

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

ITEM	PLAN DESIGNATION	QUANTITY	COOLING BTU/H	VOLTAGE	FRIEDRICH MODEL

Features

- Inverter technology (variable speed compressor)
- High efficiency for low operating cost
- DiamonGold Advanced Corrosion Protection™
- Self-cleaning indoor coil
- Cooling/Heating/Fan mode
- Surge Cool/Heat
- Natural air flow
- 4-Way auto swing
- Ultra quiet operation
- Sleep mode
- Dry mode
- Auto restart
- Built-in low ambient standard, down to 14°F (Cooling Mode)
- 24-hour on/off timer
- Built-in kick stand
- BLDC Motor



WIRELESS
REMOTE CONTROL



MW09Y3J, MW12Y3J



MW18Y3J

All Inverter line



MR24DY3JMA



MR36TQY3JMA



MR48DEY3JM

PERFORMANCE RATINGS		Multizone Wall-Mounted - Heat Pumps		
		9k	12k	18k
INDOOR MODEL		MW09Y3J	MW12Y3J	MW18Y3J
SPECIFICATIONS				
CAPACITY COOLING (RATED)	Btu	9,000	11,200	17,000
CAPACITY HEATING (RATED)	Btu	10,800	13,300	20,200
MOISTURE REMOVAL	Pts/h	2.3	2.7	4.2
AIRFLOW (QUIET, LOW, MED, HIGH)	CFM	124/212/272/335	124/212/272/335	300/399/509/622
SOUND RATING - INDOOR	dB-A	19 / 24 / 33 / 38	19 / 24 / 33 / 39	29 / 35 / 40 / 45
ELECTRICAL DATA				
POWER SOURCE	V, Ø, Hz	230/208-60-1	230/208-60-1	230/208-60-1
REFRIGERATION SYSTEM				
CONNECTIONS		Flare	Flare	Flare
LIQUID LINE O.D.	in	1/4	1/4	1/4
SUCTION LINE O.D.	in	3/8	3/8	1/2
DIMENSIONS & WEIGHT				
W X H X D	in	35-1/4 x 11-1/4 x 8-1/4	35-1/4 x 11-1/4 x 8-1/4	40-5/8 x 12-7/8 x 9-5/8
NET WEIGHT	lbs	23	23	31
SHIPPING WEIGHT	lbs	27	27	40

PERFORMANCE RATINGS		Multi Outdoor	
		24k	36k
OUTDOOR MODEL		MR24DY3JM	MR36TQY3JM
SPECIFICATIONS			
POWER SOURCE		208/230/60/1	208/230/60/1
EST. YEARLY OPERATING COST	\$	122-125	170-245
RUNNING CURRENT COOLING MIN.-RATED-MAX.	A	2.8-6.6-14.0	3.3-11.8-17.0
RUNNING CURRENT HEATING MIN.-RATED-MAX.	A	3.0-10.2-14.1	4.9-15.5-17.8
POWER INPUT COOLING MIN.-RATED-MAX.	W	390-1430-3090	770-2720-3920
POWER INPUT HEATING MIN.-RATED-MAX.	W	420-2210-3100	1120-3580-4100
POWER AND COMMUNICATION CABLE	No. x AWG	4 X 14	4 X 14
DIMENSIONS W X H X D	inch	34-1/4 x 31-7/8 x 12-5/8	35-7/16 x 45-7/8 x 14-5/8
NET WEIGHT	lbs	130	209
SHIPPING WEIGHT	lbs	139	223
REFRIGERATION SYSTEM			
REFRIGERANT		R410A	R410A
FACTORY PRECHARGE	ft	74	98
REFRIGERANT CHARGE	oz	74	124
LIQUID LINE O.D.	in	1/4	1/4
SUCTION LINE O.D.	in	3/8	3/8
MIN./MAX. LINE LENGTH (EACH)	ft	10-82	10-82
MIN./MAX. LINE LENGTH (TOTAL)	ft	75-246	75-246
MAX. HEIGHT DIFFERENCE	ft	49	49
SOUND PRESSURE LEVEL COOLING	A	51	57
SOUND PRESSURE LEVEL HEATING	A	51	57
OPERATING RANGE COOLING MIN. ~ MAX.	°F DB	14 ~ 114	14 ~ 114
OPERATING RANGE HEATING MIN. ~ MAX.	°F WB	5 ~ 64	5 ~ 64
MINIMUM AMPACITY	A	15	17
MAX. TD FUSE/BREAKER	A	25	25

