



Thermal Zone Multi-Zone Heat Pump Units

- DC Inverter Compressor
- 15+ SEER
- 410a Refrigerant



Introductory Special

Supplies Included
for a 20' Installation

- Connection Wire
- Flare Fittings
- Evaporator Drain Tube
- Condenser Drain Fitting
 - Wall Sleeve
 - PVC Tape

(Insulated Line Sets Not Included)



Thermal Zone Multi-Zone Heat Pump Evaporator Specifications

INDOOR UNIT

	Model	MZC49HP14240EA	MZC412HP14240EA
	Performance & Electrical	Rated Voltage & Frequency	208-230 VAC 60HZ
Rated Input Current		0.2 A	0.2 A
Cooling BTU		9,000	11,500
Heating BTU		10,800	14,000
Dehumidifying Volume (pt/hr)		2.09	3.53
Fan Motor	Input (W)	16	16
	Fan Motor FLA (A)	0.185	0.185
	Fan Motor Capacitor (MFD/V)	1.2/450V	1.2/450V
	Speed (Hi/Med/Low) (RPM)	1150 / 950 / 750	1200 / 950 / 850 (Cooling) 1200 / 950 / 750 (Heating)
	Speed (turbo) (RPM)	1250	1350
Evaporator	Number of rows	22	22
	Tube pitch row / pitch (in)	.69 / .50	.69 / .50
	Fin spacing (in)	0.0614	0.059
	Fin Type	Louvered Fin	Louvered Fin
	Tube outside dia.(in) / Type	0.2756 Rifled Tube	0.2756 Rifled Tube
	Coil Length x height x width (in)	25.39 x 11.06 x 1	30.98 x 11.06 x 1
Design Data	Air Flow (Turbo/Hi/Med/Low) (CFM)	353/324/283/194	441/412/377/218
	Noise Level (dB(A))	41	43
	Fan Type	Cross Flow	Cross Flow
	Fan Diameter (in)	3.661	3.818
	Fan Length (in)	24.921	30.393
	Design Pressure (PSI)	551.14	551.14
	High Pressure (PSI)	510	510
	Low Pressure (PSI)	250	250
Auto-restart	YES	YES	
Dimesions & Weight	Unit Dimensions (W x H x D) (in)	31.1 x 10.63 x 8.27	36.61 x 10.83 x 8.27
	Packing Dimensions (W x H x D) (in)	33.86 x 13.78 x 10.43	39.96 x 13.97 x 12.79

* When used with 9K + 12K Evaporater, SEER = 13.5

MODE	Range	INDOOR UNITS		OUTDOOR UNITS	
		MZC49HP14240EA		MZC418HP14240CA	
		MZC412HP14240EA		MZC424HP14240CA	
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F
Cooling	Upper Limit	90	73	110	N/A
	Lower Limit	70	59	50	N/A
Heating	Upper Limit	81	N/A	75	64
	Lower Limit	50	N/A	5	3



