

Specifications, Performance & Submittal

**Model:
Multi Zone
Condenser
18k-36k**

Multi Zone Condenser (Heat Pump)

Model		Multi Zone		# Of Zones	Nominal Rated Capacity	Voltage	Product Revision
D	H	M	Z			D	A
Deluxe Heat Series Heat Pump				2	18 - 18,000 Btu/h	D - 208-230V/1ph/60Hz	
				3	27 - 27,000 Btu/h		
				4	36 - 36,000 Btu/h		

Indicate the *quantity* of field installed accessories, required for each unit

QTY Ordered	Description	Part Number	Notes
	TUBE SET,3/8X1/4X16',5M,09,FLR,INS,US	F0323161A	09 size only
	TUBE SET,3/8X1/4X26',8M,09,FLR,INS,US	F0323261A	09 size only
	TUBE SET,3/8X1/4X49',15M,09,FLR,INS,US	F0323491	09 size only
	TUBE SET,1/2X1/4X16',5M,12-18,FLR,INS,US	F0423161A	12 & 18 sizes
	TUBE SET,1/2X1/4X26',8M,12-18,FLR,INS,US	F0423261A	12 & 18 sizes
	TUBE SET,1/2X1/4X49',15M,12/18,FLR,INS,	F0423491	12 & 18 sizes
	TUBE SET,5/8X3/8X26',8M,24-36,FL,INS,US	F0533262A	24 size
	TUBE SET,5/8x3/8X49',15M,24-36,FL,INS,US	F0533492A	24 size

Number of Units
Ordered



Approved:	
Reviewed:	
Contact:	
Address:	
Phone:	
Unit Tag #	
REVISION	

Approval

By: _____

NOTICE: Due to ongoing product development; design, specification and performance data listed within this submittal document are subject to change without notice. Visit our website emiretroaire.com for the most current performance data or consult the factory.

Air Handler Combinations, per Condenser Model			
Model #	2-Zone	3-Zone	4-Zone
DHMZ218DA	9k + 9k	N/A	N/A
	9k + 12k		
	12k + 12k		
DHMZ327DA	9k + 9k	9k + 9k + 9k	N/A
	9k + 12k	9k + 9k + 12k	
	9k + 18k	9k + 12k + 12k	
	12k + 12k	9k + 9k + 18k	
	12k + 18k	12k + 12k + 12k	
	18k + 18k		
DHMZ436DA	9k + 9k	9k + 9k + 9k	9k + 9k + 9k + 9k
	9k + 12k	9k + 9k + 12k	9k + 9k + 9k + 12k
	9k + 18k	9k + 9k + 18k	9k + 9k + 9k + 18k
	9k + 24k	9k + 12k + 12k	9k + 9k + 12k + 12k
	12k + 12k	9k + 12k + 18k	9k + 9k + 12k + 18k
	12k + 18k	9k + 18k + 18k	9k + 12k + 12k + 12k
	12k + 24k	12k + 12k + 12k	12k + 12k + 12k + 12k
	18k + 18k	12k + 12k + 18k	
		12k + 12k + 24k	
		12k + 18k + 18k	

NOTE: If total indoor units load exceeds nominal capacity of outdoor unit, the practical output capacity of every indoor unit will be correspondingly reduced. This situation is very evident during heat mode.

Ductless Mini Split:

- ◆ Heat Pump
- ◆ R-410A refrigerant.
- ◆ Single and multi-zone application flexibility.
- ◆ 20 to 25 SEER high efficiency models with capacities from 9,000 Btu/h to 24,000 Btu/h.
- ◆ Easy installation requiring no ductwork, a small hole for running power wiring and refrigerant lines is all that is needed to connect indoor and outdoor sections.
- ◆ Low profile indoor air handler is neutral color that blends with any decor.
- ◆ Next generation outdoor condenser with inverter compressor provides exceptionally quiet operation and intelligently adjusts speed to temperature conditions.
- ◆ Low noise.
- ◆ Low operating cost.
- ◆ Optional Wall Thermostat.
- ◆ Simple design makes it easy to remove and clean the washable filters.
- ◆ Intelligent Design allows system to intelligently adjust the angle of the louver to ensure greatest efficiency for heating and cooling. For more control, manually adjust louver as small as 6 degrees from using the hand-held remote.
- ◆ Golden Fin prevents bacteria breeding and improves heat transfer efficiency. The unique anti-corrosive golden coating on the condenser can withstand salty air, rain, and other corrosive elements.
- ◆ Refrigerant Leakage Detection will better protect compressor being damaged by high temperature due to refrigerant leakage.

