



DUCTLESS SPLIT SYSTEMS
AIR CONDITIONERS | HEAT PUMPS



The ultimate room air conditioner

Easy to install. Exceptionally quiet. Totally flexible.

Ductless splits are an innovative and efficient alternative to window and thru-the-wall units. They have the benefits of a central system, without the difficulty and expense of installing ductwork. These are only a few of the benefits of ductless...

- Unobstructed window views.
- No need to uninstall and store unit during the winter.
- Independently-controlled zone cooling means up to four separate indoor units working from a single outdoor unit.
- Save money by turning off units in unoccupied rooms.
- Set room temperatures based on individual preferences, instead of one-size-fits-all.



simple installation

Friedrich ductless split systems have the advantages of a ducted installation without the high material and labor costs. Absolutely no ductwork is required, so most systems can be installed and running in a few hours.

SEER ratings up to 19.0

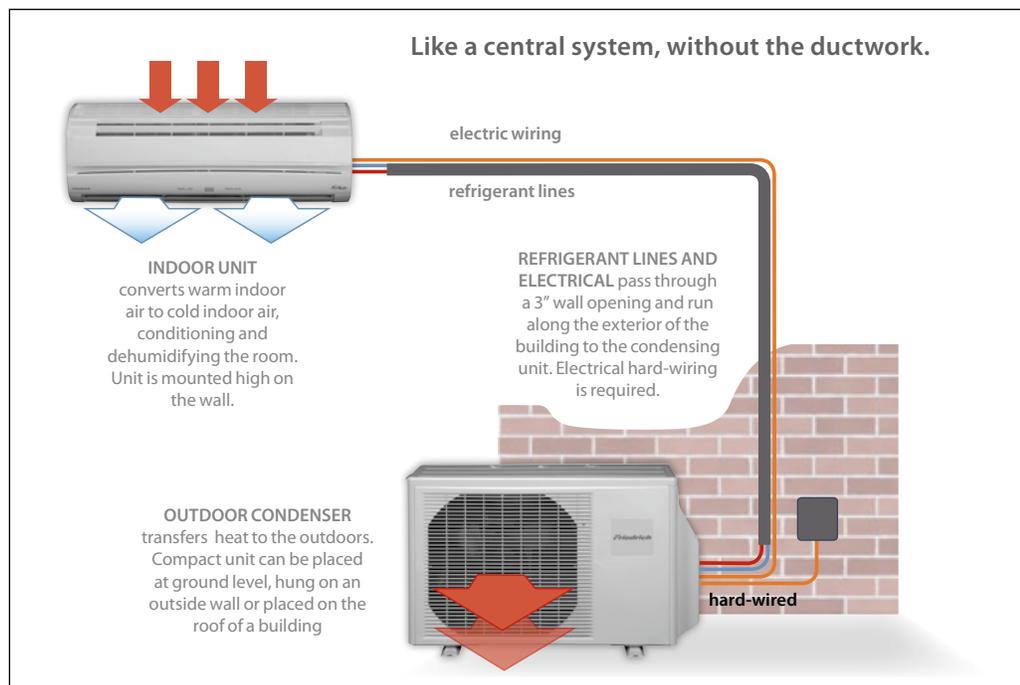
All Friedrich ductless models exceed the federal 13.0 SEER requirements. And, a full one-third of our models have super high ratings ranging from 16.5 to 19.0 SEER significantly outperforming 13 SEER product on energy savings.

extremely quiet

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

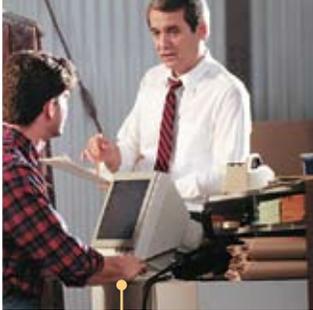


The indoor unit and outdoor unit are connected by refrigerant and power lines, through a small three-inch hole in the exterior wall.





zone 4
prefers
76°



zone 3
constant
temperature
changes



zone 2
attending
seminar, unit
turned off

zone 1
70° in
conference
room



Multi-zone flexibility.

multiple configuration choices

Over 20 single, dual, tri- and quad-zone systems provide a wide range of heating and cooling options for even the toughest remodels, additions and improvements. A new level of system flexibility and control is at your fingertips on Friedrich single and multi-zone systems.