*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 male 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.

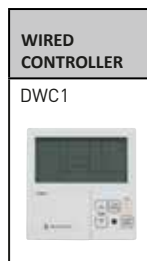
Your operating costs will depend on your utility rates and use. The estimated operating cost is based on a electricity cost of \$.115 per kWh. For more information, visit www.ftc.gov/energy.

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

Refrigeration line sets*

USED WITH	Length Ft.	Liquid	Suction	Kit#
9000 and 12000 BTU indoor units	15'	1/4"	3/8"	T32150
	35'	1/4"	3/8"	T32350
18000 BTU indoor units	15'	1/4"	1/2"	T42150
	35'	1/4"	1/2"	T42350
24000,30000 and 36000 BTU indoor units	15'	3/8"	5/8"	T53150
	35'	3/8"	5/8"	T53350

Optional Thermostat

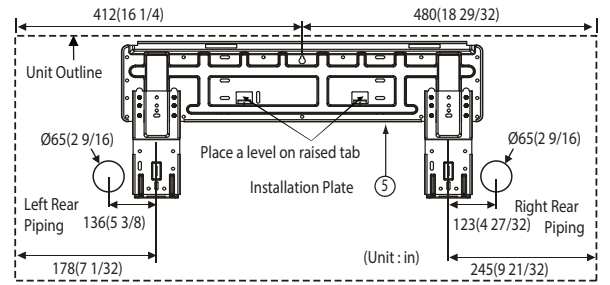
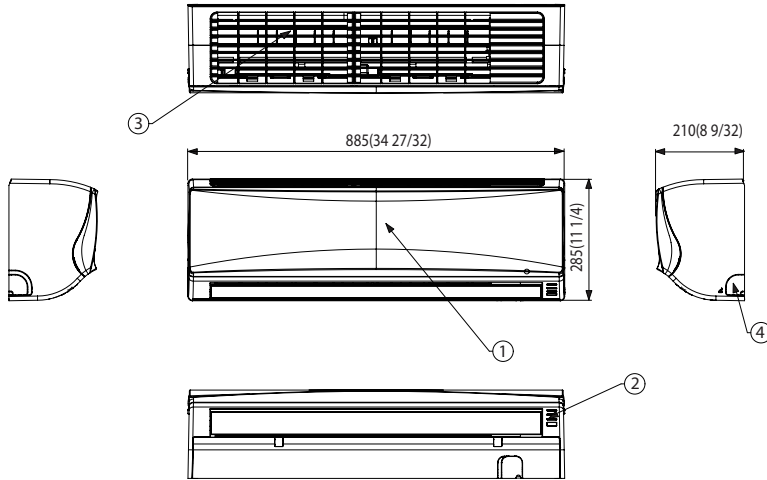


Works with all Friedrich models.



