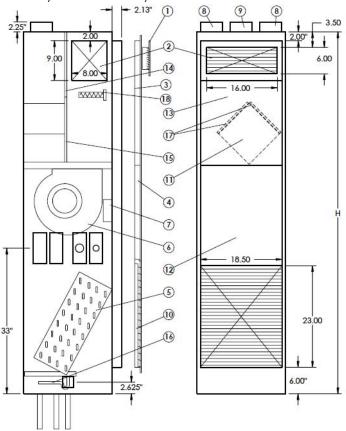
Customer Name	Buckley Associations, Inc.			
Project Name	Heat Pump			
Unit Tag	AHU			
Created By	Yonghong			
Date	May 16th, 2022			
Ref Customer				
Project No				
Project Rev	0			
Unit No				
Unit Rev	0			

Model A-CIDX-350-1200 Weight & Dimensions

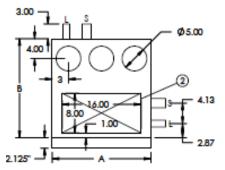
CLIMETEC Heat Pump FANCOIL

Model CIDX - 350~1200 : DX Cooling/Heating CARRIER Ductless ASHP : 18,000btu ~ 48,000btu

- 1. Supply Air Grille
- 2. Optional Side, Front or Top Opening
- 3. Upper Access Panel
- 4. Lower Access Panel
- 5. DX Coil
- 6. Fan Motor
- Electrical Box
- 8. Exhaust Air Intake/Discharge
- 9. Fresh Air Intake
- Return Air Filter
- 11. Removable ERV/HRV Core
- 12. Inner Lower Access Panel
- 13. Inner Upper Access Panel
- 14. Motor Access Panel
- 15. ERV/HRV Core Access Panel
- 16. P-Trap
- 17. ERV/HRV Air Filter
- Optional Auxilary Electric Heater up to 1.5kw@120v, 3.5kw@208v



Performance Range
Air Volume
Fan Coil - 350 to 1200 CFM @ 0.5 ESP
ERV - 50 to 120 CFM up to 1.0 ESP
Thermal Performance
Fan Coil – Nominal 0.75 to 3-ton
cooling Nominal 9 MBH to 36 MBH
heating Nominal 12MBH to 49 MBH



Construction

Cabinet

Cabinet type Single-wall
Exterior Steel Gauge 18 ga galvanized steel
Access Integrated return air access panel
Insulation ½"
Duct configuration Vertical



Freestanding on Floor



AHU Return Air Filter

Type MERV 8
Quantity per circuit 1
Dimensions 24 x 20 x 1 in

ERV OA & RA Filters

Type MERV 8
Quantity per circuit 1
Dimensions 9.5" x 9.25" X 0.375"

Recovery Core

Quantity1TypeEnthalpy Core ERVDimensions10 x 10 x 9.5 inSpacing2.5 mmCondensation pan18 ga galvanized steel

Warranty

Core 5-year limited Unit 2-year limited

Certification



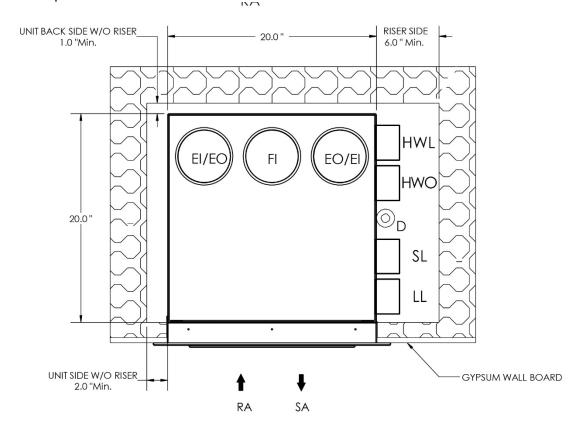
Location

CSA 22,2 No.236-11 UL 1995

Integral ERV Unit Enclosure

Note for the clearance:

- 1. The connection side clearance = the maximum refrigerant line size + insulation + 1". Applicable to Left/Right/Back side.
- 2. The unit side without connection clearance = 2" minimum. Applicable to Left/Right side.
- 3. The unit back side without connection clearance = 1" minimum as general. Applicable to Back side only.
- 4. The unit footprint is 20"x20".



EXAMPLE - CLEARANCE DIMENSIONS FOR ∅3" RETURN RISER WITH 1" INSULATION

NOTE:

EI – EXHAUST AIR INTAKE FROM BATHROOM

FI - FRESH AIR INTAKE FROM OUTSIDE

EO - EXHAUST AIR TO OUTSIDE

SA - SUPPLY AIR

RA - RETURN AIR

SL - SUCTION LINE CONNECTION

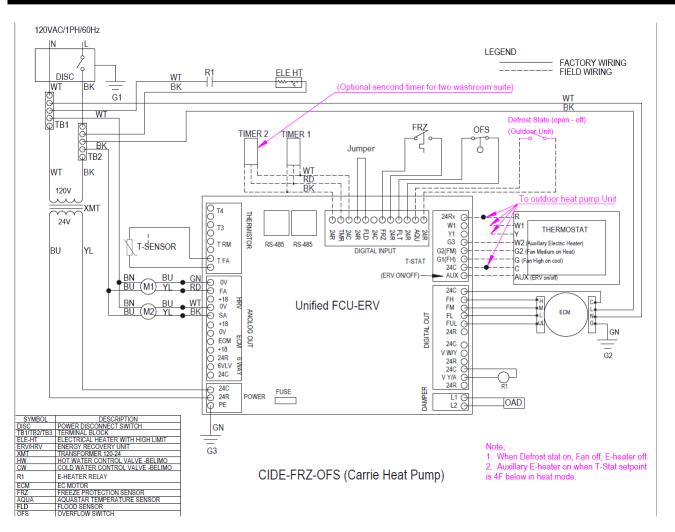
LL - LIQUID LINE CONNECTION

D – CONDENSATE LINE

HWL - HOT WATER LINE

HWO - HOT WATER OUTLET

Electrical Configuration Diagram



Electrical Load

AHU ECM Blower Motor	(Model 350 to 800)	AHU ECM Blower Moto	r (Model 1000 & 1200)
Power	0.25 HP	Power	0.33 HP
Motor's Voltage	120/1/60	Motor's Voltage	120/1/60
FLA	2.6 A	FLA	4.2 A
Starter	ECM	Starter	ECM
ERV ECM Supply Motor		ERV ECM Exhaust Motor	
EKA ECINI Subbi	, MOTO!		
Power	0.1 HP	Power	0.1 HP
_			0.1 HP 120/1/60
Power	0.1 HP	Power	• • • • • • • • • • • • • • • • • • • •

