

# DUCTLESS SPLIT SYSTEMS

WALL-MOUNTED | FLOOR/CEILING | CEILING-SUSPENDED | CEILING CASSETTE



F R I E D R I C H

1 8 8 3

SINGLE &  
MULTIZONE

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ALL  
INVERTER

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ENERGY  
SMART



115 volt residential-ready models

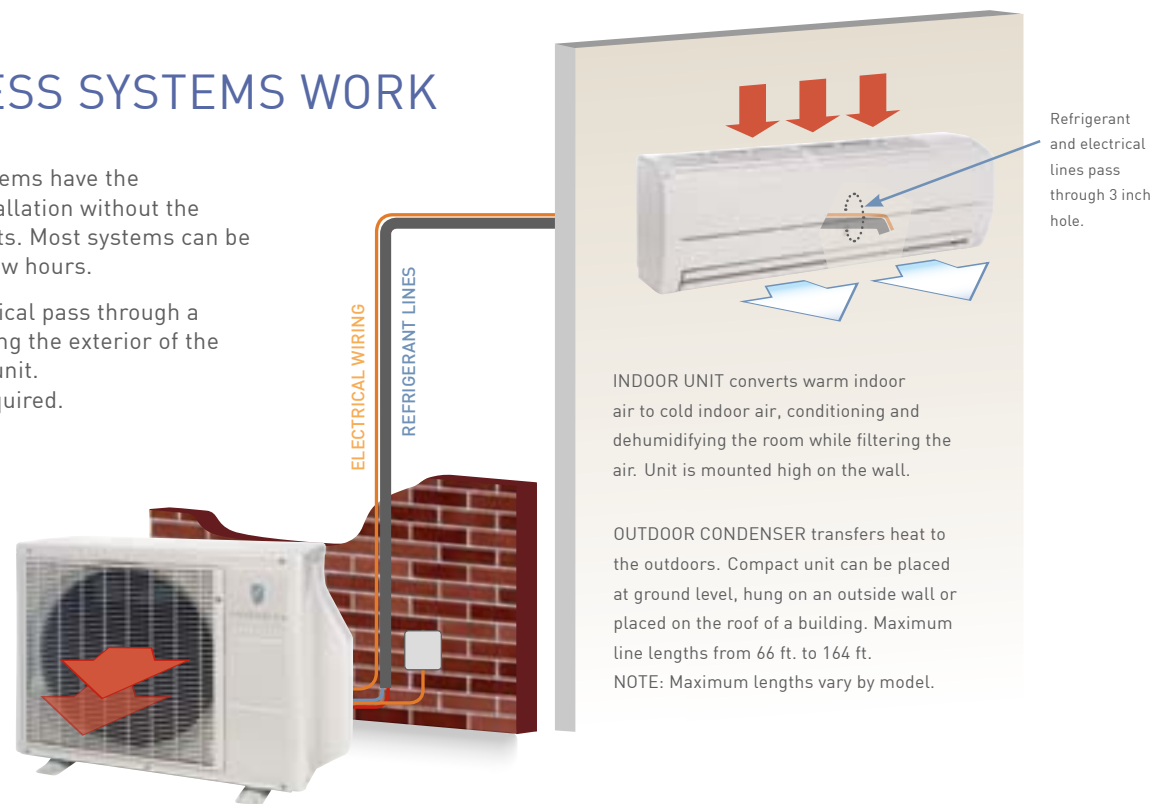


SUPER HIGH EFFICIENCY.  
VIRTUALLY SILENT

## 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.



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## HEAT & COOL 1, 2, 3 —UP TO 4 AREAS

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

Choose a single zone wall-mounted unit to condition one area or a multizone system for 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 multizone system.



Single zone ceiling cassette, universal floor/ceiling and ceiling cassette heat pumps with an extensive set of features.