DIMENSIONAL DRAWINGS

INDOOR UNITS / MW09Y3J, MW12Y3J



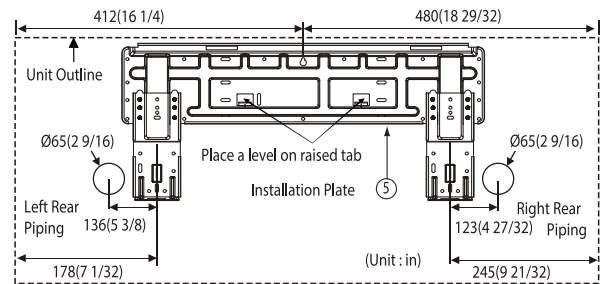
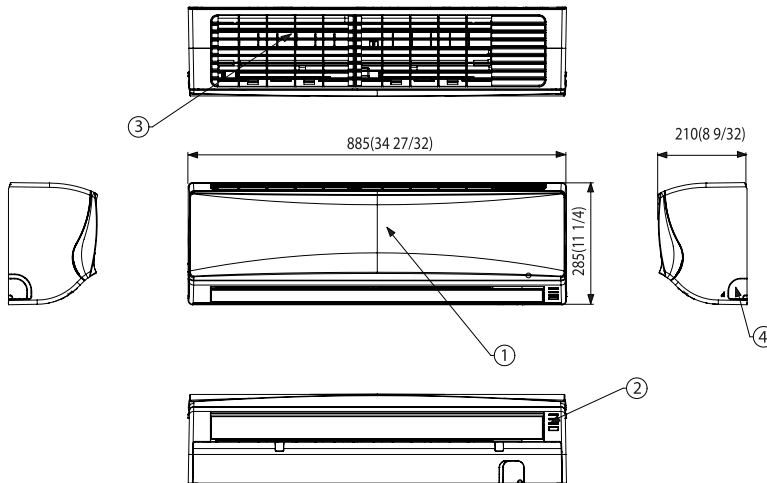
Unit: inch (mm)

Item No.	Part Name	Remark
1	Air discharge grille	
2	Gas pipe connection	
3	Liquid pipe connection	
4	Power & transmission connection	
5	Earth screw	
6	Main service valve (Liquid)	
7	Main service valve (Gas)	

Note

1. Unit should be installed in compliance with the installation manual in the product box.
2. Unit should be grounded in accordance with the local regulations or applicable national codes.
3. All electrical components and materials to be supplied on the site must comply with local regulations or international codes.
4. Electrical characteristics chapter should be considered for electrical work and design. Especially the capacity of power cable and circuit breaker for outdoor units should be more than that of electrical characteristics chapter.

INDOOR UNITS / MW18Y3J



Unit: inch (mm)

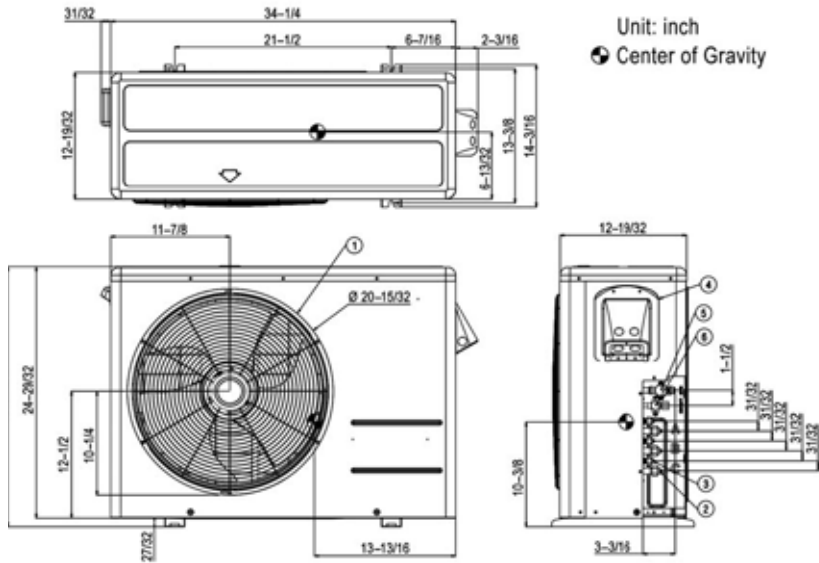
Item No.	Part Name	Remark
1	Front Panel	
2	Display & Signal Receiver	
3	Air Suction Grille	
4	Knockout Hole	For pipe and cable
5	Installation Plate	

Note

1. The unit should be installed according to installation manual which is in the product box.
2. The unit is powered from the outdoor unit. So power cable should be connected with the outdoor unit.