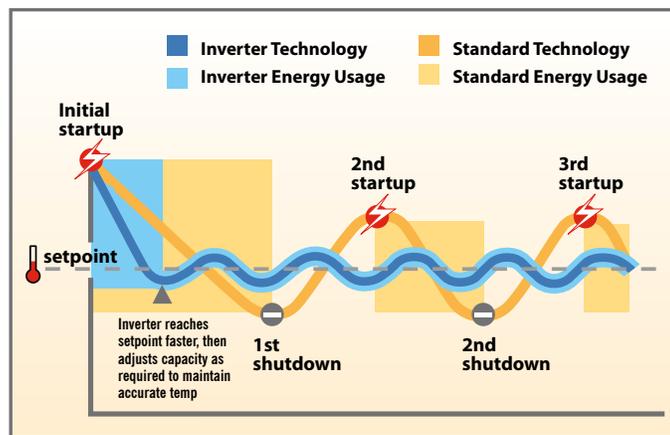
advanced inverter technology

Inverter Technology lets you reach the desired temperature faster, maintain it more accurately, and reduce energy costs. It eliminates constant compressor start-ups/shut-downs that traditional technology requires to maintain the set temperature.

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/h system will operate even more efficiently as a 15,500 if that is all that's needed.



Precise comfort from one system in up to four different rooms. That's the beauty- and efficiency of a Friedrich Multi-Zone system.

Commercial applications including restaurant dining areas and kitchens

residential applications

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

commercial applications

- 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



A multi-zone system allows you to condition up to four rooms or areas.

Each indoor unit can be independently controlled for optimum flexibility, best comfort and increased energy savings.



Fully featured and fully programmable for total convenience

Auto-shut flaps close when unit is off for a sleeker appearance.

The continuous 'Air Sweep' auto louvers gently distribute cool or warm air throughout the room.

Auto-changeover on heat pump models automatically switches the unit from cool to heat; or from heat to cool to maintain desired temperature.

C = cooling capacity
H = heating capacity

Wall-mounted single zone

One wall-mounted indoor unit connected to one outdoor unit.

features

- Auto swing louvers (up/down)
- Continuous 'Air Sweep'
- Auto-restart after power interruptions
- Auto-shut flaps close when unit is off for a sleeker appearance
- Washable, reusable air filters
- Removable front grille
- Auto-changeover (heat pump models)

1



wireless remote

- Remote for each indoor unit
- 24-hour timer and sleep timer
- Auto/cool/dry/fan/heat* modes
- Four fan speeds heating* or cooling: high/medium/low/quiet, plus auto-fan
- Secured remote control holder
- Four different transmitter codes to prevent unintentional interference with nearby units



* Heat pump models only

Pictured: Single zone model MW24CF indoor unit. Multi-zone system M36QYF. Appearance varies by model.

Wall-mounted multi-zone heat pump

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

features

- Auto swing louvers (up/down)
- Continuous 'Air Sweep'
- Auto-restart after power interruptions
- Auto-shut flaps close when unit is off
- Washable, reusable air filters
- Removable front grille
- Auto-changeover
- Low-ambient operation

2

3

4



multi-zone cool/heat pump

zone 1 zone 2 zone 3 zone 4

cool only

model	btu/h	seer
C M09CF	9700	14.3
C M12CF	12300	13.5
C M18CF	18000	19.0
C M24CF	24200	18.0
C M30CF	30700	15.0

cool/ heat pump

model	btu/h	seer
C M09YF	9700	14.3
H M09YF	9600	
C M12YF	12300	13.7
H M12YF	12800	
C M18YF	18000	19.0
H M18YF	21600	
C M24YF	24200	18.0
H M24YF	27600	

model	btu/h				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	

Floor/ceiling universal heat pump

Universal system may be located low against the wall or on the ceiling.

features

- Auto swing louvers (up/down, left/right)
- Continuous 'Air Sweep'
- Auto-restart after power interruptions
- Auto-shut flaps close when unit is off for a sleeker appearance
- Washable, reusable air filters
- Fresh air capability

wireless remote

- 24-hour timer and sleep timer
- Auto/cool/dry/fan/heat modes
- Three fan speeds heating or cooling: high/medium/low, plus auto-fan
- Four different transmitter codes
- Secured remote control holder
- Self-diagnostics



cool/ heat pump

S24YF  22,200 BTU/h 15.0 SEER
 24,200 BTU/h



Ceiling cassette heat pump

features

- Auto-swing louvers (up/down)
- Continuous 'Air Sweep'
- Auto-restart after power interruptions
- Auto-changeover
- Washable, reusable air filters
- Low-ambient operation
- Fresh air intake
- Two branch ducts for adjoining rooms (requires additional fan)
- Condensate pump: 31" lift
- Auto-shut flaps close when unit is off



low profile— 9 1/4" above ceiling

wired remote

- Seven-day programmable on/off timer controls up to 16 units— individually or by zones
- Auto/cool/dry/fan/heat modes
- Self-diagnostics
- Three fan speeds heating or cooling: high/medium/low, plus auto-fan

