

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
 12 - 12,000 Btu/h
 12 - 12,000 Btu/h
 D - 208-230V/1ph/60Hz

 18 - 18,000 Btu/h
 24 - 24,000 Btu/h
 24 - 24,000 Btu/h

	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 #	
REVISON	



	Approval	
 Ву:		

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.



Specifications, Performance & Submittal

Model: Single Zone Condenser 208-230V 9k-24k

Single Zone Condenser (Heat Pump)

Model	Single Z	one	Nominal Rated Capacity	Voltage	Product R <u>evisio</u> n
D H	SZ	1		D	A
Deluxe Heat Series Heat Pump			09 - 9,000 Btu/h 12 - 12,000 Btu/	D - 208-	-230V/1ph/60Hz
			18 - 18,000 Btu/l 24 - 24,000 Btu/	_	

	Indicate the <i>quantity</i> of <u>field</u> installed accessories, required <u>for each unit</u>							
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 only					
	TUBE SET,5/8x3/8X49',15M,24-36,FL,INS,US	F0533492A	24 size only					



Approved:	
Reviewed:	
Contact:	
Address:	
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Unit Tag #	
REVISON	



	Approval	
Ву:		

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Specification and Performance

Single - Zone Systems 208V-230V 9k-24k

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 Btuh to 24,000 Btuh.
- ♦ 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.

Single - Zone Systems 208V-230V 9-24K

Indoor Wall Air Handler Model		del	DHWAL09D	DHWAL12D	DHWAL18D	DHWAL24D
Power Supply		V-Hz-ph	208-230V,60Hz,1ph	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	А	0.036	0.036	0.4	0.23
Indoor air flo	w (Hi/Mi/Lo)	m3/h	628/445/333	631/466/366	901/697/501	1180/1060/824
Indoor air flo	w (Hi/Mi/Lo)	cfm	370/268/196	371/274/198	530/410/295	695/624/485
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	51.7/44.5/35.1
	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
Indoor unit	Packing (W*D*H)	mm	910x270x355	910x270x355	1065x300x400	1265x420x340
Tridoor unit	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	Remote Control
Thermostat	Indoor(cooling/heating)	°C	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30
Setting Range	Indoor(cooling/heating)	°F	62~90/32~86	62~90/32~86	62~90/32~86	62~90/32~86

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

Single - Zone Systems 208V-230V 09-24k

Outdoor Condensing Unit Model		el	DHSZ109DA	DHSZ112DA	DHSZ118DA	DHSZ124DA
Power supply		V-Hz-ph	208-230V-60Hz,1ph	208-230V-60Hz,1ph	208-230V-60Hz,1ph	208-230V-60Hz,1ph
	Capacity	Btu/h	9000	12000	17000	24000
	Input	W	620	960	1360	1920
Cooling	Rated current	А	2.7	4.2	5.95	8.4
	EER		14.5	13	12.5	13
	SEER		25	22.5	20	20.5
	Capacity	Btu/h	10900	12000	18000	24000
	Input	W	835	975	1685	2500
Heating	Rated current	А	3.6	4.2	7.4	10.9
Heating	COP		3.83	3.55	3.13	2.81
	HSPF4		11.2	12	10.3	11.5
	HSPF5		9	9.9	8.8	9.6
MINIMUM CIRCUIT	Γ AMPACITY	А	9	9	18	20
MAX TIME DELAY	FUUSE OR HARC BREAKER	А	15	15	25	30
Outdoor air flow		m3/h	1900	2000	2300	4000
Outdoor air flow		cfm	1120	1180	1355	2355
Outdoor noise leve		dB(A)	55.5	56	57.5	60
	Dimension (W*D*H*)	mm	800x333x554	800x333x554	845x363x702	946x410x810
	Dimension (W*D*H*)	inch	31.50x13.11x21.81	31.50x13.11x21.81	33.27x14.29x27.64	37.24x16.14x31.89
0	Packing (W*D*H*)	mm	920x390x615	920x390x615	965x395x755	1090x500x875
Outdoor unit	Packing (W*D*H*)	inch	36.22x15.35x24.21	36.22x15.35x24.21	37.99x15.55x29.72	42.91x19.69x34.45
	Net/Gross weight	kg	40/42.5	40/42.5	48.7/52.2	61.5/67.5
	Net/Gross weight	lbs.	88.2/93.7	88.2/93.7	107.4/115.1	135.58/148.81
Refigerant type - 4	10A / oz	OZ	52.9	52.9	68.8	91.7
Refrigerant prechar	ge (Total pipe length)	ft	25	25	25	25
Additional charge for	or each ft	0Z	0.161	0.161	0.161	0.322
Design pressure		psig	550/340	550/340	550/340	550/340
	Liquid side/Gas side	inch	1/4" liquid line 3/8" gas line	1/4" liquid line 1/2" gas line	1/4" liquid line 1/2" gas line	3/8" liquid line 5/8" gas line
		mm	6.35 mm liquid line 9.52 mm gas line	6.35 mm liquid line 12.7 mm gas line	6.35 mm liquid line 12.7 mm gas line	9.52 mm liquid line 15.9 mm gas line
Refrigerant piping	Max. refrigerant pipe length	m	25	25	30	50
	Max. refrigerant pipe length	ft	82	82	98	164
	Max. difference in level	m	10	10	20	25
	Max. difference in level	ft	33	33	66	82
	Indoor (cooling/heating)	°C	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30
Operating Range	Indoor (cooling/heating)	°F	62~90/32~86	62~90/32~86	62~90/32~86	62~90/32~86
Ambient Temperature	Outdoor (cooling/heating)	°C	-30~50/-30~30	-30-50/-30-30	-30-50/-30-30	-30-50/-30-30
	Outdoor (cooling/heating)	°F	-22~122/-22~86	-22~122/-22~86	-22~122/-22~86	-22~122/-22~86

