x 13 3/4"	16" x 42" x 13 3/4"	16" x 42" x 13 3/4"	16" x 42" x 13 3/4"	16" x 42" x 13 3/4"	16" x 42" x 13 3/4"	16" x 42" x 13 3/4"
FRONT COVER DIMENSIONS	16" x 42" x 7 3/4"	16" x 42" x 7 3/4"	16" x 42" x 7 3/4"	16" x 42" x 7 3/4"	16" x 42" x 7 3/4"	16" x 42" x 7 3/4"	16" x 42" x 7 3/4"	16" x 42" x 7 3/4"
CUT-OUT DIMENSIONS	16 1/4" x 42 1/4"	16 1/4" x 42 1/4"	16 1/4" x 42 1/4"	16 1/4" x 42 1/4"	16 1/4" x 42 1/4"	16 1/4" x 42 1/4"	16 1/4" x 42 1/4"	16 1/4" x 42 1/4"
INDOOR MOTOR FLA	0.1	0.1	0.2	0.2	0.25	0.25	0.25	0.25
INDOOR MOTOR HP	1/42	1/42	1/30	1/30	1/30	1/30	1/30	1/30
OUTDOOR MOTOR FLA	0.35	0.35	0.35	0.35	0.6	0.4	0.6	0.4
OUTDOOR MOTOR HP	1/19	1/19	1/19	1/19	1/11	1/17	1/11	1/17
R-410A CHARGE (OZ.)	23.63	24.69	33.51	33.51	35.27	35.98	38.10	40.21

MODEL	PDH07K	PDH07R	PDH09K	PDH09R	PDH12K	PDH12R	PDH15K	PDH15R
PERFORMANCE DATA:								
COOLING Btu	7700/7600	7700	9000/8800	9000	12000/11800	12000	14500/14200	14500
EER	12.0/12.2	12.0	11.3/11.4	11.3	10.7/10.5	10.7	9.8/9.7	9.8
REVERSE HEATING Btu	6300/6100	6300	8100/7900	8100	10700/10500	10700	13300/13000	13300
Power (WATTS) HEAT	640/620	640	800/770	800	1120/1120	1120	1480/1460	1480
COP	3.4	3.4	3.3	3.3	3.1	3.1	3.0	3.0
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)	2.8/3.0	2.4	3.7/3.9	3.7	5.1/5.3	4.8	6.5/7.16	5.7
REVERSE HEAT AMPS	2.5/2.4	2.1	3.8/3.4	3.4	4.7/4.5	4.5	6.2/5.8	5.0
COMPRESSOR LRA	19	12	18.5	19	27	23	36	26
COMPRESSOR RLA"	2.8	2.4	3.6	3.2	5	4.3	6.5	5.3
HEATER KW	2.0/3.0	2.0/3.0	2.0/3.0/5.0	2.0/3.0/5.0	2.0/3.0/5.0	2.0/3.0/5.0	2.0/3.0/5.0	2.0/3.0/5.0
BRANCH CIRCUIT FUSE (AMPS)	15/20	15/20	15/20/30	15/20/30	15/20/30	15/20/30	15/20/30	15/20/30
AIRFLOW DATA:								
INDOOR CFM, HIGH	350	350	350	350	375	375	375	375
INDOOR CFM, MED	325	325	325	325	340	340	340	340
INDOOR CFM, LOW	290	290	290	290	300	300	300	300
VENT CFM	75	75	75	75	75	75	75	75
PHYSICAL DATA:								
SLEEVE DIMENSIONS	16" x 42" x 13 3/4"	16" x 42" x 13 3/4"	16" x 42" x 13 3/4"	16" x 42" x 13 3/4"	16" x 42" x 13 3/4"	16" x 42" x 13 3/4"	16" x 42" x 13 3/4"	16" x 42" x 13 3/4"
FRONT COVER DIMENSIONS	16" x 42" x 7 3/4"	16" x 42" x 7 3/4"	16" x 42" x 7 3/4"	16" x 42" x 7 3/4"	16" x 42" x 7 3/4"	16" x 42" x 7 3/4"	16" x 42" x 7 3/4"	16" x 42" x 7 3/4"
CUT-OUT DIMENSIONS	16 1/4" x 42 1/4"	16 1/4" x 42 1/4"	16 1/4" x 42 1/4"	16 1/4" x 42 1/4"	16 1/4" x 42 1/4"	16 1/4" x 42 1/4"	16 1/4" x 42 1/4"	16 1/4" x 42 1/4"
INDOOR MOTOR FLA	0.1	0.1	0.2	0.2	0.25	0.25	0.25	0.25
INDOOR MOTOR HP	1/42	1/42	1/30	1/30	1/30	1/30	1/30	1/30
OUTDOOR MOTOR FLA	0.35	0.35	0.35	0.35	0.6	0.4	0.6	0.4
OUTDOOR MOTOR HP	1/19	1/19	1/19	1/19	1/11	1/17	1/11	1/17
R-410A charge (oz.)	23.63	24.69	33.51	35.27	35.27	35.98	39.86	36.33