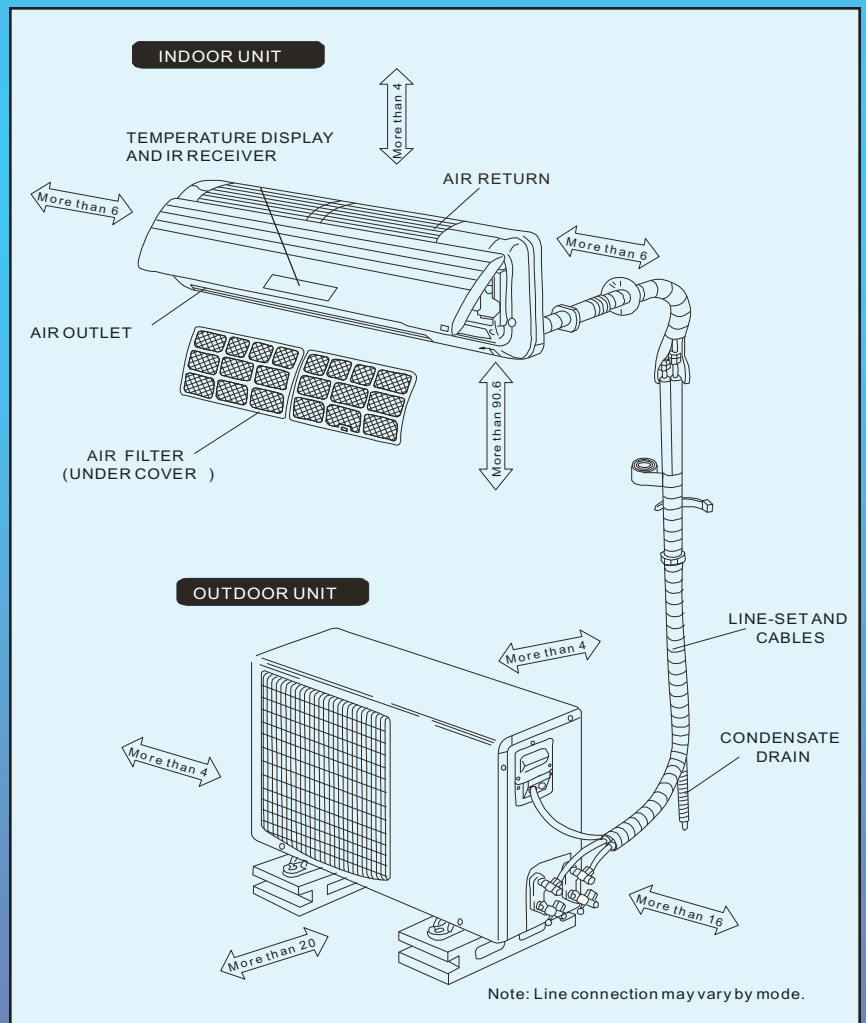
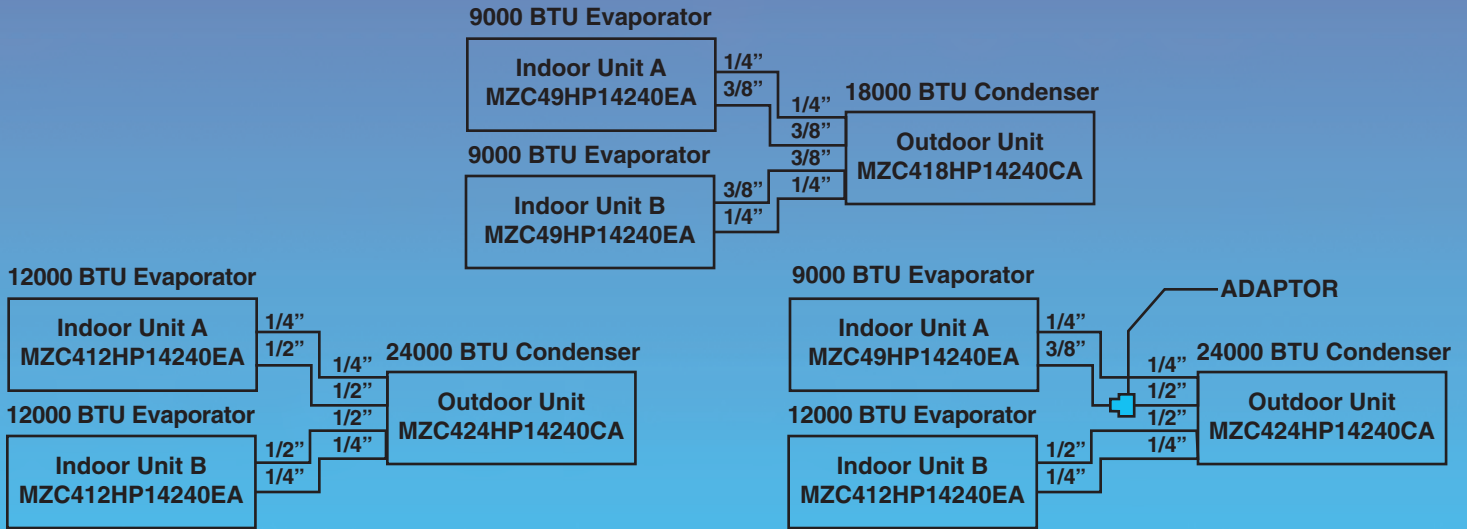
Thermal Zone Multi-Zone Condenser Specifications