Job Name

Auxiliary Electric Heater

 Power
 1.5 Kw

 Voltage
 120/1/60

 FLA
 12.5 A

Unit's main Voltage (Model 350 to 800)

Main Disc
Voltage 120/1/60

FLA 15.9 A

MCA 19.9 A

MOP 18 A

Breaker Size 20 A

Unit's main Voltage (Model 1000 to 1200)

Main Disc
Voltage 120/1/60

FLA 18.1 A

MCA 22.6 A

MOP 23 A

Breaker Size 30 A

AHU Controls and Components

Unit Controls

- The AHU control board controls fan motor speed, flow values.
- The system can monitor temperature as well as up to two inputs (24 volts).
- The device has an output for a single damper (logic 1/0)
- The control board allows the user to set the system parameters as well as restore the factory defaults without the use of any external programmer.
- Drain pan overflow protection control
- Anti-ice protection control
- Fan off defrost control coordinating with outdoor unit defrost state.

Components

- MERV 8 filters on RA: MERV 8 filter rack in the return air circuit.
- EC Motor on supply air motor: The fresh air motor is controlled by an EC Motor installed inside the unit and powered by the unit.
- DX Heat Pump Coil: 600 psi rated, without flow restrictor, with an access port. DX Cooling/Heating coil
 installed inside of the unit with connections at the side, c/w drain pan. All controls and condensation unit
 by others.
- Auxiliary Electric Heater: 1.5kw @ 120v/1ph/60hz.
- Closed cell flexible elastomeric foam insulation.
- Drain pan overflow switch.
- Disconnect: The unit will be equipped with a toggle disconnect.
- Vibration isolation pad.

Fan Coil Features

- Integrated ERV fan coil units, concealed.
- Outer case 18 ga. satin steel, 82" high cabinet.
- Fully lined with ½" EPDM elastomeric closed cell insulation with low moisture absorption and low vapor transmission, with smooth and durable surface.
- Unit mounted return air access panel with hinged doors and supply air grilles with appliance white finish.
- 4-speed 1/4 hp ECM motor or 1/3 hp ECM motor for above 800 CFM, painted steel, or galvanized fan housing.
- Constant ultra-low fan speed.
- Drain pan 18-gauge, galvanized steel with corrosion resistant powder coat finish and insulated below.

Sequence of Operations

- The Integrated Fan Coil Unit (FCU) will be controlled via a unit or wall mounted thermostat (both options by others). Typically, it is a 7-day programmable thermostat.
 - A temperature sensor within the TSTAT controller (by others) shall sense the actual space temperature and shall compare this with its preset set point and provide a call for cooling.
 - The ERV module will be controlled by the various control options.

Occupied / Unoccupied – Set Back					
Call for heating	No CALL from TSTAT - STAND BY				
SA FAN ON HIGH Outdoor Unit ON	SA FAN ON HIGH Outdoor Unit ON	SA FAN ON ULTRA LOW			
ERV ON LOW	ERV ON LOW	ERV ON LOW			

Note #1: When the Bathroom timer (if applied) is set to 20 - 40 - 60 minutes the ERV/HRV Fan will run on HIGH speed for the time selected. After the time duration ERV/HRV Fan will switch back to LOW.

Note #2: an ERV on/off control is available in Climetec thermostat which can turn ERV off. When the ERV is off, the bathroom timer can still energize the exhaust fan for the time period.

ERV Module

ERV Features

- Two constant airflow fans, one fresh air intake, another for exhaust
- Factory balanced ECM motors (1/10 HP)
- High speed regulates to 120 CFM
- Low speed between 50-75 CFM
- ERV washable core 10"x10"x9.5"
- 2 washable MERV 8 filters 9.5"x9.25"x3/8"
- Duct connections: 5" plastic duct connections
- Drain: Drain pan on bottom with 2-piece 3/8" OD drain connection
- The ERV Control Board functions with several modes of operation including a fan timer, thermostat input, standby, and defrost.

Frost control

- Defrost Units are equipped with a fan defrost system; when the supply temperature is under 45° F
 (outdoor air temp below 23° F), the supply fan will shut down, the OUTSIDE air damper closes, and the
 exhaust fan keeps running. Defrost cycles are 20 minutes of normal operation followed by 5 minutes of
 defrost.
- Frost protection system Units are equipped with a FROST PROTECTION system to prevent coil freeze
 issue in case of malfunction. A temperature sensor measures the supply air temperature. If the
 temperature gets below 32° F, an EMERGENCY DEFROST is instantaneously activated; the SUPPLY
 FAN will shut down and the OUTSIDE air damper will close for 90 minutes.

Exchanger Efficiency



EMR-250-236-260-CY-S

General Information

 Model:
 Residential, M-Series
 Elevation:
 0 Ft.
 Weight:
 2.51 lb

 Frame Type:
 Plastic, Coroplast Y Frame
 Pressure:
 1013 mbar
 Tag:

Design Conditions

Winter Outdoor Return Outdoor Return Standard Airflow 50 50 50 CFM 50 Dry Bulb Temp 75 0 70 Wet Bulb Temp 73.6 64.5 -0.5 58.9 Relative Humidity 47.9 56.6 81.6 51.2

Product Dimensions

A-Width: 9.3 In.
B-Plate Size: 9.9
C-Plate Spacing: 2.6 mm
D-Diagonal: 14 In.
G-Number of Sections: 1



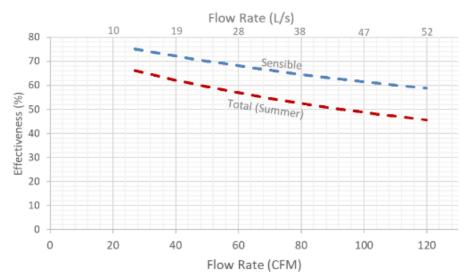
	Sum	mer	Winter				
	Outdoor (OA)	Return (RA)	Outdoor (OA)	Return (RA)			
Airflow CFM	50	50	50	50			
Dry Bulb Temp °F	89	75	0	70			
Wet Bulb Temp °F	73.6	64.5	-0.5	58.9			
Enthalpy (H) BTU/lb	36.33	29.13	0.07	24.97			
Moisture Ratio (MR) grains/lb	95	70.94	0.37	52.15			
Energy (Q) Btuh	8335	6682	17	5728			
	Exhaust (EA)	Supply (SA)	Exhaust (EA)	Supply (SA)			
Alefform OFM	50	50	En.				

