



CONFORTO



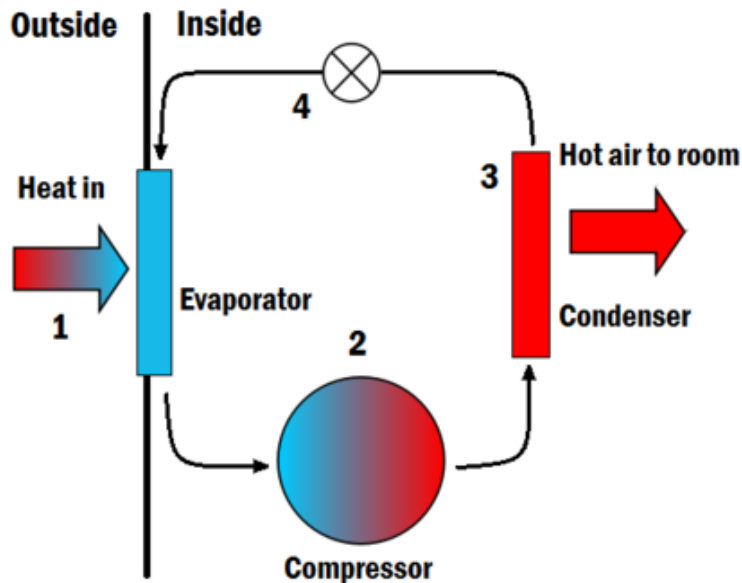
Maximum Heat Pump Series



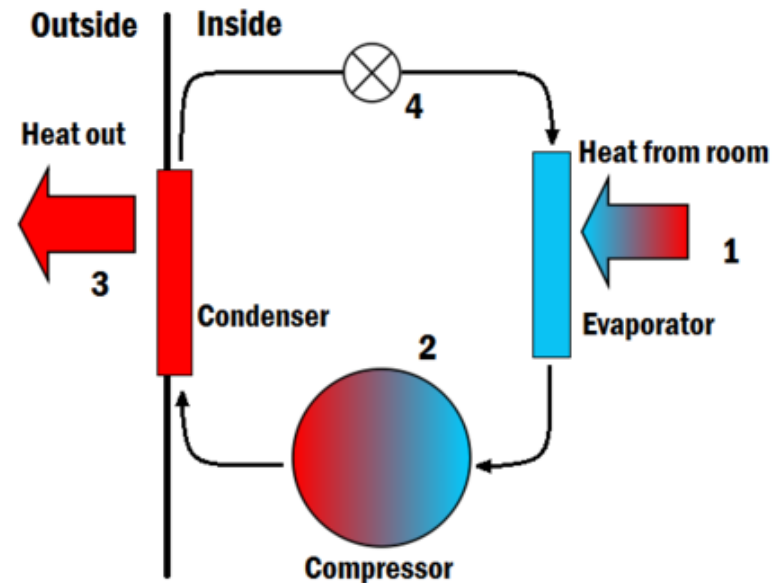
Ductless Mini Split Systems

What is a Heat Pump?

Definition: an apparatus for heating or cooling (such as a building) by transferring heat by mechanical means from or to an external reservoir.



Heating Cycle



Cooling Cycle

Heat pumps use electricity to transfer heat from a cool space to a warm space, making the cool space cooler and the warm space warmer. During the heating season, heat pumps absorb heat from the outdoor air into your house. During the cooling season, heat pumps reject heat from your house to the outdoors.

Conforto Ductless Line



MAXIMUM SERIES

Maximum Heat Pump Series ductless systems provide a highly flexible, efficient, full featured method of delivering year-round heating and cooling – plus energy efficiency to earn utility rebates!

Ductless systems consists of a wall or ceiling cassette indoor air handler(s), with a single-zone or multi-zone outdoor condenser.