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.



THE BEST CHOICE

to heat & cool adjoining rooms, extended stay properties, suites, assisted living, student housing and commercial spaces

QUIETER BY DESIGN

There's no comparison

Friedrich Vert-I-Pak® is engineered to provide quieter performance for a better experience.

Friedrich sound reduction features

Chassis installs into a wall plenum and is held firmly in place by a sealing gasket, reducing noise from vibration transfer.

½ inch foil-backed insulation added on the inside of the chassis to reduce sound transmission into the room.

Extra thick, vibration-absorbing rubber grommets mounted on durable base that is engineered for structural and acoustic integrity.

Dynamically balanced blower with large, vibration-absorbing motor mounts for smooth and quiet operation.

Friedrich's unique 'Free Floating' chassis design

The chassis slides into the wall plenum and a gasket firmly seals the chassis to the plenum. This eliminates vibration noises that are transmitted into the room in competitor's metal-on-metal fixed installations.



Vert-I-Pak® can be concealed in a small mechanical closet against an outside wall

A better choice than whole building solutions

Advantages Include:

Lower installed cost

Independent metering (no need to prorate for multi tenant applications)

Individual temperature set point (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-Paks can be easily accessed for maintenance or replacement

What you'll find on competitor's products

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.

No insulation on the unit to reduce noise transmission into the guest room.

Hard plastic feet on the unit base which are less durable and transfer harsh vibration noise.



Easy installation

- Can be installed from any interior side (front, right or left)
- Compact and lightweight, weighs as little as 125 lbs.
- Easy installation; does not require an HVAC technician
- All units are ready to install with only electrical hook up needed to be up and running.
- 24-volt remote thermostat ready
- 10" crimped and beaded duct-collar ready to attach flex duct
- Pre-wired, charged and piped
- Telescoping wall plenums adjust to fit varying exterior wall thicknesses
- Easy-to-connect, right or left drain connection
- All units are shipped (on pallet) with return air filter



5 YEAR WARRANTY
On the sealed refrigeration system.
Limitations apply.
Refer to warranty documentation for details.

Reliable and durable

- PSC permanently lubricated motor for low maintenance and maximum efficiency
- Engineered drain pan won't rust, eliminating the risk of unsightly rust stains from condensation on the building exterior
- Standard safety power disconnect
- Electronic control panel on unit for easy diagnostics and servicing
- 100% run tested prior to shipment- Every unit is tested in every operating mode before it ships for optimal performance and reliability