	Exhaust (EA)	Supply (SA)	Exhaust (EA)	Supply (SA)
Airflow CFM	50	50	50	50
Dry Bulb Temp °F	84.8	79.2	21.5	49
Wet Bulb Temp °F	69.5	67.6	21.5	41.8
Enthalpy (H) BTU/lb	33.52	31.94	7.65	16.04
Moisture Ratio (MR) grains/lb	83.58	82.37	16.14	27.57
Energy (Q) Btuh	7689	7328	1755	3680
			4-	

		Summer	Winter
Supply pressure drop (PD)	In.wg	0.1	0.1
Exhaust pressure drop (PD)	In.wg	0.12	0.12
Sensible effectiveness	%:	69.9	69.9
Latent effectiveness	%:	52.5	52.5
Total effectiveness	%:	60.9	64.1
Energy Recover Ratio	%:	60.9	64.1
Supply air face velocity	SFPM	79.94	79.94
Exhaust air face velocity	SFPM	79.94	79.94
Moisture removed	lb/h	0.41	0.89
Total energry saved	Btuh	1007	3664
Energy balance	%:	69.9	69.9
Water balance	%:	52.5	52.5

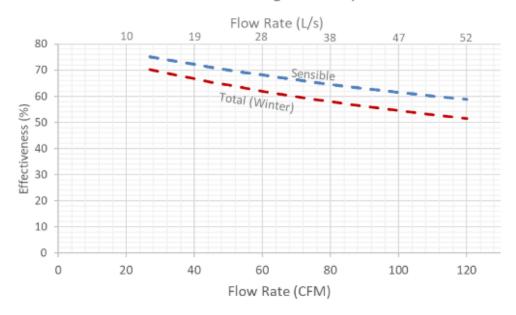
EMC-250-236-260-00-S



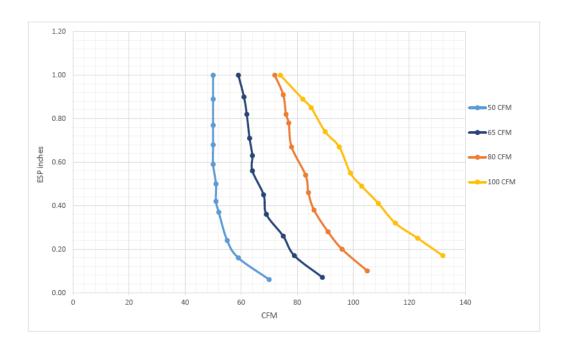


EMC-250-236-260-00-S

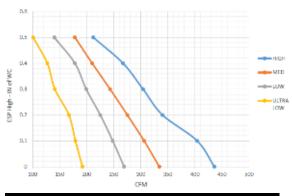
Climetec Exchanger Efficiency



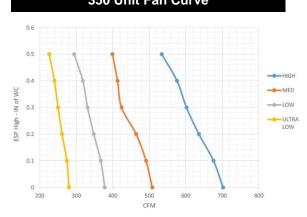
Performance Integral Thermal Recovery Fan Curves for ERV



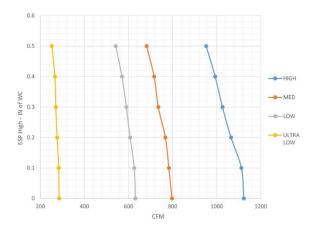
Airflow Details



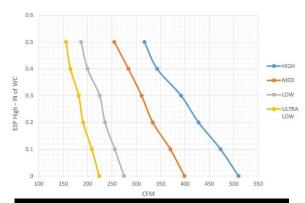
350 Unit Fan Curve



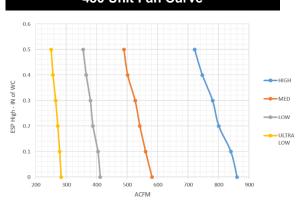
650 Unit Fan Curve



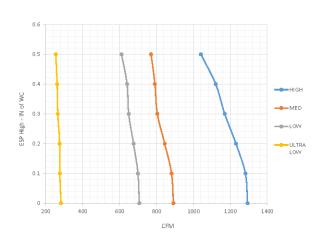
1000 Unit Fan Curve



450 Unit Fan Curve



800 Unit Fan Curve



1200 Unit Fan Curve

	Coil Spe	cifications	
	DX Cooling Co	il Model A-CID-350	
	_	Number of circuits	4
		Number of rows	3
		Fins per inch	12
Drain connection location	Side		
Connections location	Side		
Refrigerant	R410a	Entering Air dry bulb	78 °F
SuperHeat	10.0 °F	Entering Air wet bulb	65 °F
Liquid Temperature	105 °F		
Suction Temperature	42 °F	Leaving air dry bulb	52.6 °F
Refrigerant Pressure Drop	0.4 psi	LWB	52 °F
Refrigerant Mass Flow	193 Lb/H	Total Capacity	13,469 BTU/hr
Internal Volume	73.4 in^3	Sensible Capacity	9,303 BTU/hr
	DX Heating Co	il Model A-CID-350	
		Number of circuits	4
		Number of rows	3
		Fins per inch	12
Drain connection location	Side		
Connections location	Side		
Refrigerant	R410a	Entering Air dry bulb	78 °F
SuperHeat	°F	Entering Air wet bulb	65 °F
Liquid Temperature	111 °F		
Suction Temperature	180 °F	Leaving air dry bulb	111.8 °F
Refrigerant Pressure Drop	0.4 psi	-	
Refrigerant Mass Flow	193 Lb/H	Total Capacity	12,776 BTU/hr
Internal Volume	73.4 in^3		

Outdoor Model:

38MARBQ12AA3



Submittal Data

Turn to the experts

Job Data:		Location:	
Buyer:	Buyer P.O. #:	Carrier #:	
Unit #:		Model #:	
	Performance Data Certified By:	Date:	



STANDARD FEATURES

- Variable Speed (Inverter)
- Factory installed Base Pan Heater
- · Factory installed Crankcase Heater
- Low Voltage Controls
- Auto-Restart function
- Condenser High Temp Protection
- Modes: Cool, Heat, Dry, Fan, Auto
- Quiet operation
- · Anti-corrosive fin coating

LIMITED WARRANTY*

• 10 year limited to original purchaser on compressor and parts upon timely registration, otherwise 5 years

Sa Et

*For residential applications. See warranty for full details.