Features & Benefits

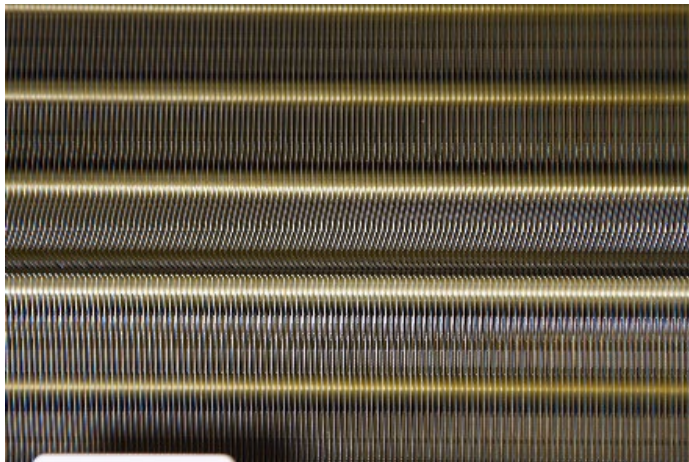
Both Maximum & Advantage Series

- Heat pump variable speed technology provides year-round cooling and heating solutions in extreme weather conditions.
- All-weather resilience is aided by a heated base pan that prevents ice buildup – while a stainless-steel crankcase heater keeps the compressor oil warm at all times.
- Multiple Modes
 - Turbo Mode – rapid and efficient heating of a particular room or space.
 - Sleep Mode – gradually decreases output automatically over night to maintain comfort.
 - 24 Hour Timer – user defined setpoints to start/stop at specific times.
- R-410A Refrigerant.
- Easy installation without any ductwork.
- Self-diagnosis and auto protection including refrigerant leak detection.
- Golden Fin prevents bacteria and improves heat transfer efficiency.
- Quiet operation.
- Power Supply: 208V/230V, 1Ph, 60 Hz

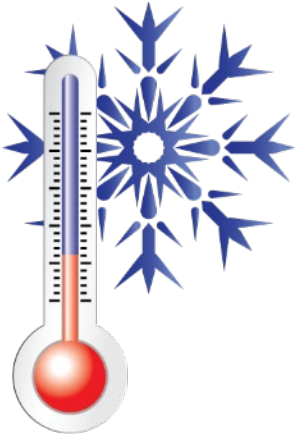
Zero Emissions

Heat pumps are ECO friendly and are a great solution to other carbon-based heating solutions.

“Golden Fin” anti-corrosive coating on the heat exchanger prevents bacteria from breeding in the system and withstands corrosive elements for longer lasting performance.



Low Ambient Operation



EMI Ductless Systems provide year-round air conditioning when outdoor temperatures are below freezing – the perfect solution for unique residential and light commercial installations where additional cooling is required.

- Data centers
- Server rooms
- Meeting rooms
- Conference rooms
- Gyms
- And more...

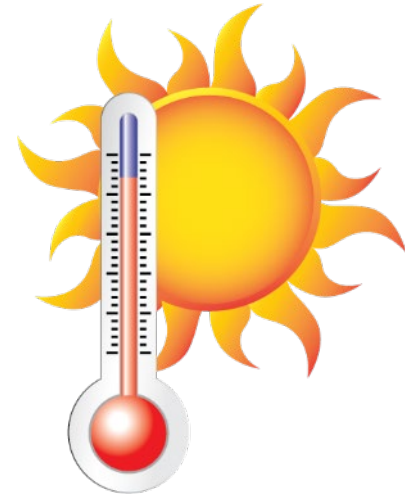


Heating Capacity

Maximum Heat Pump Series

In cold climate regions the maximum series provides near total rated heating capacity at 0°F.

The Advantage Heat Pump Series offer ~60% rated heating capacity at 5°F.



Easy Installation, Minimal Maintenance

- Easily installed by a qualified contractor. Maintenance is kept to a minimum.
- Simply clean the easy-access filter in the system's air-handling units and schedule an occasional diagnostics and maintenance of the outside condenser.
- Internal diagnostics and refrigerant leakage detection quickly identifies any issues and reduces service time.
- Auto Protection – should abnormal operation or part failure happen, the unit will shut off automatically and indicate protection error.