cool/ heat pump

C24YF  22,200 BTU/h 15.0 SEER
 24,200 BTU/h

Ceiling suspended heat/cool

features

- Auto swing louvers (up/down, left/right)
- Continuous 'Air Sweep'
- Auto-restart after power interruptions
- Auto-shut flaps
- Washable, reusable air filters
- Fresh air capability
- Low-ambient operation
- Optional DP-36 condensate pump



wireless remote

- 24-hour timer and sleep timer
- Auto/cool/dry/fan/heat modes
- Three fan speeds heating or cooling: high/medium/low, plus auto-fan

- Four different transmitter codes
- Secured remote control holder
- Self-diagnostics

cool/ heat pump

S36YF  34,100 BTU/h 14.0 SEER
 38,200 BTU/h



wall mounted cooling

ⓘ Inverter model

PERFORMANCE RATINGS						
SYSTEM MODEL NO.		M09CF	M12CF	M18CF ⓘ	M24CF ⓘ	M30CF ⓘ
INDOOR MODEL		MW09C1F	MW12C1F	MW18C3F	MW24C3F	MW30C3F
OUTDOOR MODEL		MR09C1F	MR12C1F	MR18C3F	MR24C3F	MR30C3F
Capacity Cooling	BTU/h	9700	12300	18000	24200	30700
SEER		14.3	13.5	19.0	18.0	15.0
Moisture Removal	Pts/h	2.1	3.2	5.9	5.3	9.7
Airflow (Quiet, Low, Med, High)	CFM	185/220/260/295	215/250/305/355	240/290/355/415	380/450/560/650	380/450/560/650
Sound Rating - Indoor	dB-A	26/31/36/40	28/35/40/45	25/32/38/44	32/36/41/47	32/36/41/47
Sound Rating - Outdoor	dB-A	43	45	50	52	53
Operating Range	°F	0 - 115	0 - 115	0 - 115	0 - 115	0 - 115
ELECTRICAL DATA						
Power Source		115-60-1	115-60-1	230/208-60-1	230/208-60-1	230/208-60-1
Min. Ampacity	A	12	15	16	21	22
Cooling Watts	W	820	1060	1730	2310	3460
Max. TD Fuse/Breaker	A	15	20	20	30	30
REFRIGERATION SYSTEM						
Refrigerant		R410A	R410A	R410A	R410A	R410A
Compressor Type		Rotary	Rotary	Inverter	Inverter	Inverter
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	1/2	5/8	5/8
Factory Precharge	ft	25	25	49	49	66
Max. Line Length	ft	49	49	66	98	164
Max. Height Difference	ft	26	26	49	66	98
DIMENSIONS & WEIGHT						
INDOOR UNIT						
W x H x D	in	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	39 1/4 x 12 5/8 x 9	39 1/4 x 12 5/8 x 9
Net Weight	lbs	21	21	21	31	31
Shipping Weight	lbs	26	26	26	40	40
OUTDOOR UNIT						
W x H x D	in	31 1/8 x 21 1/4 x 11 3/8	31 1/8 x 21 1/4 x 11 3/8	31 1/8 x 22 3/4 x 12 3/8	31 1/8 x 22 3/4 x 12 3/8	35 3/8 x 32 5/8 x 13
Net Weight	lbs	68	77	88	97	137
Shipping Weight	lbs	77	86	98	106	155