Eaco Aroa



NOTE: Images for illustration purposes only. Actual models may be slightly different.

System	System Size		12
System	Outdoor Model	38MARBQ12AA3	
	Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60
Electrical	MCA	A.	15
Liectrical	Recommended Fuse Size	A.	15
	MOCP - Fuse Rating	A.	15
Operating	Cooling Outdoor DB Min - Max	°F(°C)	-22~122 (-30~50)
Range	inge Heating Outdoor DB Min - Max		-22~86 (-30~30)
	Total Piping Length	ft (m)	82 (25)
Piping	Piping Lift [*]	ft (m)	32 (10)
Fibility	Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)
	Pipe Connection Size - Suction	in (mm)	1/2 (12.7)
	Refrigerant Type		R410A
Refrigerant	Metering Device		EEV
	Charge	lbs (kg)	2.6 (1.18)

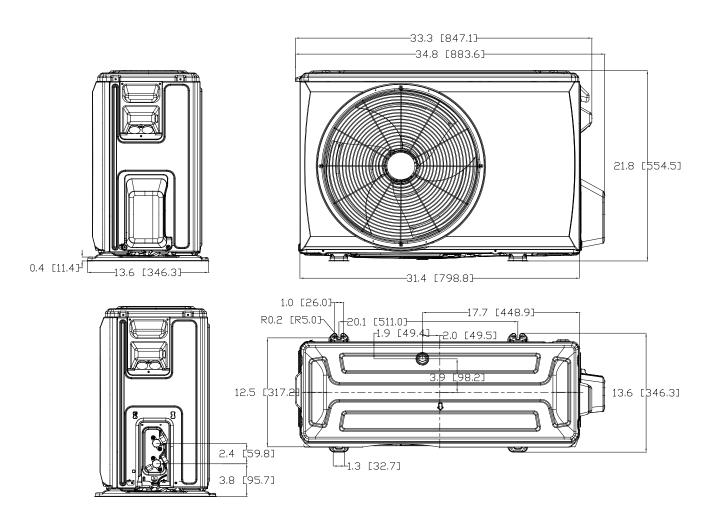
^{*} Condensing unit above or below indoor unit

See compatibility chart for additional model specific information

	Face Area	Sq. Ft.	4.7
Outdoor Coil	No. Rows		2
Outdoor Con	Fins per inch		20
	Circuits		4
	Туре		Rotary Inverter
	Model		KTN110D42UFZ
Compressor	Oil Type		VG74
	Oil Charge	Fl. Oz.	11.8
	Rated Current	RLA	8.5
	Unit Width	in (mm)	31.69 (805)
Outdoor	Unit Height	in (mm)	21.81 (554)
	Unit Depth	in (mm)	12.99 (330)
	Net Weight	lbs (kg)	73.63 (33.4)
	Airflow	CFM	1,324
	Sound Pressure	dB(A)	56.0

Construction View

Outdoor Model: 38MARBQ12AA3







Replaces: 38MARB-12-3-03SB

24V Interface Kit 2nd Generation Ductless Systems

Model: KSAIC0301230 (208-230V)

Submittal Data

Job Data:		Location:	
Buyer:	Buyer P.O. #:		_ Carrier #:
Unit Number:	Model Number:		
Performance Data Certified By:		Date:	



The 24V INTERFACE KIT 2nd Generation is used to connect:

- A **SINGLE ZONE** Ductless System to a 3rd party single stage conventional thermostat (sold separately) providing AUTO fan speed on the indoor unit.
- A **MULTI-ZONE** Ductless System to a 3rd party single stage conventional thermostat (sold separately) providing AUTO fan speed on the indoor unit.
- A **SINGLE ZONE** Ductless Condensing Unit with an approved Fan Coil/Furnace/Cased Coil and a third party single stage conventional thermostat (sold separately) allowing up to 3 different fan speeds on the indoor unit.

Features

- AUTO Fan speed on Single Zone and Multi-zone on Ductless applications
- Up to 3 Fan speeds on Single Zone Ductless Outdoor matched with Multifamily Fan Coils, Furnace/Cased Coils applications.
- One 24V INTERFACE KIT per indoor head
- Keeps the Inverter Compressor operating as a Variable Speed System
- · Rated for outdoor and indoor mounting
- Dry mode contact for active dehumidification control
- Remote ON/OFF contact
- · Auxiliary Heat control through the thermostat
- Diagnostic code display LEDs
- 208/230V Transformer Built-in

Parts included

- o 24V INTERFACE Control Box
- o Installation manual
- o Wall anchors
- Screws M4X20mm
- •16.4ft. (5m) Return Air Thermistor Assembly required and installed near or on the unit and on the air inlet side

Accessories, Sold Separately

- $\hfill\square$ 115V transformer RCD# 11203103000393, used only on ductless systems with 115V power.
- □ Piping Adaptor Kit RCD# 331831-701, used ONLY on Multifamily applications with the FMA4, FMC and FMU fan coils to facilitate piping installation when removing the TXV kit from the indoor unit

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Edition Date: 03/19

Catalog No: SUB-KSAIC0301230-01

ESE Pro SMART THERMOSTAT

Pleasant user experience

Personalize your time schedule

Achieve all day comfort

Improved programming function and visual appearance

Smooth lines and natural curves

Key Features

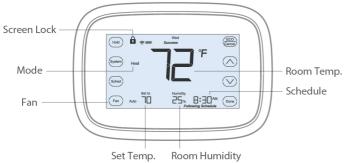
- > Up to 2heat/2cool
- > Humidity sensor
- > ECO mode saving energy
- > 802.11 b/g/n Wi-Fi connection @ 2.4GHz
- → 7-Day programmable with auto changeover → 158x109x26mm(LxWxH)
- > 3 Fan speeds For High Rise Fancoil