Maximum Heat Pump Series

Indoor
Air Handlers



Ceiling Cassette
9K, 12K, 18K, 24K



High Wall
6K, 9K, 12K, 18K, 24K

Outdoor
Condensers



Single-Zone
6K, 9K, 12K, 18K, 24K



Multi-Zone
18K, 27K, 36K, 48K
2 zone, 3 zone, 4 zone, 5 zone



Maximum Heat Pump Series

Features

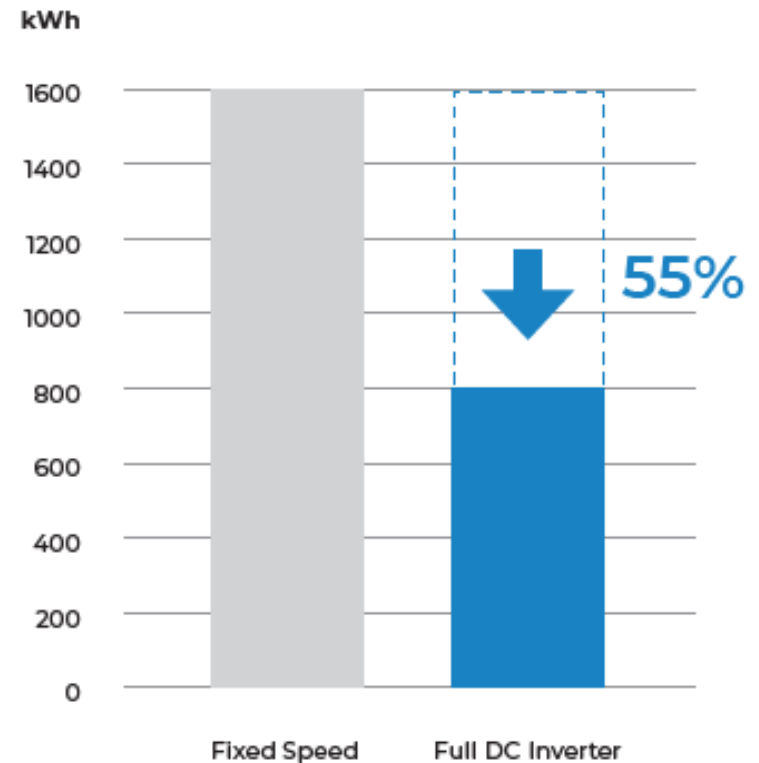
- Maximum energy efficiency ratings qualify for utility rebates. Energy Star® Certified.
 - SEER range 20 to 28.1
 - EER range 12.5 to 16.2
 - HSPF range 12 to 14
- Condenser Capacities
 - Single-Zone: 6K, 9K, 12K, 18K, 24K
 - Multi-zone Condensers: 18K, 27K, 36K, 48K
- Air Handler Capacities
 - High Wall: 6K, 9K, 12K, 18K, 24K
 - Ceiling Cassette: 9K, 12K, 18K, 24K
- Outdoor Temperature Operation Range
 - Cooling: -22°F to 122°F
 - Heating: -22°F to 86°F
- Installation Flexibility
 - Single-Zone or Multi-Zone (up to 5 zones)
 - Ceiling Cassette or High Wall Air Handlers



Maximum Energy Efficiency

Condensers features a high-efficiency twin-rotor, variable speed compressor which is more efficient than traditional fixed speed units and achieves ENERGY STAR® certification.

- Advanced, Full DC inverter technology – reduces energy use by 55% compared to fixed-speed air conditioners.
- One multi-zone outdoor unit can service multiple indoor units, providing a zoned solution which further reduces energy consumption.