Features:

- All models supplied with hand-held Infrared Remote Controller with easy-to-read LCD display. Factory installer operating features provide capacity to set temperature, louver control, fan speeds and more.
- Follow-Me Technology - Mode that activates a temperature sensor that is built into Infrared remote control. When you stay close to the remote control, the unit will continue to condition the space until you are comfortable.
- Turbo Mode - Air condition maximizes output of cooling and heating capacity, making the room cool down or heat up rapidly and attain the desired temperature in the shortest time.
- Auto Restart - If system shuts down due to power failure, system will restart with previous function setting when power is restored.
- Auto Level Swing Louvers - In cooling mode, louvers self adjust to horizontal position and circulate cold air more efficiently. In heating mode, louvers deflect hot air downward so hot air will rise and circulate keeping the room warm.
- 24 Hour Timer - Set a wide variety of timer based operations, start and stop at specific times. Control fan speed as well as cool, heat and auto from anywhere in the room.
- Sleep Mode - Enables the system to gradually decrease cooling or heating output automatically during night operation to maintain comfort level while saving energy.
- Self-Diagnosis & Auto Protection - Should abnormal operation or part failure happen, unit will shut off automatically. Unit will then indicate protection or error code for fast service.
- Low Ambient Cooling/Heating - Operating range -22°F to 122°F provide year round cooling/heating comfort.
- Enhanced features - Compatible with after market Wi-Fi controllers.