- > Keypad lock
- > Pre-cooling/heating
- > Compressor protection
- > 24VAC power (C-wire required)
- > Auxiliary ERV/HRV On/Off control
- > Compatible with gas/oil/electric boiler, furnace, heat pump, air-conditioning, High Rise Fancoil





User Interface

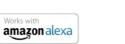


Teminal Block













CLimetec Manufacturing Ltd. 161 Milani Blvd. Woodbridge, Ontario, L4H4M4, Canada Phone: (905)-660-0700

	Coil Spe	cifications			
DX Cooling Coil Model A-CID-450					
		Number of circuits	4		
		Number of rows	3		
		Fins per inch	12		
Drain connection location	Side				
Connections location	Side				
Refrigerant	R410a	Entering Air dry bulb	78 °F		
SuperHeat	10.0 °F	Entering Air wet bulb	65 °F		
Liquid Temperature	105 °F				
Suction Temperature	42 °F	Leaving air dry bulb	53.9 °F		
Refrigerant Pressure Drop	0.5 psi	LWB	53°F		
Refrigerant Mass Flow	233 Lb/H	Total Capacity	16,283 BTU/hr		
Internal Volume	73.4 in^3	Sensible Capacity	11,353 BTU/hr		
	DX Heating Co	il Model A-CID-450			
	_	Number of circuits	4		
		Number of rows	3		
		Fins per inch	12		
Drain connection location	Side				
Connections location	Side				
Refrigerant	R410a	Entering Air dry bulb	78 °F		
SuperHeat	°F	Entering Air wet bulb	65 °F		
Liquid Temperature	111 °F	-			
Suction Temperature	180 °F	Leaving air dry bulb	111.8 °F		
Refrigerant Pressure Drop	0.5 psi	- ,			
Refrigerant Mass Flow	233 Lb/H	Total Capacity	16,427 BTU/hr		
Internal Volume	73.4 in^3	. ,	•		

Outdoor Unit Single Zone Heat Pump Ductless System

Outdoor Model:

38MARBQ18AA3



Submittal Data

Turn to the experts

Job Data:		Location:	
		_ _	
Buyer:	Buyer P.O. #:	Carrier #:	
Unit Number:		Model Number:	
			
	Performance Data Certified By:	Date:	



STANDARD FEATURES

- Variable Speed (Inverter)
- Factory installed Base Pan Heater
- Factory installed Crankcase Heater
- Low Voltage Controls
- · Auto-Restart function
- Condenser High Temp Protection
- Modes: Cool, Heat, Dry, Fan, Auto
- · Quiet operation
- · Anti-corrosive fin coating

LIMITED WARRANTY*

• 10 year limited to original purchaser on compressor and parts upon timely registration, otherwise 5 years *For residential applications.

See warranty for full details.



NOTE: Images for illustration purposes only. Actual models may be slightly different.

System	Size	18	
System	Outdoor Model	38MARBQ18AA3	
	Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60
Electrical	MCA	A.	16
Electrical	Recommended Fuse Size	A.	20
	MOCP - Fuse Rating	A.	25
Operating	Operating Cooling Outdoor DB Min - Max		-22~122 (-30~50)
Range	Heating Outdoor DB Min - Max	°F(°C)	-22~86 (-30~30)
	Total Piping Length	ft (m)	98 (30)
Piping	Piping Lift*	ft (m)	65 (20)
Fibilig	Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)
	Pipe Connection Size - Suction	in (mm)	1/2 (12.7)
	Refrigerant Type		R410A
Refrigerant	Metering Device	EEV	
	Charge	lbs (kg)	4.08 (1.85)

^{*} Condensing unit above or below indoor unit

See compatibility chart for additional model specific information

	Face Area Sq. Ft.		5.9
Outdoor Coil	No. Rows		2
Outdoor Con	Fins per inch		20
	Circuits		6
	Туре		Rotary Inverter
	Model		KTM240D43UKT
Compressor	Oil Type		VG74
	Oil Charge	Fl. Oz.	21.0
	Rated Current	RLA	14.3
	Unit Width	in (mm)	35.04 (890)
	Unit Height	in (mm)	26.50 (673)
Outdoor	Unit Depth	in (mm)	13.46 (342)
Outdoor	Net Weight	lbs (kg)	100.97 (45.8)
	Airflow	CFM	1,765
	Sound Pressure	dB(A)	59.0

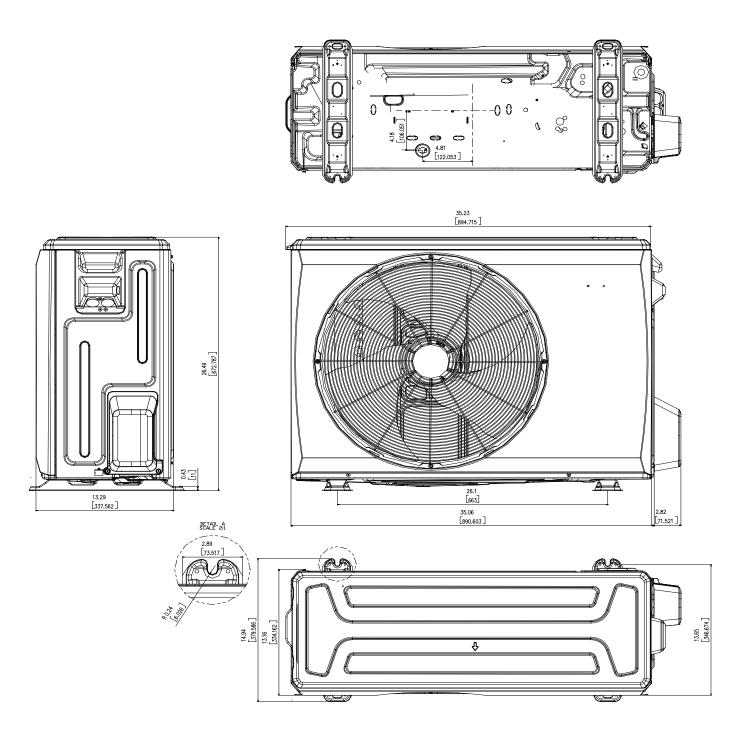
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Edition Date: 01/2022

Catalog No: 38MARB-18-3-04SB

Construction View

Outdoor Model: 38MARBQ18AA3







24V Interface Kit 2nd Generation Ductless Systems

Model: KSAIC0301230 (208-230V)

Submittal Data

Job Data:		Location:	
Buyer:	Buyer P.O. #:		_ Carrier #:
Unit Number:	Model Number:		
Performance Data Certified By:		Date:	



The 24V INTERFACE KIT 2nd Generation is used to connect:

- A **SINGLE ZONE** Ductless System to a 3rd party single stage conventional thermostat (sold separately) providing AUTO fan speed on the indoor unit.
- A **MULTI-ZONE** Ductless System to a 3rd party single stage conventional thermostat (sold separately) providing AUTO fan speed on the indoor unit.
- A **SINGLE ZONE** Ductless Condensing Unit with an approved Fan Coil/Furnace/Cased Coil and a third party single stage conventional thermostat (sold separately) allowing up to 3 different fan speeds on the indoor unit.