## ALL-INVERTER LINE UP TO 22.0 SEER

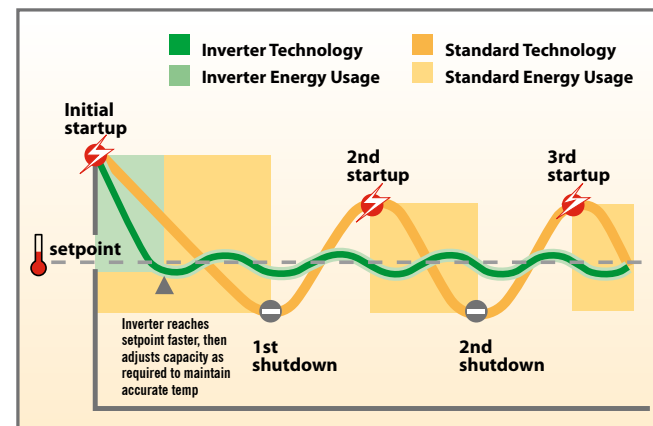
All Inverter models including desirable, 115 volt 9000 and 12000 Btu wall-mounted models.

Inverter technology lets you reach the desired temperature faster, maintain it more accurately, and reduce energy costs.

Inverter technology varies the compressor, the condenser and the indoor fan speeds, eliminating constant compressor start-ups/shut-downs that traditional technology requires to maintain the set temperature.

This is especially beneficial in multizone systems where room temperature set points vary and some indoor units may be turned off in unoccupied rooms.

Each system can adjust capacity and cooling output to provide only the amount of cooling needed at a given time. For example, an 18000 Btu system will operate even more efficiently as a 15500 if that is all that's needed.



## ENERGY SMART SOLUTIONS

The high efficiency and zone cooling abilities of ductless systems make them the smart choice to lower energy costs.



### Super energy efficiency

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 18000 Btu system will operate even more efficiently as a 15500 or less if that's all that's needed, reducing energy consumption and expenses.

### Virtually silent indoors and no ductwork to clean.

#### Extremely quiet

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

### 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.

### 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.

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## LIGHT COMMERCIAL AND RESIDENTIAL APPLICATIONS

Units can be installed high on the wall, well above eye level, on the ceiling or on the floor against the wall.

### COMMERCIAL

- Hotels and other lodging
- 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

### RESIDENTIAL

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

### Features you'll find on our ductless systems:

System Type	Wall-mounted Single Zone	Wall-mounted Multizone	Universal Floor/Ceiling	Ceiling-Suspended	Ceiling Cassette
Installation	On the wall	On the wall	On the ceiling or low against the wall	On the ceiling	Flush with ceiling
Cool only	Y	N	N	N	N
Heat pump	Y	Y	Y	Y	Y
115 volt models	Y	N	N	N	N
Inverter compressor	Y	Y	Y	Y	Y
SEER	Up to 22.0	Up to 16.5	15.0	14.0	15.0
Auto changeover	Y	Y	Y	Y	Y
Low ambient operation	Y	Y	Y	Y	Y
Programmable timer	24-hr.	24-hr.	24-hr.	24-hr.	24-hr.
Remote control	LCD	LCD	LCD	LCD	LCD
Auto restart when power is interrupted	Y	Y	Y	Y	Y
Continuous 'Air Sweep'	Y	Y	Y	Y	Y
Washable, antimicrobial air filters	Y	Y	Y	Y	Y
Auto shut flaps when unit is off	Y	Y	Y	Y	Y
Fan speeds	4-HEATING, 4-COOLING	4-HEATING, 4-COOLING	3-HEATING, 3-COOLING	3-HEATING, 3-COOLING	3-HEATING, 3-COOLING



Learn more about ductless @ [www.friedrich.com](http://www.friedrich.com)

*The Ultimate Room Air Conditioner*  
Our online video explains the advantages of Friedrich ductless splits

## WALL-MOUNTED SINGLE ZONE

## WALL-MOUNTED COOL-ONLY MODELS

NEW 9000 and 12000 Btu variable capacity models use 115V power for superior residential installation capability. Full line of 230V systems with 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: high, medium, low, quiet, plus autofan
- Multiple operating modes including: Auto, cool, dry (dehumidification) and fan only
- 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
- 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