Quiet Operations



- The system's advanced compressor design reduces vibration and, thus, strain on components.
- When ambient temperature is lower at night, the system automatically adjusts the compressor's audible output to as low as 43.9 dB (for comparison, a human conversation measures approximately 60dB!)
- Wall Air Handlers 23 – 48 dB(A)
- Ceiling Cassettes 32 – 48 dB(A)

Air-Handling Units

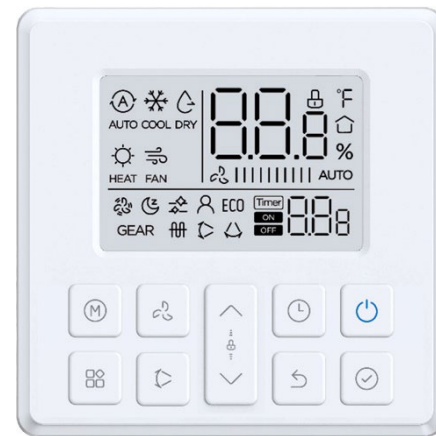
If your goal is clean aesthetics, space-savings, or both – a Conforto ductless solution offers you a range of air-handling units.

- **High Wall**
 - Perfect for a variety of rooms and can easily be mounted on a wall surface.
- **Ceiling Cassette**
 - An excellent option when four-way directional air flow is desired, this unit recesses into the ceiling and can be placed in the center of the room for 360° comfort.



Convenient Controls

- Adjust temperature settings and control fan speeds.
- Choice of modes – Choose between Sleep Mode for maximum comfort while sleeping, or Turbo Mode to quickly cool or heat a space, and timed settings for versatility.
- Choice of controls – Convenience is yours, whether you opt for the included wireless remote with “Follow Me” feature or use a traditional wired wall control.
- Optional Wi-Fi



Optional Wired
Thermostat

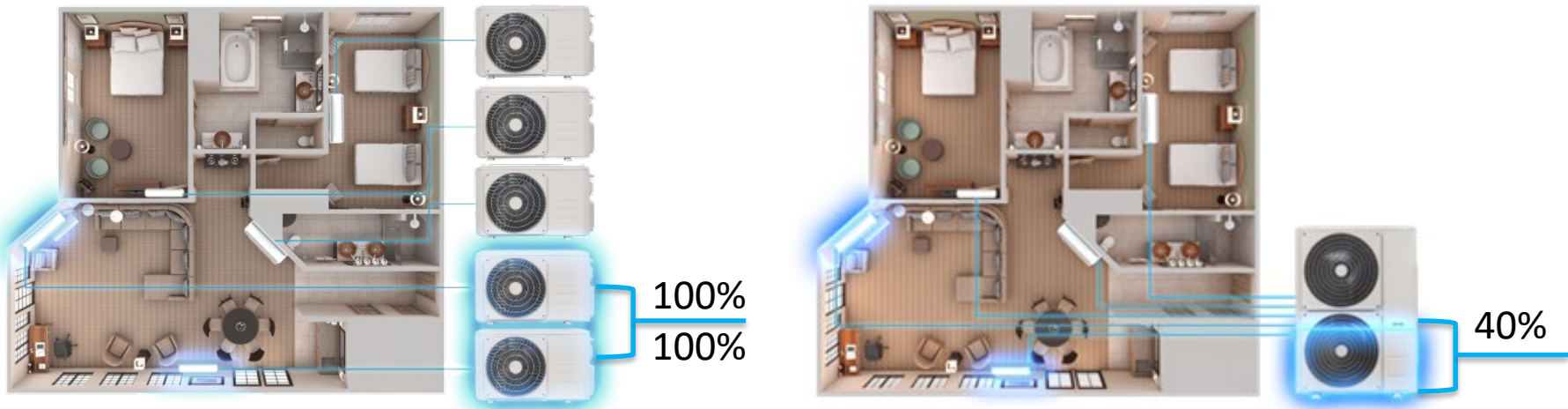


Included IR
Remote Control

Single-Zone VS. Multi-Zone

Increase energy efficiency with a multi-zone outdoor unit.

- The inverter compressor offers better efficiency under partial output. When not all the rooms require air conditioning, the multi-split outdoor unit will run with partial output and lower the power consumption, while in the single split solution, each of the outdoor units are still operating 100% output with lower efficiency.