Features

- AUTO Fan speed on Single Zone and Multi-zone on Ductless applications
- Up to 3 Fan speeds on Single Zone Ductless Outdoor matched with Multifamily Fan Coils, Furnace/Cased Coils applications.
- One 24V INTERFACE KIT per indoor head
- Keeps the Inverter Compressor operating as a Variable Speed System
- · Rated for outdoor and indoor mounting
- Dry mode contact for active dehumidification control
- Remote ON/OFF contact
- · Auxiliary Heat control through the thermostat
- Diagnostic code display LEDs
- 208/230V Transformer Built-in

Parts included

- o 24V INTERFACE Control Box
- o Installation manual
- o Wall anchors
- Screws M4X20mm
- •16.4ft. (5m) Return Air Thermistor Assembly required and installed near or on the unit and on the air inlet side

Accessories, Sold Separately

- $\hfill\square$ 115V transformer RCD# 11203103000393, used only on ductless systems with 115V power.
- □ Piping Adaptor Kit RCD# 331831-701, used ONLY on Multifamily applications with the FMA4, FMC and FMU fan coils to facilitate piping installation when removing the TXV kit from the indoor unit

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Edition Date: 03/19

Catalog No: SUB-KSAIC0301230-01

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Improved programming function and visual appearance

Smooth lines and natural curves

Key Features

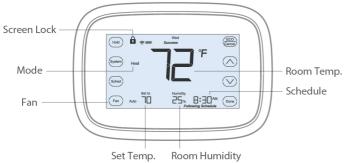
- > Up to 2heat/2cool
- > Humidity sensor
- > ECO mode saving energy
- > 802.11 b/g/n Wi-Fi connection @ 2.4GHz
- → 7-Day programmable with auto changeover → 158x109x26mm(LxWxH)
- > 3 Fan speeds For High Rise Fancoil

- > Keypad lock
- > Pre-cooling/heating
- > Compressor protection
- > 24VAC power (C-wire required)
- > Auxiliary ERV/HRV On/Off control
- > Compatible with gas/oil/electric boiler, furnace, heat pump, air-conditioning, High Rise Fancoil





User Interface

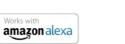


Teminal Block













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	Coil Specifications			
	DX Cooling Co	il Model A-CID-650		
		Number of circuits	4	
		Number of rows	3	
		Fins per inch	12	
Drain connection location	Side			
Connections location	Side			
Refrigerant	R410a	Entering Air dry bulb	78 °F	
SuperHeat	10.0 °F	Entering Air wet bulb	65 °F	
Liquid Temperature	105 °F			
Suction Temperature	42 °F	Leaving air dry bulb	54.2 °F	
Refrigerant Pressure Drop	1.0 psi	LWB	53.5 °F	
Refrigerant Mass Flow	333.2 Lb/H	Total Capacity	23,246 BTU/hr	
Internal Volume	86.1 in^3	Sensible Capacity	16,178 BTU/hr	
	DV Heating Ca	I Madal A CID CEO		
	DA Heating Co	I Model A-CID-650 Number of circuits	4	
		Number of rows	3	
		Fins per inch	12	
Drain connection location	Side	i illo por illori	12	
Connections location	Side			
		A: I I II	70.05	
Refrigerant	R410a	Entering Air dry bulb	78 °F	
SuperHeat	°F	Entering Air wet bulb	65 °F	
Liquid Temperature	111 °F			
Suction Temperature	180 °F	Leaving air dry bulb	111.8 °F	
Refrigerant Pressure Drop	1.0 psi			
Refrigerant Mass Flow	333.2 Lb/H	Total Capacity	26,309 BTU/hr	
Internal Volume	86.1 in^3			

Outdoor Unit Single Zone Heat Pump Ductless System

Outdoor Model:

38MARBQ24AA3



Submittal Data

Turn to the experts

Job Data:		Location:	
Buyer:	Buyer P.O. #:	Carrier #:	
Unit Number:		Model Number:	
	Performance Data Certified By:	Date:	



STANDARD FEATURES

- Variable Speed (Inverter)
- Factory installed Base Pan Heater
- Factory installed Crankcase Heater
- Low Voltage Controls
- Auto-Restart function
- Condenser High Temp Protection
- Modes: Cool, Heat, Dry, Fan, Auto
- Quiet operation
- · Anti-corrosive fin coating

LIMITED WARRANTY*

• 10 year limited to original purchaser on compressor and parts upon timely registration, otherwise 5 years

*For residential applications. See warranty for full details.



NOTE: Images for illustration purposes only. Actual models may be slightly different.