Multi - Zone Systems

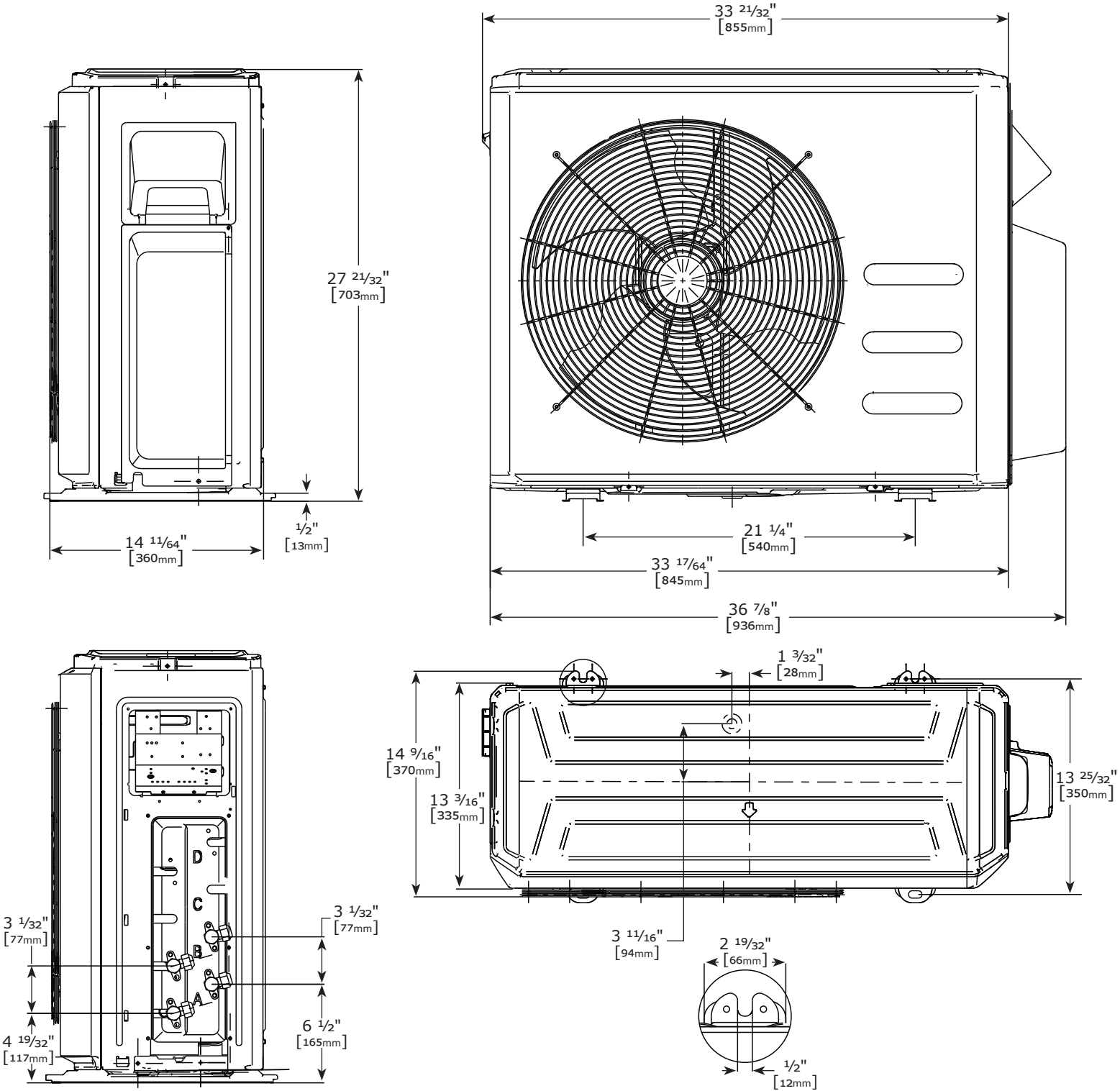
208V-230V 18-36k

Outdoor Condensing Unit Model			DHMZ218DA	DHMZ327DA	DHMZ436DA
Power supply		V-Hz-ph	208-230V~60Hz,1ph	208-230V~60Hz,1ph	208-230V~60Hz,1ph
Operating Range Ambient Temperature	Cooling	°C	-30~50	-30~50	-30~50
	Cooling	°F	-22~122	-22~122	-22~122
	Heating	°C	-30~30	-30~30	-30~30
	Heating	°F	-22~86	-22~86	-22~86
Cooling	Capacity	Btu/h	19000	28000	36000
	EER		12.5	13	13.5
	SEER		21.5	22	21.5
Heating at 47°F	Capacity	Btu/h	20000	28000	36000
	COP		3.4	3.5	3.8
	HSPF4		9.8	10.4	10.5
	HSPF5		8.5	9	8.5
Heating at 17°F	Rated capacity	Btu/h	15200	22400	30100
Heating at -5°F	Maximum capacity	Btu/h	14200	20600	27500
MINIMUM CIRCUIT AMPACITY		A	25.0	30.0	35.0
MAX TIME DELAY FUUSE OR HARC BREAKER		A	35.0	45.0	50.0
Outdoor air flow		m3/h	3619	3619	7646
Outdoor air flow		cfm	2130	2130	4500
Outdoor noise level		dB(A)	63.4	62.3	64
Outdoor unit	Dimension (W*D*H*)	mm	946x410x810	946x410x810	952x415x1333
	Dimension (W*D*H*)	inch	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48
	Packing (W*D*H*)	mm	1090x500x875	1090x500x875	1095x495x1480
	Packing (W*D*H*)	inch	42.91x19.69x34.45	42.91x19.69x34.45	43.11x19.49x58.27
	Net/Gross weight	kg	68/73	71/76	101.5/115.7
	Net/Gross weight	lbs.	149.91/160.94	156.53/167.55	223.77/255.07
Refrigerant type - 410A / oz		oz	98.8	105.8	162.3
Refrigerant precharge (Total pipe length)		ft	49	74	98
Additional charge for each ft		oz	0.161 for 1/4" liquid pipe 0.322 for 3/8" liquid pipe	0.161 for 1/4" liquid pipe 0.322 for 3/8" liquid pipe	0.161 for 1/4" liquid pipe 0.322 for 3/8" liquid pipe
Design pressure		psig	550/340	550/340	550/340
Refrigerant piping	Liquid side/Gas side	inch	(2) 1/4" liquid lines (2) 3/8" gas lines	(3) 1/4" liquid lines (3) 3/8" gas lines	(4) 1/4" liquid lines (3) 3/8" gas lines (1) 1/2" gas line
		mm	(2) Ø6.35 mm liquid lines (2) Ø9.52 mm gas lines	(3) Ø6.35 mm liquid lines (3) Ø9.52 mm gas lines	(4) Ø6.35 mm liquid lines (3) Ø9.52 mm gas lines (1) Ø12.7 mm gas line
	Max. length for all rooms	m	40	60	80
	Max. length for all rooms	ft	131	197	262
	Max. length for one indoor unit	m	25	30	35
	Max. length for one indoor unit	ft	82	98	115
	Max. height difference between indoor and outdoor unit	m	15	15	15
		ft	49	49	49
	Max. height difference between indoor units	m	10	10	10
	Max. height difference between indoor units	ft	33	33	33

Interconnect wire: 3 - conductor plus ground, stranded, un-shielded. Wire size is determined by MCA and MOP/fuse, per NEC, CEC and local codes.