115 V- Cool only  
9000 and 12000 Btu



LCD remote for total comfort control



MW09C1H, MW12C1H

MR09C1H, MR12C1H

230/208 V- Cool only  
18000 to 33000 Btu

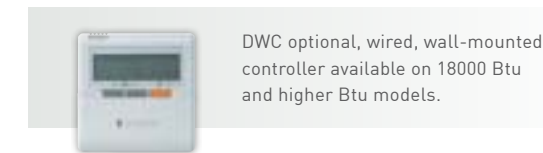


LCD remote for total comfort control



MW18C3F

MR18C3F



DWC optional, wired, wall-mounted controller available on 18000 Btu and higher Btu models.

### Cool only

MODEL	Btu	SEER
M09CH	9000	22.0
M12CH	12000	20.0
M18CF	18000	19.0
M24CG	24000	17.5
M30CG	30700	16.5
M36CG	33000	15.5



LCD remote for total comfort control



MW24C3G, MW30C3G, MW36C3G

MR24C3G, MR30C3G, MR36C3G

C = cooling capacity

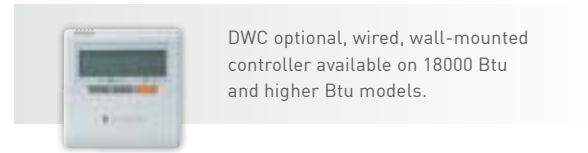
# WALL-MOUNTED SINGLE ZONE

## WALL-MOUNTED HEAT PUMPS

9000-24000 Btu inverter heat pumps with extensive features for comfort and convenience year 'round. In heating mode efficiently heats by using approximately 1/3 of the energy required by electric heat.

### 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 autofan
- 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 (System M24YH)



MW09Y3H, MW12Y3H MR09Y3H, MR12Y3H



MW18Y3H, MW24Y3H MR18Y3H, MR24C3H

230/208 V- Heat pump

C 8500 to 22000 Btu

H 10000 to 27600 Btu

### Heat pumps

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

C = cooling capacity  
H = heating capacity

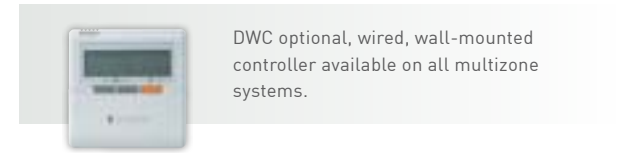
# WALL-MOUNTED MULTIZONE

## MULTIZONE FLEXIBILITY

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

### 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 autofan
- 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



### 1-2-3-4 ZONE HEAT PUMPS



Each unit has its own remote for individual comfort control



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

C = cooling capacity  
H = heating capacity

# DUCTLESS SPLIT SYSTEMS

## FLOOR/CEILING UNIVERSAL HEAT PUMP

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



### 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 autofan
- 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)



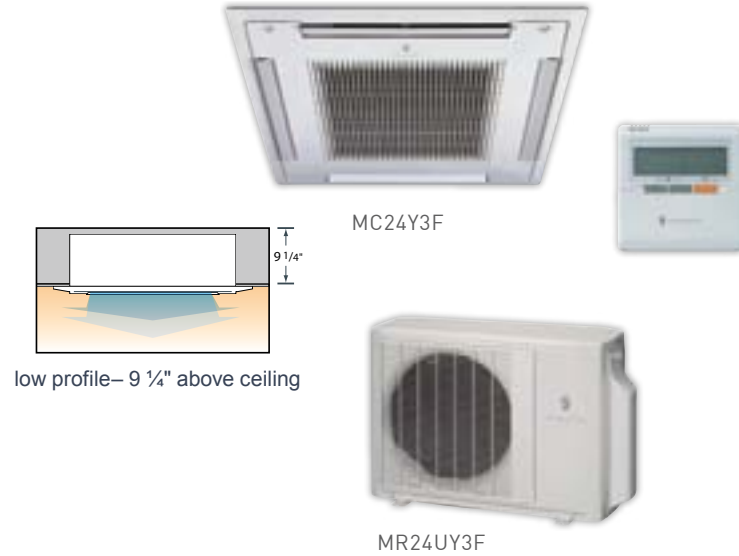
DWC optional, wired, wall-mounted controller available on Universal floor/ceiling model