MHMZ218DA
 MHWAL 6K/9K/12K
 MHCAS 9K/12K

MHMZ327DA
 MHWAL 6K/9K/12K/18K/24K
 MHCAS 9K/12K/18K

MHMZ436DA
 MHWAL 6K/9K/12K/18K/24K
 MHCAS 9K/12K/18K/24K

2 Zone
6K + 6K
6K + 9K
6K + 12K
9K + 9K
9K + 12K

2 Zone	3 Zone
6K + 12K	6K + 6K + 6K
6K + 18K	6K + 6K + 9K
9K + 9K	6K + 6K + 12K
9K + 12K	6K + 6K + 18K
9K + 18K	6K + 6K + 24K
9K + 24K	6K + 9K + 9K
12K + 12K	6K + 9K + 12K
12K + 18K	6K + 9K + 18K
12K + 24K	6K + 12K + 12K
18K + 18K	9K + 9K + 9K
	9K + 9K + 12K
	9K + 9K + 18K
	9K + 12K + 12K
	12K + 12K + 12K

2 Zone	3 Zone	4 Zone
6K + 18K	6K + 6K + 12K	6K + 6K + 6K + 6K
6K + 24K	6K + 6K + 18K	6K + 6K + 6K + 9K
9K + 18K	6K + 6K + 24K	6K + 6K + 6K + 12K
9K + 24K	6K + 9K + 12K	6K + 6K + 6K + 18K
12K + 12K	6K + 9K + 18K	6K + 6K + 6K + 24K
12K + 18K	6K + 9K + 24K	6K + 6K + 9K + 9K
12K + 24K	6K + 12K + 12K	6K + 6K + 9K + 12K
18K + 18K	6K + 12K + 18K	6K + 6K + 9K + 18K
18K + 24K	6K + 12K + 24K	6K + 6K + 9K + 24K
24K + 24K	6K + 18K + 18K	6K + 6K + 12K + 12K
	6K + 18K + 24K	6K + 6K + 12K + 18K
	9K + 9K + 9K	6K + 6K + 12K + 24K
	9K + 9K + 12K	6K + 9K + 9K + 9K
	9K + 9K + 18K	6K + 9K + 9K + 12K
	9K + 9K + 24K	6K + 9K + 9K + 18K
	9K + 12K + 12K	6K + 9K + 9K + 24K
	9K + 12K + 18K	6K + 9K + 12K + 12K
	9K + 12K + 24K	6K + 9K + 12K + 18K
	9K + 18K + 18K	6K + 12K + 12K + 12K
	12K + 12K + 12K	6K + 12K + 12K + 18K
	12K + 12K + 18K	9K + 9K + 9K + 9K
	12K + 12K + 24K	9K + 9K + 9K + 12K
	12K + 18K + 18K	9K + 9K + 9K + 18K
		9K + 9K + 12K + 12K
		9K + 9K + 12K + 18K
		9K + 12K + 12K + 12K
		12K + 12K + 12K + 12K

Multi-Zone Configurations

MHMZ548DA
MHWAL 6K/9K/12K/18K/24K
MHCAS 9K/12K/18K/24K

Configurations Cont.

