



Ductless Split Systems

Wall-Mounted Multi-zone

PURCHASER	P.O. #	DATE
PROJECT	LOCATION	
ENGINEER	ARCHITECT	
SUBMITTED BY	FOR APPROVAL	FOR REFERENCE

ITEM	PLAN DESIGNATION	QUANTITY	COOLING BTU/H	VOLTAGE	FRIEDRICH MODEL

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

Cool multiple rooms or use for backup systems in remote areas. Each indoor unit has its own remote control and is independently controlled for optimum zone cooling flexibility.

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

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



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

dual-zone heat pumps

 inverter model

quad-zone heat pumps

PERFORMANCE RATINGS						
SYSTEM MODEL NO.		M18DYF ⓘ	M21DYF ⓘ		M24DYF ⓘ	M36QYF ⓘ
INDOOR MODEL		2 x MW09Y3FM	MW09Y3FM	MW12Y3FM	2 x MW12Y3FM	4 x MW09Y3FM
OUTDOOR MODEL		MR24DY3F	MR24DY3F		MR24DY3F	MR36TQY3F
Capacity Cooling	BTU/h	9500 ea.	9500 ea.	12000	12000 ea.	8800 ea.
Capacity Heating @ 47°F	BTU/h	11000 ea.	11000 ea.	14000	14000 ea.	9500 ea.
Capacity Heating @ 17°F	BTU/h	9500 ea.	9500 ea.	11000	10500 ea.	6600 ea.
HSPF		9.0	9.0		9.0	9.0
SEER		16.5	16.5		16.5	15.0
Moisture Removal	Pts/h	2.9 ea.	2.9 ea	3.7 ea.	3.7 ea.	2.9 ea.
Airflow (Quiet, Low, Med, High)	CFM	185/220/260/295	185/220/260/295	215/250/305/355	215/250/305/355	185/220/260/295
Sound Rating - Indoor	dB-A	27/29/33/37	27/29/33/37	30/34/39/42	30/34/39/42	27/29/33/37
Sound Rating - Outdoor	dB-A	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)
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
Min. Ampacity	A	15	15		15	22.5
Cooling Watts	W	1600	1900		2300	3900
Max. TD Fuse/Breaker	A	20	20		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	1/4	1/4	1/4
Suction Line O.D.	in	3/8	3/8	3/8	3/8	3/8
Factory Precharge	ft	98	98		98	165
Max. Line Length	ft	Each unit:82 Total:98	Each unit:82 Total:98		Each unit:82 Total:98	Each unit:82 Total:230
Max. Height Difference	ft	33	33		33	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 ea.	31 1/8 x 10 7/8 x 8 1/2 ea.
Net Weight	lbs	21 ea.	21	21	21 ea.	21 ea.
Shipping Weight	lbs	26 ea.	26	26	26 ea.	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
Net Weight	lbs	151	151		151	159
Shipping Weight	lbs	164	164		164	172

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/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	