DIMENSIONAL DRAWINGS

OUTDOOR UNITS / MR24DY3JMA

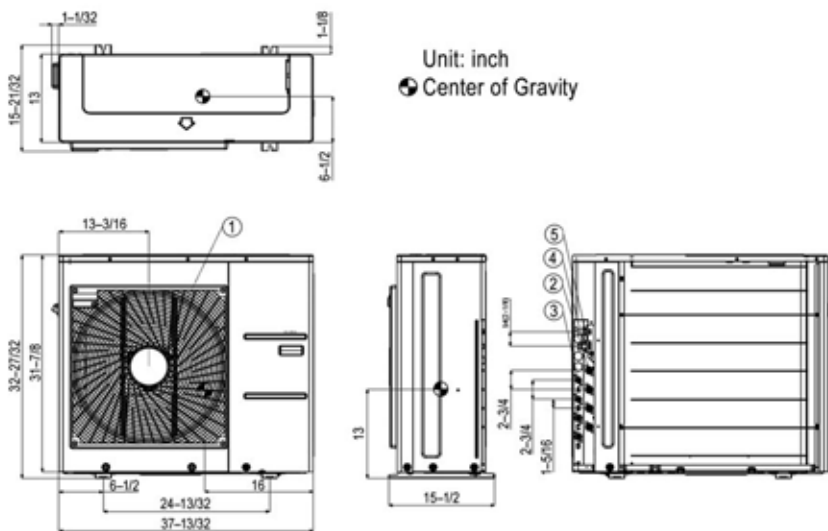


Item No.	Part Name
1	Air Discharge Grille
2	Gas Pipe Connection
3	Liquid Pipe Connection
4	Power and Transmission Connection
5	Main Service Valve (Gas)
6	Main Service Valve (Liquid)

Note

- Unit should be installed in compliance with the installation manual in the product box.
- Unit should be grounded in accordance with the local regulations or applicable national codes.
- All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.
- Electric characteristics chapter should be considered for electrical work and design. Especially, the power cable and circuit breaker should be selected in accordance with that.