OUTDOOR UNIT

Model Number		MZC418HP14240CA	MZC424HP14240CA
Rated Voltage & Frequency and Phase		208-230 VAC 60HZ 1PH	208-230 VAC 60HZ 1PH
Circuit Breaker Size (A)		20	25
Rated Current (RLA) heating/cooling		6.0/6.7 A	8/8.7 A
Refrigerant (R410A), (lbs)		3.88	6.61
Cooling	Rated Capacity (Btu)	18,000	23,000
	Capacity Invert Range (W)	5000 (1650-7100)	6400 (1750-8300)
	Input / Actual Input (W)	1380/1450	1830/1882
	Max. Power (W)	2456	3000
	Max Current (A)	11	13
	SEER	14.8	15.6*
Heating	Rated Capacity (Btu)	21,000	26,000
	Capacity Invert Range (W)	5800 (1790-7800)	7200 (2000-8400)
	Input / Actual Input (W)	1,550 / 1,580	2,000 / 2,060
	Max. Power (W)	2,579	3,200
	Max Current (A)	11.5	13.5
	Declared COP / Actual COP (w/w.h.)	3.75 / 3.65	3.5 / 3.4
Fan Motor	Model	YDK-60A-6C	YDK-60A-6C
	Input (W)	60	60
	Capacitor (UFD)	4 / 450 VAC	4 / 450 VAC
	Fan Motor FLA (A)	0.83	0.83
	Fan Speed (RPM)	900/750/500	900/750/500
	Fan Type	Axial	Axial
Outdoor Fan	Fan Blade Diameter (in)	18.1	18.5
	Air Flow Volume of Outdoor Unit (CFM)	2800	3200
Compressor	Model	C-6RZ146H1A	C-7VRN153HOW
	TYPE	DC	DC
	Brand	Sanyo	Sanyo
	Capacity (W)	6420	7110
	Input (W)	1635	1770
Condenser	Number of Rows	2-26	2-26
	Tube Pitch x Row Pitch	1 x .866 in	1 x .866 in
	Fin spacing	0.0708 in	0.0708 in
	Fin Type	Louvered Fin	Louvered Fin
	Tube Outside Dia. and Type	0.375" Rifled Tube	0.375" Rifled tube
	Coil Length x Height x Width	28.66 x 25.6 x .866	30.23 x 31.96 x .866
		28.66 x 25.6 x .988	31.57 x 31.96 x .866
Number of circuits	4	4	
Dimensions & Weight	Unit Dimensions (W x D x H) (in)	36.5 x 14.25 x 27.6	37.8 x 13.54 x 33.31
	Packing Dimensions (W x Dx H) (in)	39 x 16.14 x 30.32	41.73 x 18.5 x 36.41
	Net / Gross Weight (lb)	114.64 / 123.47	163.14 / 185.18
Connection	Flare Liquid line	1/4"	1/4"
	Flare Suction line	3/8"	1/2"
	Sevice Port Fitting	5/16"	5/16"
	High Pressure (psi)	510	510
	Low Pressure (psi)	250	250
	Design Length	16.4'	16.4'
	Max Line Set Height	32.8'	32.8'
	Max Line Set Length	98.4**	98.4**
	Charge over Design Length	0.20 oz / Ft.	0.20 oz / Ft.
	Connection Pipes	1/4" / 3/8"	1/4" x 1/2"
	Design Pressure (PSI)	510	510
	Wiring (Indoor to Outdoor)	4-14 AWG	4-14 AWG
	Wiring (Outdoor to Power)	3-14 AWG	3-14 AWG

* When using 9K + 12K evaporator SEER rating 13.5. ** Total for both evaporators. Maximum for an individual evaporator 82'

Types of Indoor to Outdoor Unit Configurations for Thermal Zone Multi-Zones



IRP - International Refrigeration Products

700 Corporate Circle, Toms River, NJ 08755

Phone: 732-736-5699 Fax: 732-736-7495 Technical Support: 704-504-8590