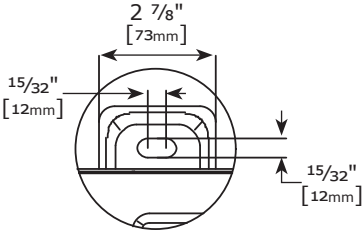
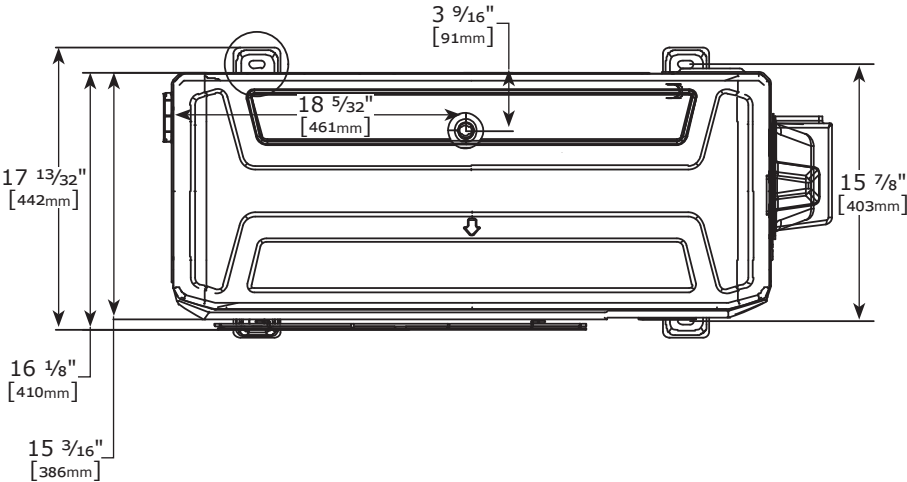
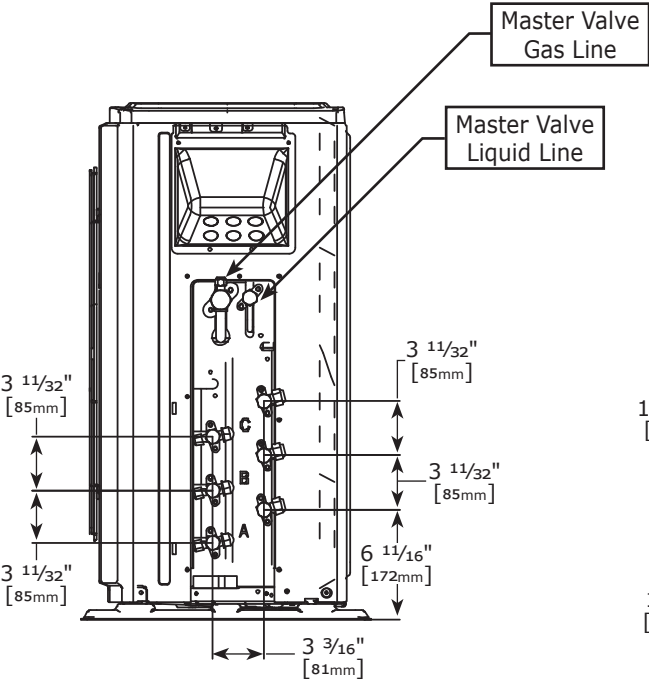
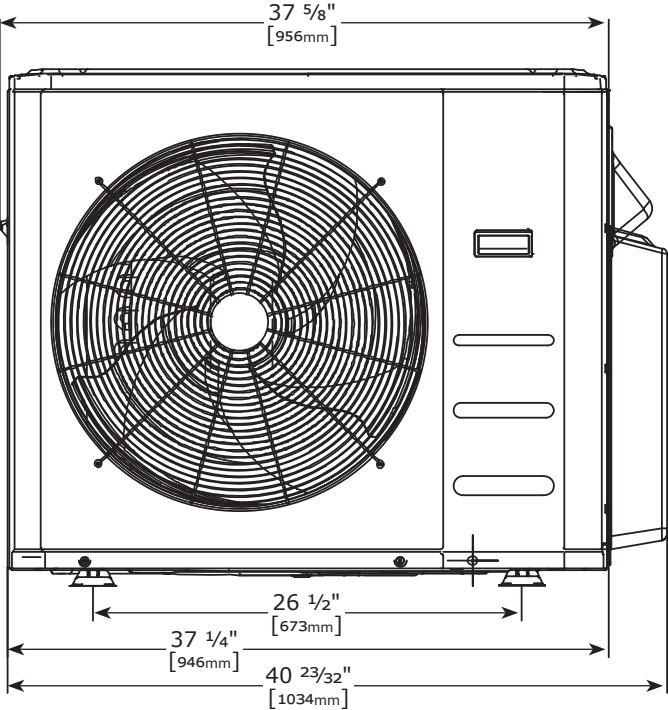
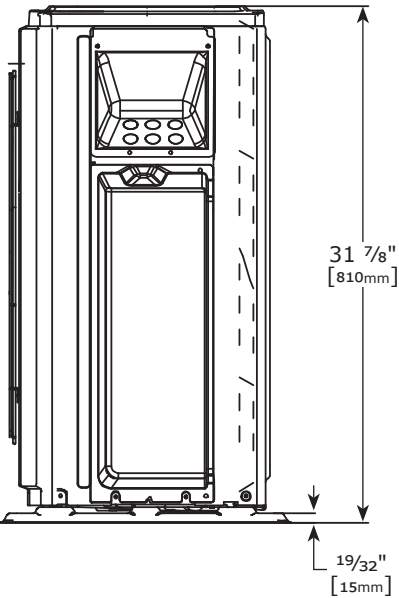
Dimensions