DIAMONBLUE ADVANCED CORROSION PROTECTION

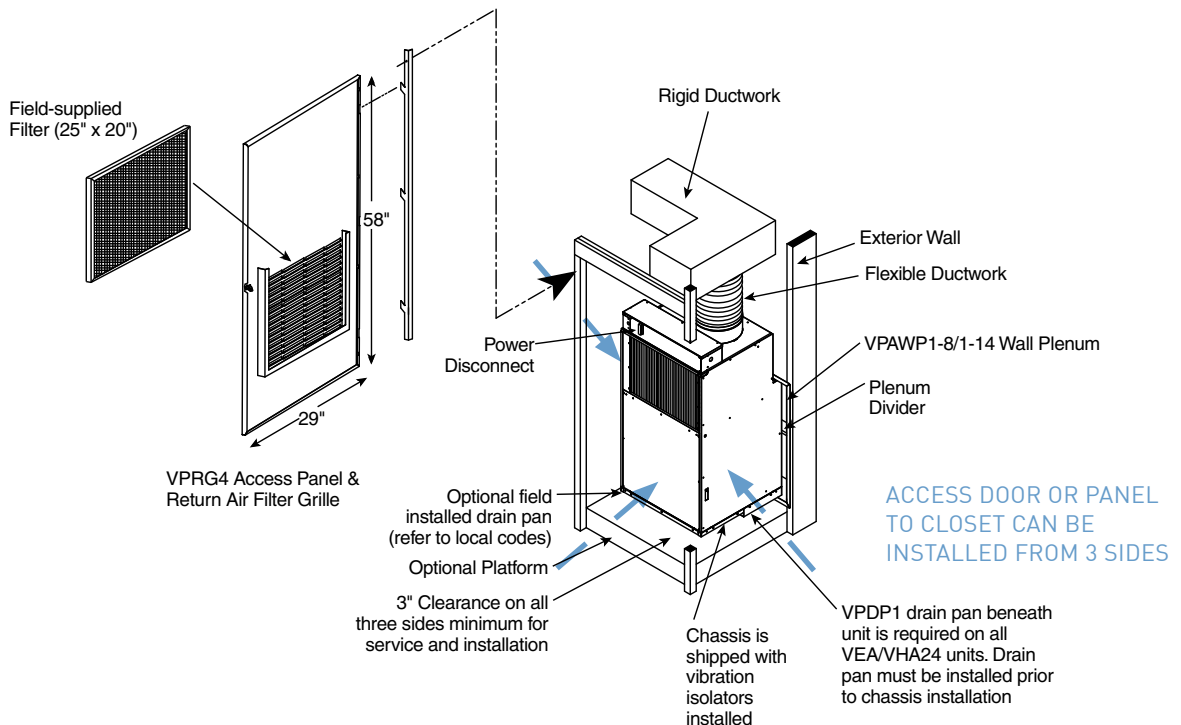
Protects the outdoor coil against deterioration and extends the life of the unit especially in harsh coastal environments.

Available in capacities from 9200 to 23000 Btu, Vert-I-Pak® can easily cool larger suites and common areas



9200, 11500 and 18000 Btu models

Typical Vert-I-Pak® installation.



**ARCHITECTURAL LOUVER
VPAL2 and VPSC2**

Extruded aluminum grille that attaches to the outdoor section of the wall plenum. Takes in fresh air and returns condensed air. VPSC2 can be ordered in custom colors.

DIMENSIONS:

25 9/16" W x 31 1/16" H

**RETURN AIR GRILLE/
ACCESS PANEL
VPRG4**

Hinged panel allows access to unit and return air filter. A field-supplied filter (25" x 20") should be mounted on the inside the grille. Panel can be mounted with return air openings high or low on the door for optimum sound attenuation.

DIMENSIONS:

29" W x 58" H

CUTOUT DIMENSIONS:

27" W x 55 3/4" H

**WALL PLENUM
VPAWP1-8, VPAWP1-14**

Two-part sleeve that telescopes in and out. Sits inside the exterior wall penetration.