2 Zone	3 Zone	4 Zone	5 Zone		4 Zone - cont.	5 Zone - cont.
9K + 24K	6K + 6K + 24K	6K + 6K + 6K + 18K	6K + 6K + 6K + 6K + 9K		9K + 9K + 9K + 9K	6K + 6K + 12K + 12K + 18K
12K + 24K	6K + 9K + 24K	6K + 6K + 6K + 24K	6K + 6K + 6K + 6K + 12K		9K + 9K + 9K + 12K	6K + 6K + 12K + 12K + 24K
18K + 18K	6K + 12K + 18K	6K + 6K + 9K + 18K	6K + 6K + 6K + 6K + 18K		9K + 9K + 9K + 18K	6K + 6K + 12K + 18K + 18K
18K + 24K	6K + 12K + 24K	6K + 6K + 9K + 24K	6K + 6K + 6K + 6K + 24K		9K + 9K + 9K + 24K	6K + 9K + 9K + 9K + 9K
	6K + 18K + 18K	6K + 6K + 12K + 12K	6K + 6K + 6K + 9K + 9K		9K + 9K + 12K + 12K	6K + 9K + 9K + 9K + 12K
	6K + 18K + 24K	6K + 6K + 12K + 18K	6K + 6K + 6K + 9K + 12K		9K + 9K + 12K + 18K	6K + 9K + 9K + 9K + 18K
	6K + 24K + 24K	6K + 6K + 12K + 24K	6K + 6K + 6K + 9K + 18K		9K + 9K + 12K + 24K	6K + 9K + 9K + 9K + 24K
	9K + 9K + 18K	6K + 6K + 18K + 18K	6K + 6K + 6K + 9K + 24K		9K + 9K + 18K + 18K	6K + 9K + 9K + 12K + 12K
	9K + 9K + 24K	6K + 6K + 18K + 24K	6K + 6K + 6K + 12K + 12K		9K + 9K + 18K + 24K	6K + 9K + 9K + 12K + 18K
	9K + 12K + 12K	6K + 6K + 24K + 24K	6K + 6K + 6K + 12K + 18K		9K + 12K + 12K + 12K	6K + 9K + 9K + 12K + 24K
	9K + 12K + 18K	6K + 9K + 9K + 12K	6K + 6K + 6K + 12K + 24K		9K + 12K + 12K + 18K	6K + 9K + 9K + 18K + 18K
	9K + 12K + 24K	6K + 9K + 9K + 18K	6K + 6K + 6K + 18K + 18K		9K + 12K + 12K + 24K	6K + 9K + 12K + 12K + 12K
	9K + 18K + 18K	6K + 9K + 9K + 24K	6K + 6K + 6K + 18K + 24K		9K + 12K + 18K + 18K	6K + 9K + 12K + 12K + 18K
	9K + 18K + 24K	6K + 9K + 12K + 12K	6K + 6K + 9K + 9K + 9K		9K + 12K + 18K + 24K	6K + 9K + 12K + 12K + 24K
	9K + 24K + 24K	6K + 9K + 12K + 18K	6K + 6K + 9K + 9K + 12K		12K + 12K + 12K + 12K	6K + 12K + 12K + 12K + 12K
	12K + 12K + 12K	6K + 9K + 12K + 24K	6K + 6K + 9K + 9K + 18K		12K + 12K + 12K + 18K	6K + 12K + 12K + 12K + 18K
	12K + 12K + 18K	6K + 9K + 18K + 18K	6K + 6K + 9K + 9K + 24K		12K + 12K + 12K + 24K	9K + 9K + 9K + 9K + 9K
	12K + 12K + 24K	6K + 9K + 18K + 24K	6K + 6K + 9K + 12K + 12K		12K + 12K + 18K + 18K	9K + 9K + 9K + 9K + 12K
	12K + 18K + 18K	6K + 12K + 12K + 12K	6K + 6K + 9K + 12K + 18K			9K + 9K + 9K + 9K + 18K
	12K + 18K + 24K	6K + 12K + 12K + 18K	6K + 6K + 9K + 12K + 24K			9K + 9K + 9K + 9K + 24K
	12K + 24K + 24K	6K + 12K + 12K + 24K	6K + 6K + 9K + 18K + 18K			9K + 9K + 9K + 12K + 12K
	18K + 18K + 18K	6K + 12K + 18K + 18K	6K + 6K + 9K + 18K + 24K			9K + 9K + 9K + 12K + 18K
	18K + 18K + 24K	6K + 12K + 18K + 24K	6K + 6K + 12K + 12K + 12K			9K + 9K + 9K + 12K + 24K
						9K + 9K + 12K + 12K + 12K
						9K + 9K + 12K + 12K + 18K
						9K + 12K + 12K + 12K + 12K