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:

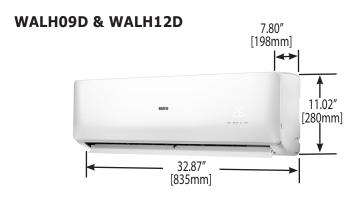
If the calculation results in a negative number no refrigerant is required to be added or removed.

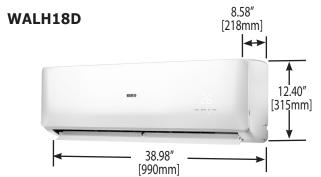
Electronic expansion valves in the outdoor unit are used as metering devices

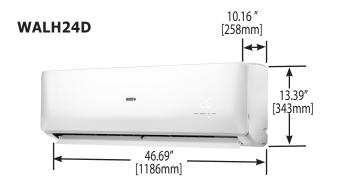
NOTE: The refrigerant charge included is adequate for the outdoor unit's maximum number of zones multiplied by the standard piping length per zone. For piping runs greater than the "Maximum Piping Length with no additional refrigerant charge per System", see Additional Refrigerant Charge (see Table 3).

Refrigerant Piping:

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



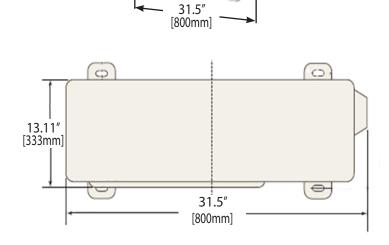


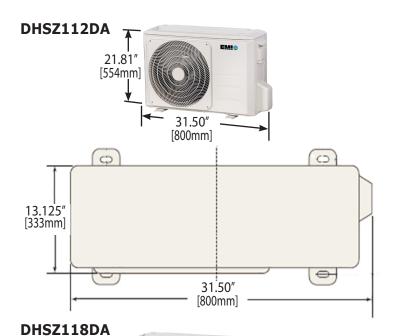


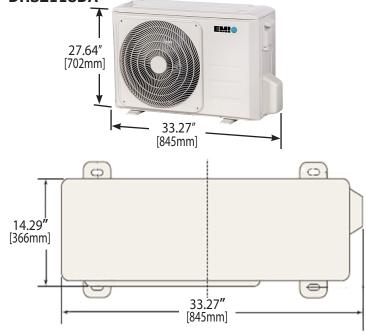
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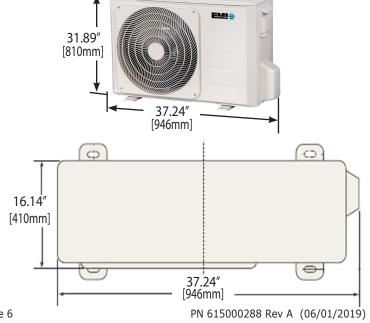
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DHSZ124DA

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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