DHMZ218DA



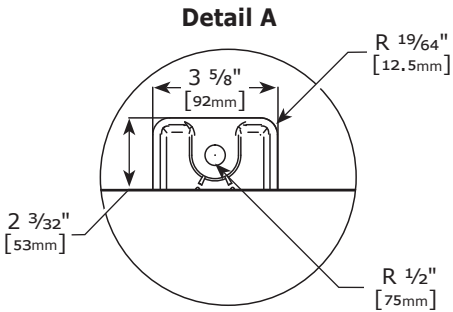
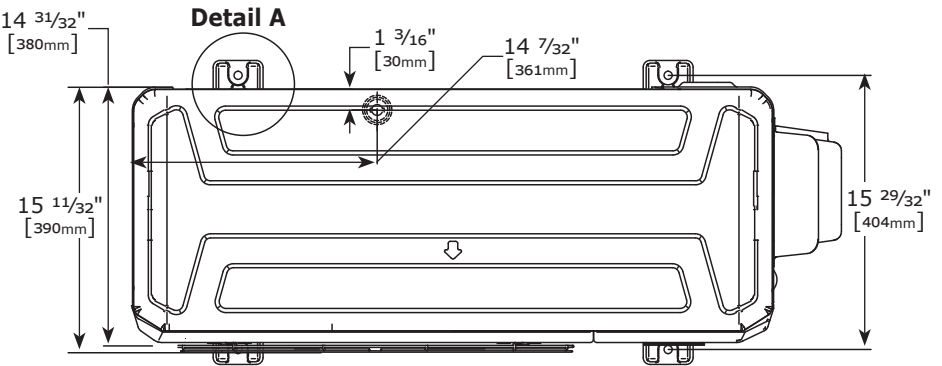
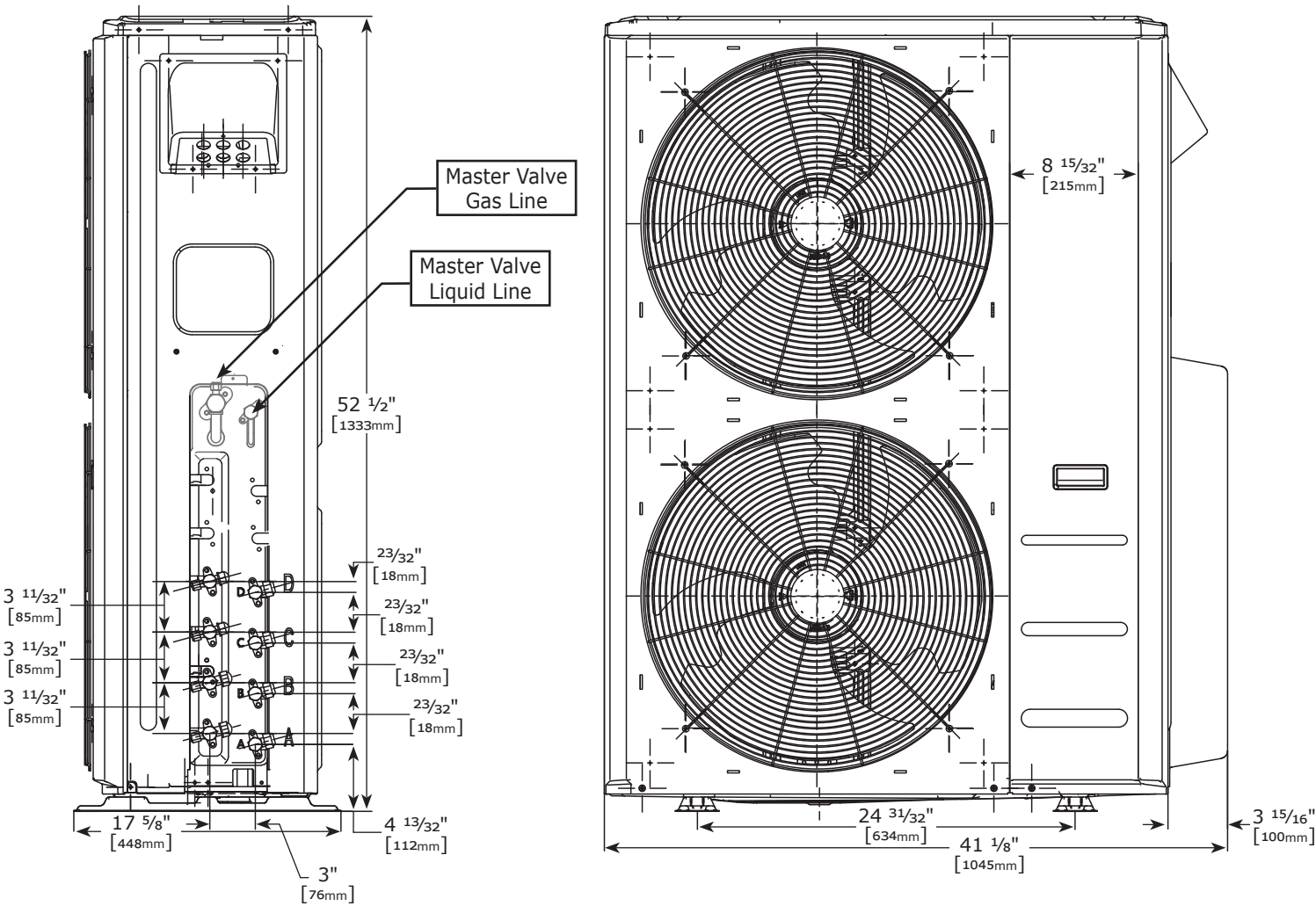
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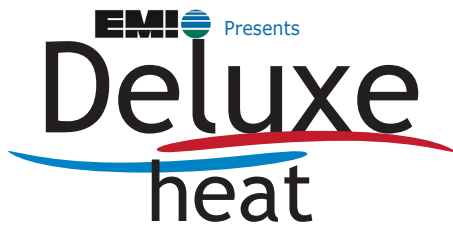
DHMZ327DA