Single-Zone Ductless Systems

Specifications & Performance

Single-Zone System with Wall Air Handler

Outdoor Unit	MHSZ106DA	MHSZ109DA	MHSZ112DA	MHSZ118DA	MHSZ124DA
Indoor Unit	MHWAL06DA	MHWAL09DA	MHWAL12DA	MHWAL18DA	MHWAL24DA
Capacity (Btu/h)	6000	9000	12000	18000	24000
EER (Btu/w)	15.8	16.2	14	12.5	13
SEER (Btu/w)	26.5	28.1	25.5	21.5	21.5
COP (W/W)	3.92	3.81	3.88	3.1	3.4
HSPF (Btu/w)	14	13	13	13	12
Liquid side flare connection	1/4" (6.35mm)	1/4" (6.35mm)	1/4" (6.35mm)	1/4" (6.35mm)	3/8" (9.52mm)
Gas side flare connection	3/8" (9.52mm)	3/8" (9.52mm)	1/2" (12.7mm)	1/2" (12.7mm)	5/8" (15.9mm)
Max. pipe length	82 ft (25m)	82 ft (25m)	82 ft (25m)	98 ft (30m)	164 ft (50m)
Max. dif. in height	32.8 ft (10m)	32.8 ft (10m)	32.8 ft (10m)	66 ft (20m)	82 ft (25m)



Refrigerant Piping



Single-Zone Ductless Systems

Specifications & Performance

Single-Zone System with Ceiling Cassette Air Handler

Outdoor Unit	MHSZ109DA	MHSZ112DA	MHSZ118DA	MHSZ124DA
Indoor Unit	MHCAS09DA	MHCAS12DA	MHCAS18DA	MHCAS24DA
Capacity (Btu/h)	9000	12000	17000	24000
EER (Btu/w)	13	12.7	12.5	11
SEER (Btu/w)	20.5	21.5	20	20.2
COP (W/W)	2.93	3.22	2.88	3.5
HSPF (Btu/w)	10.8	10.6	10.3	11.6
Facia Panel	Must be ordered with ceiling cassette unit. Packaged and sold seperately.			
Facia Part #	240013566	240013566	240013566	240013567
Liquid side flare connection	1/4" (6.35mm)	1/4" (6.35mm)	1/4" (6.35mm)	3/8" (9.52mm)
Gas side flare connection	3/8" (9.52mm)	1/2" (12/7mm)	1/2" (12/7mm)	5/8" (15.9mm)
Max. pipe length	82 ft (25m)	82 ft (25m)	98 ft (30m)	164 ft (50m)
Max. dif. in height	32.8 ft (10m)	32.8 ft (10m)	66 ft (20m)	82 ft (25m)



Refrigerant Piping



Multi-Zone Ductless Outdoor Units

Specifications & Performance



Multi-Zone Condenser				
Outdoor Unit	MHMZ218DA	MHMZ327DA	MHMZ436DA	MHMZ548DA
Number of Zones	2	3	4	5
Capacity	19000	28000	36000	48000
EER	12.5	12.5	13.6	11.6
SEER	22	22.5	21.8	21.5
COP	3.4	3.66	3.85	3.59
HSPF	10.2	11.3	11	11

Outdoor Unit	MHMZ218DA	MHMZ327DA	MHMZ436DA	MHMZ548DA
Liquid side flare connection	[2] 1/4" (6.35mm)	[3] 1/4" (6.35mm)	[4] 1/4" (6.35mm)	[5] 1/4" (6.35mm)
Gas side flare connection	[2] 3/8" (9.52mm)	[3] 3/8" (9.52mm)	[3] 3/8" (9.52mm) [1] 1/2" (12.7mm)	[3] 3/8" (9.52mm) [2] 1/2" (12.7mm)
Max. length for all rooms	131 ft (40m)	197 ft (60m)	262 ft (80m)	262 ft (80m)
Max. length for one ID unit	82 ft (25m)	98 ft (30m)	115 ft (35m)	115 ft (35m)
Max. height dif. between OD higher	49 ft (15m)	49 ft (15m)	49 ft (15m)	49 ft (15m)