VPAWP1-8 telescopes from 5 1/2"-8"

VPAWP1-14 telescopes from 8"-14"

DIMENSIONS:

24 1/8" W x 30 3/8" H

CUTOUT DIMENSIONS:

24 5/8" W x 30 7/8" H

**SINGLE STAGE THERMOSTAT
RT4**

Single stage, wall-mounted digital thermostat for control of Friedrich VERT-I-PAK®.

**SINGLE STAGE THERMOSTAT
RT5**

Single stage, wall-mounted digital thermostat with two fan speeds and backlight for control of Friedrich VERT-I-PAK®.



RT4



RT5

**A better option outside**

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

SPECIFICATIONS

PERFORMANCE RATINGS				
Model	VEA09K	VEA12K	VEA18K	VEA24K
COOLING DATA				
COOLING Btu	9400/9000	11500/11200	17000/16500	23000/22700
POWER W	959/918	1162/1140	1882/1860	2421/2389
EER	9.8/9.8	9.8/9.8	9.0/9.0	9.5/9.5
SENSIBLE HEAT RATIO	0.74	0.72	0.70	0.70
HEATER SIZE	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0/10.0
HEAT PUMP DATA				
HEATING Btu	—	—	—	—
COP @ 47F	—	—	—	—
HEATING POWER W	—	—	—	—
HEATING CURRENT A	—	—	—	—
ELECTRICAL DATA				
VOLTAGE (1 PHASE, 60 Hz)	230/208	230/208	230/208	230/208
VOLT RANGE	253-198	253-198	253-198	253-198
COOLING CURRENT A	4.2/4.4	5.2/5.4	8.1/8.6	10.0/10.4
AMPS L.R.	22	30	42	34.8
AMPS F.L.	3.7	4.5	7.8	9.5
INDOOR MOTOR (HP)	1/4	1/4	1/4	1/4
INDOOR MOTOR A	1.2	1.2	1.2	1.94
OUTDOOR MOTOR (HP)	—	—	—	1/4
OUTDOOR MOTOR A	—	—	—	0.85
AIRFLOW DATA				
INDOOR CFM*	300	350	450	610
VENT CFM	60	60	60	60
MAX. ESP	.3"	.3"	.3"	.4"
PHYSICAL				
DIMENSIONS (W x D x H)	23" x 23" x 32"		23" x 23" x 47"	
NET WEIGHT (LBS)	114	124	144	167
SHIPPING WEIGHT (LBS)	125	135	155	220
TEST SETTING	Low	Low	High	Low
R410A CHARGE (oz)	33.5	32	48.1	65

VHA09K	VHA12K	VHA18K	VHA24K
9200/8900	11500/11200	17000/16800	23000/22800
939/908	1186/1155	1882/1860	2527/2505
9.8/9.8	9.7/9.7	9.1/9.1	9.1/9.1
0.74	0.72	0.70	0.70
2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0	2.5/3.4/5.0/10.0
8500/8000	10800/10600	16000/15000	20000/20000
3.0/3.0	3.0/3.0	3.0/3.0	3.0/3.0
830/811	1055/1035	1560/1540	1953/1953
3.6/3.9	4.6/4.9	7.5/8.2	8.5/9.4
230/208	230/208	230/208	230/208
253-198	253-198	253-198	253-198
4.1/4.3	5.3/5.5	8.2/8.6	10.6/10.9
18.5	26	42	34.8
3.6	5	7.8	9.5
1/4	1/4	1/4	1/4
1.2	1.2	1.2	1.94
—	—	—	1/4
—	—	—	0.85
300	420	450	610
60	60	60	60
.3"	.3"	.3"	.4"
23" x 23" x 32"		23" x 23" x 47"	
114	125	144	167
125	135	155	220
Low	High	High	Low
38.9	44	48	65

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.

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





Friedrich is a partner in the ENERGY STAR® program which promotes the conservation of energy and the protection of the environment through the purchase of high efficiency appliances.



F R I E D R I C H

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