Dimensions

DHMZ436DA





Specifications, Performance & Submittal

Model:
Wall Air Handler
208-230V
9k-24k

Wall Air Handler

Model		Single Zone			Capacity	Voltage	Product Revision
D	H	W	A	L		D	A
Deluxe Heat Series Heat Pump					09 - 9,000 Btu/h 12 - 12,000 Btu/h 18 - 18,000 Btu/h 24 - 24,000 Btu/h	D - 208-230V/1ph/60Hz	

Indicate the *quantity* of field installed accessories, required for each unit

QTY Ordered	Description	Part Number
	Optional: Wall Thermostat for Iverter & Deluxe Heat, Fahrenheit	KJR12BDPTF1
	Optional: Wall Thermostat for Iverter & Deluxe Heat, Celsius	KJR12B
	Optional: SPARE Hand Held Infrared Remote Control [NOTE: Each Wall Air Handler comes with a hand held remote, standard]	17317000A14903



Approved:	
Reviewed:	
Contact:	
Address:	
Phone:	
Unit Tag #	
REVISION	

Number of Units Ordered

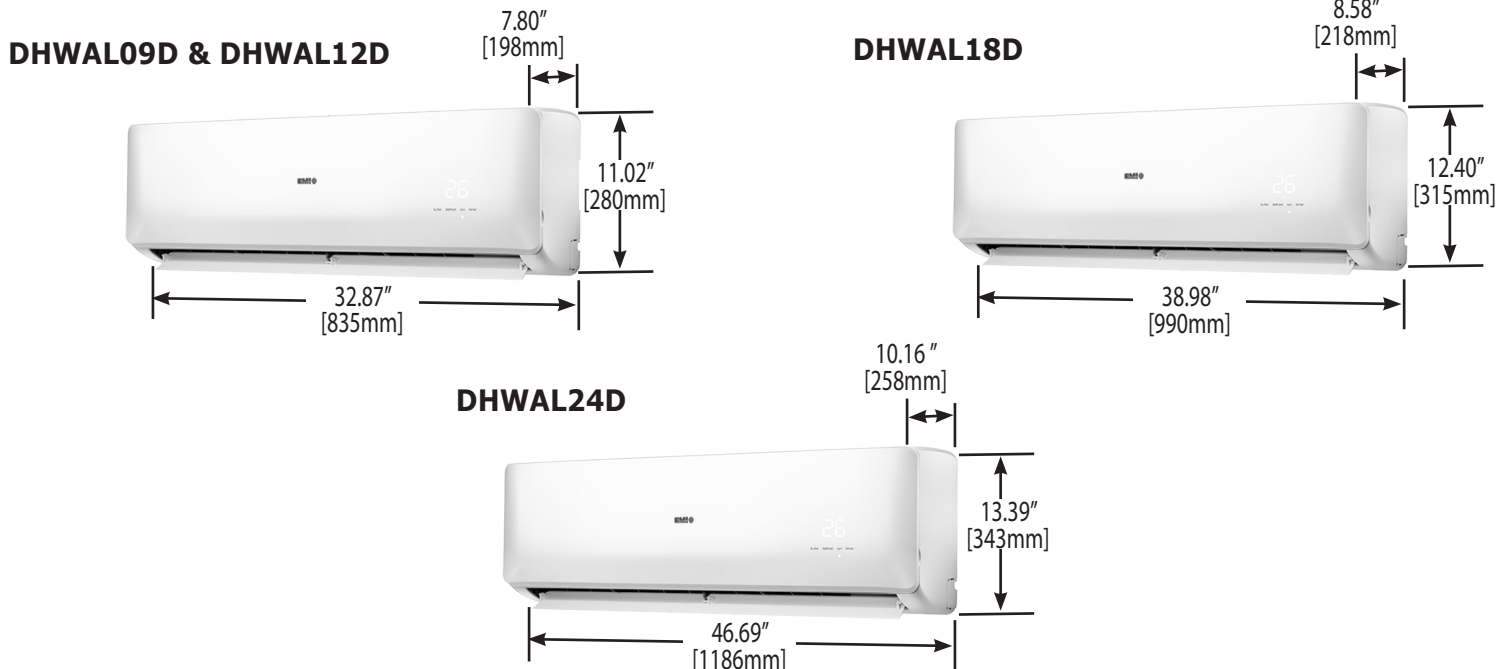
Approval
By: _____

Multi - Zone Systems

208V-230V 09-24k

Multi-Zone System Condensers can use
Wall Air Handlers or Ceiling Cassettes

Indoor Wall Air Handler Model			DHWAL09D	DHWAL12D	DHWAL18D	DHWAL24D
Power Supply			V-Hz-ph	208-230V,60Hz,1ph	208-230V,60Hz,1ph	208-230V,60Hz,1ph
	Input	W	50	50	58	72
	Output	W	20	20	58	60
	RLA	A	0.036	0.036	0.4	0.23
Indoor air flow (Hi/Mi/Lo)			m3/h	628/445/333	631/466/366	901/697/501
Indoor air flow (Hi/Mi/Lo)			cfm	370/268/196	371/274/198	530/410/295
Indoor noise level (Hi/Mi/Lo)			dB(A)	41.7/33.4/26.5	45.1/35.8/28.6	46.2/36.3/30.9
Indoor unit	Dimensions (W*D*H)	mm	835x198x280	835x198x280	990x218x315	1186x258x343
	Dimensions (W*D*H)	inch	32.87x7.80x11.02	32.87x7.80x11.02	38.98x8.58x12.40	46.69x10.16x13.39
	Packing (W*D*H)	mm	910x270x355	910x270x355	1065x300x400	1265x420x340
	Packing (W*D*H)	inch	35.83x10.63x13.98	35.83x10.63x13.98	41.93x11.81x15.75	49.80x16.53x13.39
	Net/Gross weight	kg	9.0/11.5	9.0/12.1	12.2/15.8	18.1/24.3
	Net/Gross weight	lbs.	19.8/25.4	19.8/26.7	26.9/34.8	39.9/53.6
Thermostat type				Remote Control	Remote Control	Remote Control