OUTDOOR UNITS / MR36TQY3JMA



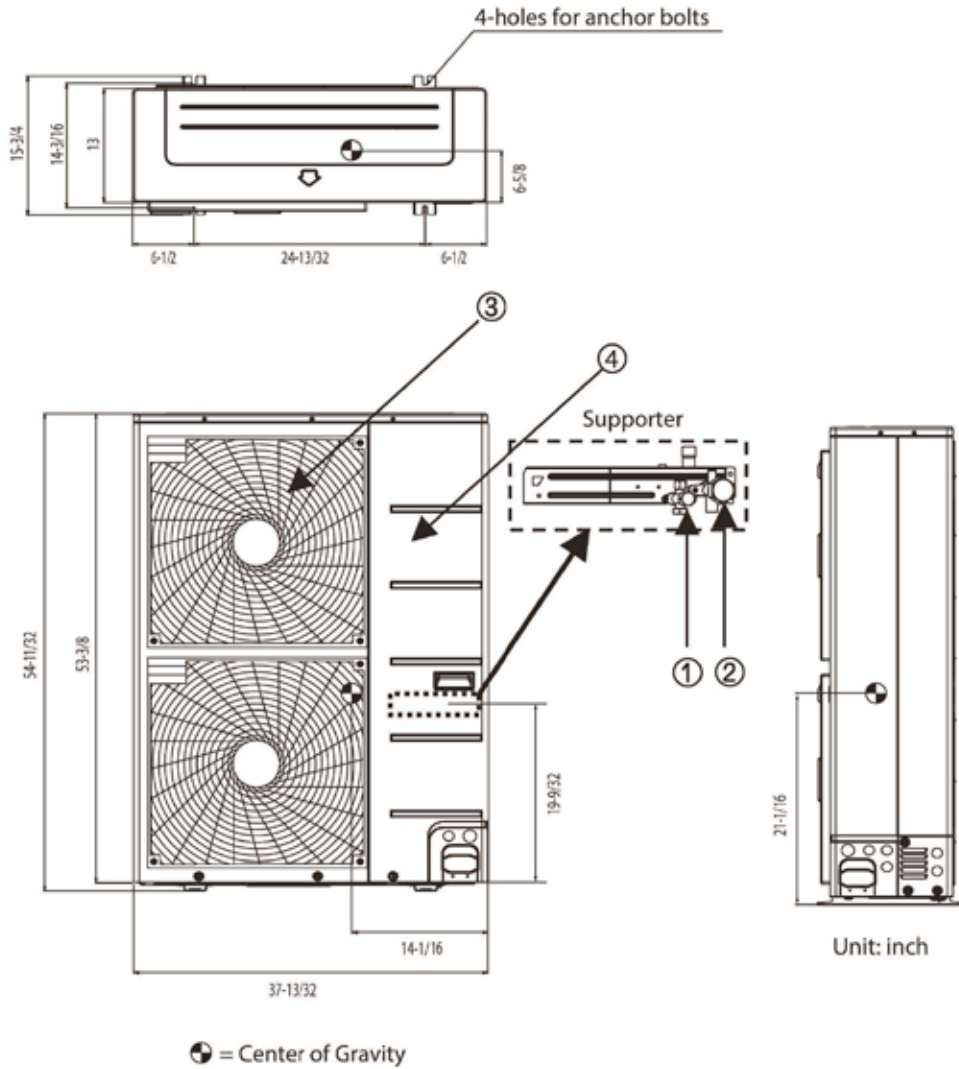
Item No.	Part Name
1	Air discharge grille
2	Gas pipe connection
3	Liquid pipe connection
4	Main Service Valve (Liquid)
5	Main Service Valve (Gas)

Note

- Unit should be installed in compliance with the installation manual in the product box.
- Unit should be grounded in accordance with the local regulations or applicable national codes.
- All electrical components and materials to be supplied on the site must comply with the local regulations or international codes.
- Electrical characteristics chapter should be considered for electrical work and design. Especially the capacity of power cable and circuit breaker for outdoor unit should be more than that of electrical characteristics chapter.