### Heat pump

S24YF 22200 Btu 15.0 SEER  
 24200 Btu

## CEILING CASSETTE HEAT PUMP

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



### 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 autofan
- 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)

### Heat pump

C24YF 22200 Btu 15.0 SEER  
 24200 Btu

## CEILING-SUSPENDED HEAT PUMP

Almost 3 ton heat pump for conditioning large areas



### Comfort & Convenience

- LCD wireless remote and secured remote control holder
- Three fan speeds cooling or heating: high, medium, low, plus autofan
- 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)



DWC optional, wired, wall-mounted controller available on ceiling-suspended model.

### Heat pump

S36YF 34100 Btu 14.0 SEER  
 38200 Btu

# ACCESSORIES

## WIRED WALL-MOUNTED CONTROLLER



WIRED CONTROLLER	USED WITH
DWC	18000 Btu and larger models and all multizone 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, C24YF and S36YF 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 multizone 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 9000 Btu units, not 1 for the 18000 Btu product.

# SPECIFICATIONS

## WALL-MOUNTED COOL ONLY

PERFORMANCE RATINGS							
SYSTEM MODEL NO.		M09CH	M12CH	M18CF	M24CG	M30CG	M36CG
INDOOR MODEL		MW09C1H	MW12C1H	MW18C3F	MW24C3G	MW30C3G	MW36C3G
OUTDOOR MODEL		MR09C1H	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		7.0	10.0	7.7	10.5	14.2	17.3
SENSIBLE HEAT RATIO		0.75	0.75	0.63	0.76	0.65	0.67
SEER		22.0	20.0	19.0	17.5	16.5	15.5
EER		14.0	13.0	10.4	10.0	9.5	8.5
ENERGY STAR		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	250/290/310/335	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
OPERATING RANGE	°F	32-115	32-115	14-115	14-115	14-115	14-115
EST. YEARLY OPERATING COST		\$51	\$74	\$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	640	920	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 23 1/2" x 12 5/8"	33 3/8" x 23 1/2" 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	88	88	88	135	135
SHIPPING WEIGHT	lbs	90	97	98	97	150	150
TOTAL NET WEIGHT	lbs	104	112	109	119	166	166
TOTAL SHIPPING WEIGHT	lbs	122	129	124	137	190	190

\*Recommended circuit breaker size 20A.

# SPECIFICATIONS

## 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
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'	49'	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

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
OPERATING 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 151	151		151
SHIPPING WEIGHT	lbs 164	164		164

## QUAD-ZONE HEAT PUMP

PERFORMANCE RATINGS	
SYSTEM MODEL NO.	
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	
52	
0 - 115 (14 - 75)	
\$312	
ELECTRICAL DATA (ALL INDOOR UNITS RECEIVE POWER FROM OUTDOOR UNIT; VALUES LISTED ARE TOTAL)	
230/208-60-1	
22.5	
3900	
30	
REFRIGERATION SYSTEM	
R410A	
Inverter	
Flare	
1/4"	
3/8"	
165'	
Each unit:82 Total:230	
49'	
DIMENSIONS & WEIGHT	
INDOOR UNIT	
31 1/8" x 10 7/8" x 8 1/2" ea.	
21 ea.	
26 ea.	
OUTDOOR UNIT	
35 3/8" x 32 5/8" x 13"	
159	
172	

# SPECIFICATIONS

## 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	
OPERATING 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		4200		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 159	159		159		159		159	
SHIPPING WEIGHT	lbs 172	172		172		172		172	



# SPECIFICATIONS

## 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	20,100	27,100	20,100
HSPF		8.5	8.5	8.5
SEER		15.0	14.0	15.0
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
OPERATING 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.



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Friedrich Air Conditioning Co. | 10001 Reunion Place, Suite 500 | San Antonio, TX 78216 | 877.599.5665 | www.friedrich.com