Thermostat Setting Range	Indoor(cooling/heating)	°C	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30
	Indoor(cooling/heating)	°F	62~90/32~86	62~90/32~86	62~90/32~86	62~90/32~86



Additional Refrigerant Calculation : Sum Total Liquid Pipe ft. (m) - Additional Charge Required After ft. (m.) x Additional Charge oz./ft. (g/m)
0.16 (15)

NOTES:

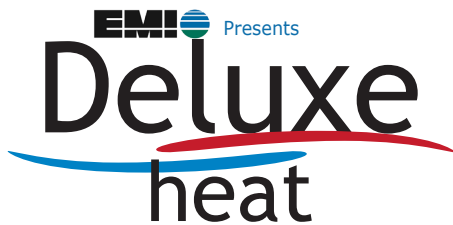
If the calculation results in a negative number no refrigerant is required to be added or removed.

Electronic expansion valves in the outdoor unit are used as metering devices

NOTE: The refrigerant charge included is adequate for the outdoor unit's maximum number of zones multiplied by the standard piping length per zone. For piping runs greater than the "Maximum Piping Length with no additional refrigerant charge per System", see Additional Refrigerant Charge (see Table 3).

Refrigerant Piping:

Line sets to be sized based on the connection size of the indoor unit. Each pipe should be insulated individually.



Model: Specifications, Ceiling Cassette Performance & Submittal

208-230V 9k-24k

Ceiling Cassette Air Handler (Heat Pump)

Model				Capacity	Voltage	Product Revision
C	A	S	H		D	A
Ceiling Cassette Heat Pump				09 - 9,000 Btu/h 12 - 12,000 Btu/h 18 - 18,000 Btu/h 24 - 24,000 Btu/h	D - 208-230V/1ph/60Hz	

Indicate the *quantity* of field installed accessories, required for each unit

QTY Ordered	Description	Part Number
	Assembly, Facia, CASH 09/12/18 - <i>Facia is packaged and sold separately [1 per unit 09 / 12 / 18 required]</i>	TMBQ403E
	Assembly, Facia, CASH 24 - <i>Facia is packaged and sold separately [1 per unit is required]</i>	TMBQ02C1
	Optional: Wall Thermostat for Iverter & Deluxe Heat, Fahrenheit	KJR12BDPTF1
	Optional: Wall Thermostat for Iverter & Deluxe Heat, Celsius	KJR12B
	Optional: SPARE Hand Held Infrared Remote Control [NOTE: Each Wall Air Handler comes with a hand held remote, standard]	17317000A14903