DIMENSIONAL DRAWINGS

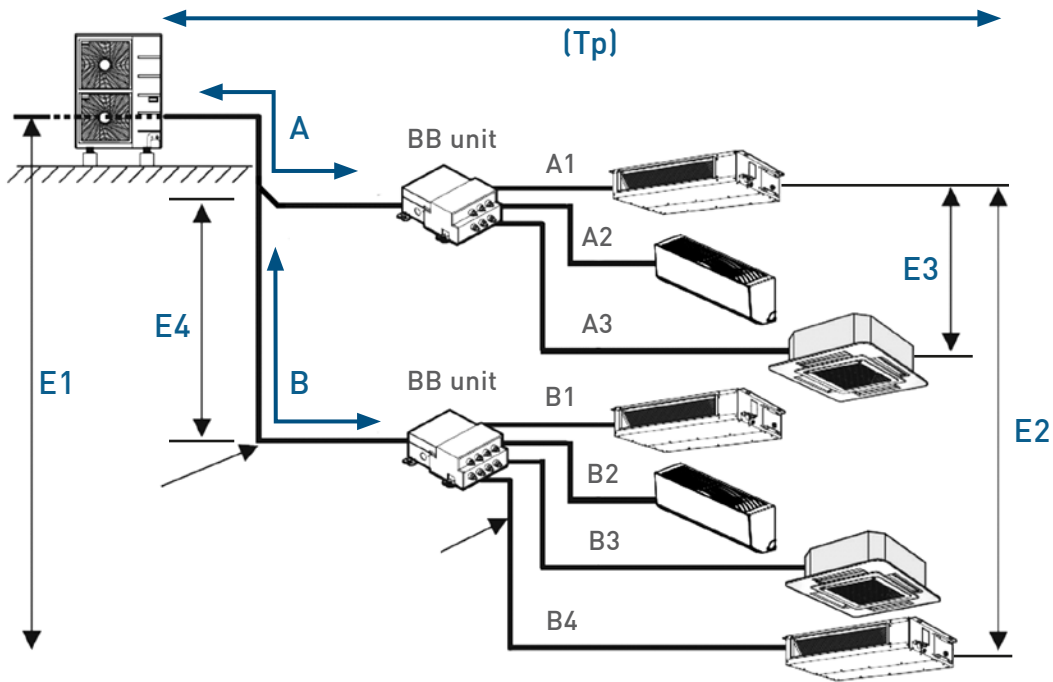
OUTDOOR UNITS / MR48DEY3JM



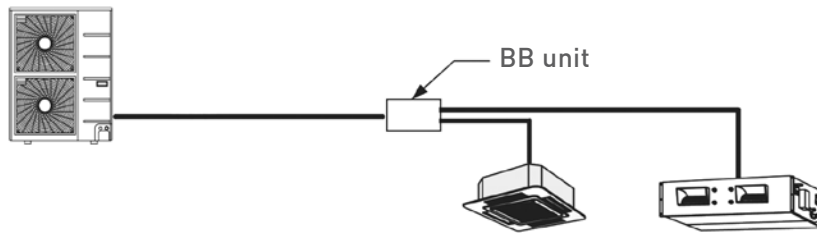
Item No.	Part Name	Description
1	Liquid pipe connection	
2	Gas pipe connection	
3	Air discharge grille	
4	Power & transmission connection	

REFRIGERATION LINE SETS MINIMUM/MAXIMUM LENGTHS MULTIZONE | 48,000 BTU

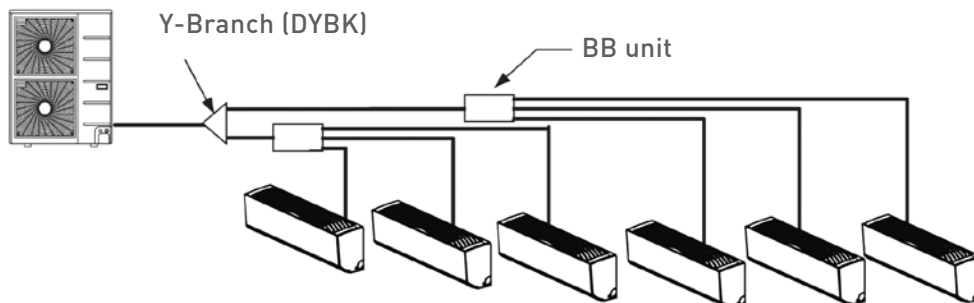
Multizone 48,000 BTU/h Eight Zone			
System Pipe Lengths	Total piping length (Outdoor to Indoor) (Tp)		(ft.) ≤ 476
	Outdoor to Branch box (A, B)	Min.	(ft.) 10
		Max.	(ft.) ≤ 180
	Total branch piping length (Branch Box to indoor units) (A1-A3, B1-B4)		(ft.) ≤ 295
Branch box to Indoor units	Min.	(ft.) 10	
	Max.	(ft.) ≤ 49	
Elevations	If outdoor unit is above or below indoor unit (E1)		(ft.) ≤ 98
	Between the farthest two indoor units (E3)		(ft.) ≤ 43
	Between branch distribution unit and farthest connected indoor unit(s) (E2)		(ft.) ≤ 33
	Between branch boxes (E4)		(ft.) ≤ 43



SINGLE AND DUAL BB CONFIGURATIONS



Branch Box D4PBB



Y - Branch DYBK