System	Size	24	
System	Outdoor Model	38MARBQ24AA3	
	Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60
Electrical	MCA	A.	25
Liectrical	Recommended Fuse Size	A.	30
	MOCP - Fuse Rating	A.	35
Operating	Cooling Outdoor DB Min - Max	°F(°C)	-22~122 (-30~50)
Range	Heating Outdoor DB Min - Max	°F(°C)	-22~86 (-30~30)
	Total Piping Length	ft (m)	164 (50)
Piping	Piping Lift*	ft (m)	82 (25)
Fibility	Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)
	Pipe Connection Size - Suction in (mm)		5/8 (16)
	Refrigerant Type	R410A	
Refrigerant	Metering Device	EEV	
	Charge	lbs (kg)	5.73 (2.6)

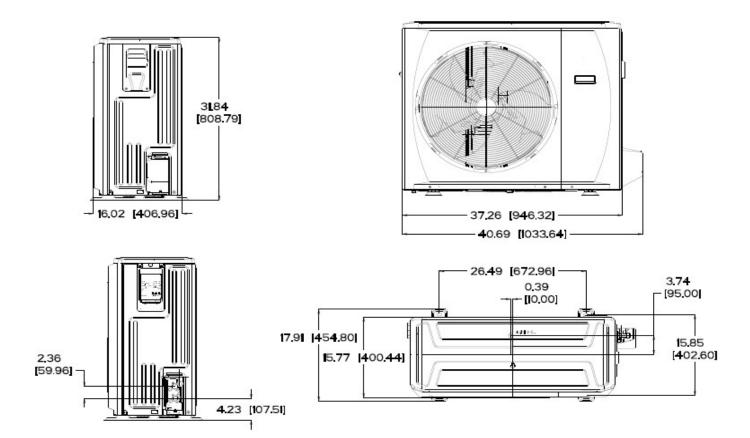
^{*} Condensing unit above or below indoor unit

See compatibility chart for additional model specific information

	Face Area	Sq. Ft.	8.2	
Outdoor Coil	No. Rows		2	
Outdoor Con	Fins per inch		20	
	Circuits		4	
	Туре		Rotary Inverter	
	Model		KTM240D43UKT	
Compressor	Oil Type		VG74	
	Oil Charge	Fl. Oz.	21.0	
	Rated Current	RLA	14.8	
	Unit Width	in (mm)	37.24 (946)	
	Unit Height	in (mm)	31.89 (810)	
Outdoor	Unit Depth	in (mm)	16.14 (410)	
Outdoor	Net Weight	lbs (kg)	134.48 (61)	
	Airflow	CFM	2,235	
	Sound Pressure	dB(A)	62.0	

Construction View

Outdoor Model: 38MARBQ24AA3







Replaces: 38MARB-24-3-02SB

24V Interface Kit 2nd Generation Ductless Systems

Model: KSAIC0301230 (208-230V)

Submittal Data

Job Data:		Location:	
Buyer:	Buyer P.O. #:		_ Carrier #:
Unit Number:	Model Number:		
Performance Data Certified By:		Date:	



The 24V INTERFACE KIT 2nd Generation is used to connect:

- A **SINGLE ZONE** Ductless System to a 3rd party single stage conventional thermostat (sold separately) providing AUTO fan speed on the indoor unit.
- A **MULTI-ZONE** Ductless System to a 3rd party single stage conventional thermostat (sold separately) providing AUTO fan speed on the indoor unit.
- A **SINGLE ZONE** Ductless Condensing Unit with an approved Fan Coil/Furnace/Cased Coil and a third party single stage conventional thermostat (sold separately) allowing up to 3 different fan speeds on the indoor unit.

Features

- AUTO Fan speed on Single Zone and Multi-zone on Ductless applications
- Up to 3 Fan speeds on Single Zone Ductless Outdoor matched with Multifamily Fan Coils, Furnace/Cased Coils applications.
- One 24V INTERFACE KIT per indoor head
- Keeps the Inverter Compressor operating as a Variable Speed System
- · Rated for outdoor and indoor mounting
- Dry mode contact for active dehumidification control
- Remote ON/OFF contact
- · Auxiliary Heat control through the thermostat
- Diagnostic code display LEDs
- 208/230V Transformer Built-in

Parts included

- o 24V INTERFACE Control Box
- o Installation manual
- o Wall anchors
- Screws M4X20mm
- •16.4ft. (5m) Return Air Thermistor Assembly required and installed near or on the unit and on the air inlet side

Accessories, Sold Separately

- $\hfill\square$ 115V transformer RCD# 11203103000393, used only on ductless systems with 115V power.
- □ Piping Adaptor Kit RCD# 331831-701, used ONLY on Multifamily applications with the FMA4, FMC and FMU fan coils to facilitate piping installation when removing the TXV kit from the indoor unit

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Key Features

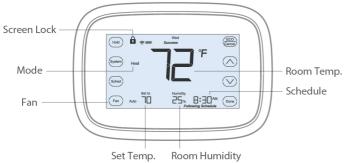
- > Up to 2heat/2cool
- > Humidity sensor
- > ECO mode saving energy
- > 802.11 b/g/n Wi-Fi connection @ 2.4GHz
- → 7-Day programmable with auto changeover → 158x109x26mm(LxWxH)
- > 3 Fan speeds For High Rise Fancoil

- > Keypad lock
- > Pre-cooling/heating
- > Compressor protection
- > 24VAC power (C-wire required)
- > Auxiliary ERV/HRV On/Off control
- > Compatible with gas/oil/electric boiler, furnace, heat pump, air-conditioning, High Rise Fancoil





User Interface

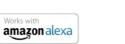


Teminal Block













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Internal Volume

	Coil Spe	cifications	
	DX Cooling Co	il Model A-CID-800	
		Number of circuits	5
		Number of rows	3
		Fins per inch	12
Drain connection location	Side		
Connections location	Side		
Refrigerant	R410a	Entering Air dry bulb	78 °F
SuperHeat	10.0 °F	Entering Air wet bulb	65 °F
Liquid Temperature	105 °F		
Suction Temperature	42 °F	Leaving air dry bulb	54.2 °F
Refrigerant Pressure Drop	0.9 psi	LWB	53.5 °F
Refrigerant Mass Flow	412 Lb/H	Total Capacity	28,743 BTU/hr
Internal Volume	105 in^3	Sensible Capacity	19,987 BTU/hr
	DX Heating Co	il Model A-CID-800	
		Number of circuits	5
		Number of rows	3
		Fins per inch	12
Drain connection location	Side		
Connections location	Side		
Refrigerant	R410a	Entering Air dry bulb	78 °F
SuperHeat	°F	Entering Air wet bulb	65 °F
Liquid Temperature	111 °F		
Suction Temperature	180 °F	Leaving air dry bulb	111.8 °F
Refrigerant Pressure Drop	0.9 psi		
Refrigerant Mass Flow	412 Lb/H	Total Capacity	29,203 BTU/hr
1.4 137.1	40-0:40		

105.2 in^3

Outdoor Unit Single Zone Heat Pump Ductless System

Outdoor Model:

38MARBQ30AA3



Submittal Data

Turn to the experts

Job Data:		Location:	
Buyer:	Buyer P.O. #:	Carrier #:	
Jnit Number:		Model Number:	
	Performance Data Certified By:	Date:	



STANDARD FEATURES

- Variable Speed (Inverter)
- Factory installed Base Pan Heater
- Factory installed Crankcase Heater
- Low Voltage Controls
- Auto-Restart function
- Condenser High Temp Protection
- · Modes: Cool, Heat, Dry, Fan, Auto
- Quiet operation
- · Anti-corrosive fin coating

LIMITED WARRANTY*

- 10 year limited to original purchaser on compressor and parts upon timely registration, otherwise 5 years
- *For residential applications. See warranty for full details.