Approved:	
Reviewed:	
Contact:	
Address:	
Phone:	
Unit Tag #	
REVISION	

Number of Units Ordered

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Approval

By: _____

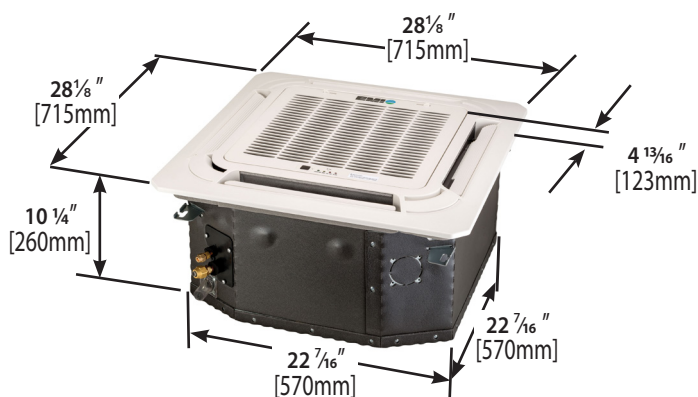
Multi - Zone Systems

208V-230V 9-24k

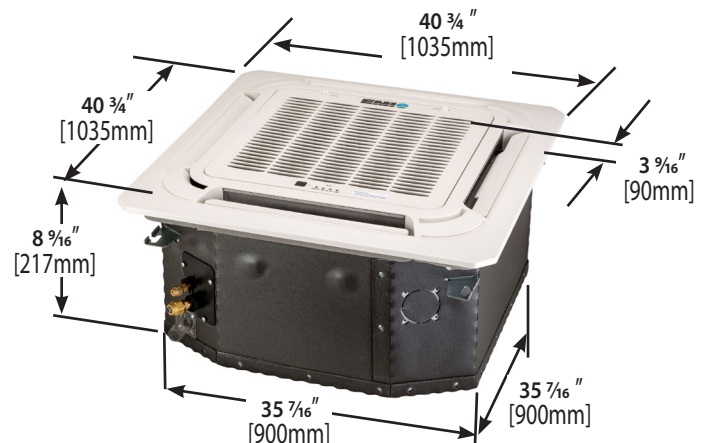
Multi-Zone System Condensers can use
Wall Air Handlers or Ceiling Cassettes

Indoor Cassette Unit Model			CASH09DAA	CASH12DAA	CASH18DAA	CASH24DAA
Power Supply		V-Hz-ph	208-230V-60Hz,1ph	208-230V-60Hz,1ph	208-230V-60Hz,1ph	208-230V-60Hz,1ph
Cooling	Nominal Capacity	Btu/h	9000	12000	17000	24000
	EER		14.5	13.0	12.5	13
	SEER		25	22.5	20	20.5
Heating	Capacity	Btu/h	10900	12000	18000	24000
	HSPF4		11.2	12	10.3	11.5
Indoor air flow (Hi/Mi/Lo)		cfm	374/301/257	379/309/261	560/483/415	700/636/573
Indoor noise level (Hi/Mi/Lo)		dB(A)	41/37/33	43/39/36	44/39/36	51/47/43
Indoor Unit	Dimensions (W*D*H)	inches	22 ⁷ / ₁₆ x 22 ⁷ / ₁₆ x 10 ¹ / ₄	22 ⁷ / ₁₆ x 22 ⁷ / ₁₆ x 10 ¹ / ₄	22 ⁷ / ₁₆ x 22 ⁷ / ₁₆ x 10 ¹ / ₄	35 ⁷ / ₁₆ x 35 ⁷ / ₁₆ x 8 ⁹ / ₁₆
	Dimensions (W*D*H)	mm	570 x 570 x 260	570 x 570 x 260	570 x 570 x 260	900 x 900 x 217
	Weight	lbs.	38.5	41	41.5	54.5
Indoor Unit Facia	Dimensions (W*D*H)	inches	28 ¹ / ₈ x 28 ¹ / ₈ x 4 ¹³ / ₁₆	28 ¹ / ₈ x 28 ¹ / ₈ x 4 ¹³ / ₁₆	28 ¹ / ₈ x 28 ¹ / ₈ x 4 ¹³ / ₁₆	40 ³ / ₄ x 40 ³ / ₄ x 3 ⁹ / ₁₆
	Dimensions (W*D*H)	mm	715 x 715 x 123	715 x 715 x 123	715 x 715 x 123	1035 x 1035 x 90
Refrigerant Piping	Liquid side/Gas side	mm (inch)	6.35 x 9.52 (1/4" x 3/8")	6.35 x 12.7 (1/4" x 1/2")	6.35 x 12.7 (1/4" x 1/2")	9.52 x 15.9 (3/8" x 5/8")
Indoor Fan		RLA	0.9	1.0	1.5	2
Thermostat Setting Range	Indoor(cooling/heating)	°C	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30
	Indoor(cooling/heating)	°F	62~90/32~86	62~90/32~86	62~90/32~86	62~90/32~86

CASH09D, CASH12D, CASH18D



CASH24D



Handheld Remote Controller

Every EMI System comes with an easy to use handheld remote so you can adjust your comfort level at the touch of a button.

- Enabling "Follow Me" Technology.
When "Follow Me" mode is activated, the system switches from air handler-mounted room temperature sensor, to the sensor inside of the infrared handheld remote control. The unit conditions the space where you are, with the remote close at hand.
- Enabling Timer Modes - On a schedule? Control variety of settings with precision through the Timer Mode. Never worry about arriving to a cold home again. If the system stops due to power outage, it will automatically restart to its last setting when the power comes back.



Optional Wired Wall Thermostat

Instead of a hand-held remote controller, the unit can be wired to I-verter or Deluxe Heat wall mounted thermostat.



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All specifications subject to change without notice.
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