Maximum Heat Pump Series

Decoding

Maximum Heating Series Variable Speed Heat Pump Ductless Split Systems Air Handler Decoding

Maximum Heating Wall Air Handler (Heat Pump)

Model	Wall Air Handler	Nominal Rated Capacity	Voltage	Product Revision	Brand					
M	H	W	A	L	06	D	A	C	F	C
		06 - 6,000 Btu/h								
		09 - 9,000 Btu/h				D-208-230 V/1 ph/ 60 Hz				
		12 - 12,000 Btu/h								
		18 - 18,000 Btu/h								
		24 - 24,000 Btu/h								

Example shown above - Customer to make selection based on highlighted cells

Maximum Heat Pump Series

Decoding

Maximum Heating Ceiling Air Handler (Heat Pump)

Model	Ceiling Air Handler	Nominal Rated Capacity	Voltage	Product Revision	Brand					
M	H	C	A	S	09	D	A	C	F	C
		<u>09 - 9,000 Btu/h</u>	<u>D-208-230 V/1 ph/ 60 Hz</u>							
		<u>12 - 12,000 Btu/h</u>								
		<u>18 - 18,000 Btu/h</u>								
		<u>24 - 24,000 Btu/h</u>								

Example shown above - Customer to make selection based on highlighted cells

Maximum Heat Pump Series

Decoding

Maximum Heating Series Variable Speed Heat Pump Ductless Split Systems Condenser Decoding

Maximum Heating Series Single Zone Condenser (Heat Pump)

Model		Single Zone			Nominal Rated Capacity		Voltage	Product Revision	Brand		
1	2	3	4	5	6	7	8	9			
M	H	S	Z	1	0	9	D	A	C	F	C
Heat Pump					09 - 9,000 Btu/h		D-208-230 V/1 ph/ 60 Hz				
					12 - 12,000 Btu/h						
					18 - 18,000 Btu/h						
					24 - 24,000 Btu/h						

Example shown above - Customer to make selection based on highlighted cells.

Maximum Heat Pump Series

Decoding

Maximum Heating Series Multi Zone Condenser (Heat Pump)

Model		Single Zone			Nominal Rated Capacity		Voltage	Product Revision	Brand		
1	2	3	4	5	6	7	8	9			
M	H	M	Z	2	1	8	D	A	C	F	C
Heat Pump					2	18 - 18,000 Btu/h	D-208-230 V/1 ph/ 60 Hz				
					3	27 - 27,000 Btu/h					
					4	36 - 36,000 Btu/h					
					5	48 - 48,000 Btu/h					



Line Sets

Part #	Description
F0323161A	Insulated Tube Set, 3/8 in X 1/4 in X 16 ft (5 meters) Flared Connections MHWAL, MHCAS; 06 & 09 size only
F0323261A	Insulated Tube Set, 3/8 in X 1/4 in X 26 ft (8 meters) Flared Connections MHWAL, MHCAS 06; 06 & 09 size only
F0323491	Insulated Tube Set, 3/8 in X 1/4 in X 49 ft (15 meters) Flared Connections MHWAL, MHCAS; 06 & 09 size only
F0423161A	Insulated Tube Set, 1/2 in X 1/4 in X 16 ft (5 meters) Flared Connections MHWAL, MHCAS; 12 & 18 sizes
F0423261A	Insulated Tube Set, 1/2 in X 1/4 in X 26 ft (8 meters) Flared Connections MHWAL, MHCAS; 12 & 18 sizes
F0423491	Insulated Tube Set, 1/2 in X 1/4 in X 49 ft (15 meters) Flared Connections MHWAL, MHCAS; 12 & 18 sizes
F0533262A	Insulated Tube Set, 5/8 in X 3/8 in X 26 ft (8 meters) Flared Connections MHWAL, MHCAS; 24-36
F0533492A	Insulated Tube Set, 5/8 in X 3/8 in X 49 ft (15 meters) Flared Connections MHWAL, MHCAS; 24-36