wall mounted heat pumps

PERFORMANCE RATINGS						
SYSTEM MODEL NO.		M09YF	M12YF	M18YF ⓘ	M24YF ⓘ	
INDOOR MODEL		MW09Y1F	MW12Y1F	MW18Y3F	MW24Y3F	
OUTDOOR MODEL		MR09Y1F	MR12Y1F	MR18Y3F	MR24Y3F	
Capacity Cooling	BTU/h	9700	12300	18000	24200	
Capacity Heating @ 47°F	BTU/h	9600	12800	21600	27600	
Capacity Heating @ 17°F	BTU/h	7600	9900	16600	21000	
HSPF		8.2	8.2	10	10	
SEER		14.3	13.7	19.0	18.0	
Moisture Removal	Pts/h	2.1	3.2	5.9	5.3	
Airflow (Quiet, Low, Med, High)	CFM	185/220/260/295	215/250/305/355	240/290/355/415	380/450/560/650	
Sound Rating - Indoor	dB-A	26/31/36/40	28/35/40/45	25/32/38/44	32/36/41/47	
Sound Rating - Outdoor	dB-A	43	45	50	52	
Operating Range COOL (HEAT)	°F	0 - 115 (17-75)	0 - 115 (17-75)	0 - 115 (5-75)	0 - 115 (5-75)	
ELECTRICAL DATA						
Power Source		115-60-1	115-60-1	230/208-60-1	230/208-60-1	
Min. Ampacity	A	12	15	16	21	
Cooling Watts	W	820	1070	1730	2310	
Max. TD Fuse/Breaker	A	15	20	20	30	
REFRIGERATION SYSTEM						
Refrigerant		R410A	R410A	R410A	R410A	
Compressor Type		Rotary	Rotary	Inverter	Inverter	
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	1/2	5/8	
Factory Precharge	ft	25	25	49	49	
Max. Line Length	ft	49	49	66	98	
Max. Height Difference	ft	26	26	49	66	
DIMENSIONS & WEIGHT						
INDOOR UNIT						
W x H x D	in	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	39 1/4 x 12 5/8 x 9	
Net Weight	lbs	21	21	21	31	
Shipping Weight	lbs	26	26	26	40	
OUTDOOR UNIT						
W x H x D	in	31 1/8 x 21 1/4 x 11 3/8	31 1/8 x 21 1/4 x 11 3/8	31 1/8 x 22 3/4 x 12 3/8	31 1/8 x 22 3/4 x 12 3/8	
Net Weight	lbs	71	79	88	97	
Shipping Weight	lbs	79	88	98	106	

dual-zone heat pumps

inverter model

quad-zone heat pumps

PERFORMANCE RATINGS						
SYSTEM MODEL NO.	M18DYF ①		M21DYF ①		M24DYF ①	
INDOOR MODEL	2 x MW09Y3FM		MW09Y3FM	MW12Y3FM	2 x MW12Y3FM	
OUTDOOR MODEL	MR24DY3F		MR24DY3F		MR24DY3F	
Capacity Cooling BTU/h	9500 ea.		9500 ea.	12000	12000 ea.	
Capacity Heating @ 47°F BTU/h	11000 ea.		11000 ea.	14000	14000 ea.	
Capacity Heating @ 17°F BTU/h	9500 ea.		9500 ea.	11000	10500 ea.	
HSPF	9.0		9.0		9.0	
SEER	16.5		16.5		16.5	
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 COOL (HEAT) °F	0 - 115 (14-75)		0 - 115 (14-75)		0 - 115 (14-75)	
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	

tri-zone heat pumps

PERFORMANCE RATINGS									
SYSTEM MODEL NO.	M27TYF ①		M30TYF ①		M33TYF ①		M36TYF1 ①		M36TYF2 ①
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/h	9200 ea.		9300 ea.	11800	9400	11800 ea.	9100 ea.	17000	11700 ea.
Capacity Heating @ 47°F BTU/h	11200 ea.		11000 ea.	14000	10700	13600 ea.	9800 ea.	18400	12700 ea.
Capacity Heating @ 17°F BTU/h	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
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 COOL (HEAT) °F	0 - 115 (14-75)		0 - 115 (14-75)		0 - 115 (14-75)		0 - 115 (14-75)		0 - 115 (14-75)
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:82 Total: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	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

ceiling and floor/ceiling universal heat pumps

① inverter model

	floor/ceiling universal	ceiling suspended	ceiling cassette
PERFORMANCE RATINGS			
SYSTEM MODEL NO.	S24YF ①	S36YF ①	C24YF ①
INDOOR MODEL	MS24Y3F	MS36Y3F	MC24Y3F
OUTDOOR MODEL	MR24UY3F	MR36Y3F	MR24UY3F
Capacity Cooling	BTU/h 22200	34100	22200
Capacity Heating @ 47°F	BTU/h 24200	38200	24200
Capacity Heating @ 17°F	BTU/h 20100	27100	20100
HSPF	8.5	8.5	8.5
SEER	15.0	14.0	15.0
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 COOL (HEAT)	°F 0 to 115 (14-75)	0 to 115 (14-75)	0 to 115 (14-75)
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

refrigeration line sets

USED WITH:	LENGTH-FT.	LIQUID	SUCTION	KIT#
All 9000 and 12000 BTU/h Indoor Units	15	1/4"	3/8"	T32150
	35	1/4"	3/8"	T32350
All 18000 BTU/h Indoor Units	15	1/4"	1/2"	T42150
	35	1/4"	1/2"	T42350
All MW24Y3F and MW24C3F Units	15	1/4"	5/8"	T52150
	35	1/4"	5/8"	T52350
All 30000 BTU/h Indoor Units and S24YF, S36YF and C24YF Units	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.

DRAIN PUMP	USED WITH
DP-36	S36YF

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.