NOTE: Images for illustration purposes only. Actual models may be slightly different.

System	Size	30	
System	Outdoor Model	38MARBQ30AA3	
	Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60
Electrical	MCA	A.	23
Electrical	Recommended Fuse Size	A.	25
	MOCP - Fuse Rating	A.	30
Operating	Cooling Outdoor DB Min - Max	°F(°C)	-22~122 (-30~50)
Range	Heating Outdoor DB Min - Max	°F(°C)	-22~86 (-30~30)
	Total Piping Length	ft (m)	164 (50)
Piping	Piping Lift*	ft (m)	82 (25)
Fibility	Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)
	Pipe Connection Size - Suction	in (mm)	5/8 (16)
	Refrigerant Type	R410A	
Refrigerant	Metering Device	EEV	
	Charge	lbs (kg)	6.06 (2.75)

^{*} Condensing unit above or below indoor unit

See compatibility chart for additional model specific information

	Face Area	Sq. Ft.	13.1
Outdoor Coil	No. Rows		3
Outdoor Con	Fins per inch		18
	Circuits		6
	Туре		Rotary Inverter
	Model		KTF250D22UMT
Compressor	Oil Type		VG74
	Oil Charge	Fl. Oz.	22.7
	Rated Current	RLA	15.0
	Unit Width	in (mm)	37.24 (946)
	Unit Height	in (mm)	31.89 (810)
Outdoor	Unit Depth	in (mm)	16.14 (410)
Cuidooi	Net Weight	lbs (kg)	141.76 (64.3)
	Fins per inch Circuits Type Model Oil Type Oil Charge Rated Current Unit Width Unit Height Unit Depth	CFM	2,235
	Sound Pressure	dB(A)	61.5

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Edition Date: 07/2021

Catalog No: 38MARB-30-3-03SB

24V Interface Kit 2nd Generation Ductless Systems

Model: KSAIC0301230 (208-230V)

Submittal Data

Job Data:	l	_ocation:	
Buyer:	Buyer P.O. #:		_ Carrier #:
Unit Number:	Model Number:		
Performance Data Certified By:		Date:	



The 24V INTERFACE KIT 2nd Generation is used to connect:

- A **SINGLE ZONE** Ductless System to a 3rd party single stage conventional thermostat (sold separately) providing AUTO fan speed on the indoor unit.
- A **MULTI-ZONE** Ductless System to a 3rd party single stage conventional thermostat (sold separately) providing AUTO fan speed on the indoor unit.
- A **SINGLE ZONE** Ductless Condensing Unit with an approved Fan Coil/Furnace/Cased Coil and a third party single stage conventional thermostat (sold separately) allowing up to 3 different fan speeds on the indoor unit.

Features

- AUTO Fan speed on Single Zone and Multi-zone on Ductless applications
- Up to 3 Fan speeds on Single Zone Ductless Outdoor matched with Multifamily Fan Coils, Furnace/Cased Coils applications.
- One 24V INTERFACE KIT per indoor head
- Keeps the Inverter Compressor operating as a Variable Speed System
- · Rated for outdoor and indoor mounting
- Dry mode contact for active dehumidification control
- Remote ON/OFF contact
- · Auxiliary Heat control through the thermostat
- Diagnostic code display LEDs
- 208/230V Transformer Built-in

Parts included

- o 24V INTERFACE Control Box
- o Installation manual
- o Wall anchors
- Screws M4X20mm
- •16.4ft. (5m) Return Air Thermistor Assembly required and installed near or on the unit and on the air inlet side

Accessories, Sold Separately

- $\hfill\square$ 115V transformer RCD# 11203103000393, used only on ductless systems with 115V power.
- □ Piping Adaptor Kit RCD# 331831-701, used ONLY on Multifamily applications with the FMA4, FMC and FMU fan coils to facilitate piping installation when removing the TXV kit from the indoor unit

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Catalog No: SUB-KSAIC0301230-01

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Key Features

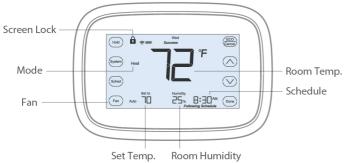
- > Up to 2heat/2cool
- > Humidity sensor
- > ECO mode saving energy
- > 802.11 b/g/n Wi-Fi connection @ 2.4GHz
- → 7-Day programmable with auto changeover → 158x109x26mm(LxWxH)
- > 3 Fan speeds For High Rise Fancoil

- > Keypad lock
- > Pre-cooling/heating
- > Compressor protection
- > 24VAC power (C-wire required)
- > Auxiliary ERV/HRV On/Off control
- > Compatible with gas/oil/electric boiler, furnace, heat pump, air-conditioning, High Rise Fancoil





User Interface

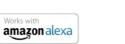


Teminal Block













CLimetec Manufacturing Ltd. 161 Milani Blvd. Woodbridge, Ontario, L4H4M4, Canada Phone: (905)-660-0700

Internal Volume

	Coil Spe	cifications	
	DX Cooling Co	il Model A-CID-1000	
	_	Number of circuits	8
		Number of rows	4
		Fins per inch	12
Drain connection location	Side		
Connections location	Side		
Refrigerant	R410a	Entering Air dry bulb	78 °F
SuperHeat	10.0 °F	Entering Air wet bulb	65 °F
Liquid Temperature	105 °F		
Suction Temperature	42 °F	Leaving air dry bulb	50.8 °F
Refrigerant Pressure Drop	0.8 psi	LWB	50 °F
Refrigerant Mass Flow	600 Lb/H	Total Capacity	41,880 BTU/hr
Internal Volume	174.6 in^3	Sensible Capacity	28,502 BTU/hr
	DX Heating Co	il Model A-CID-1000	
		Number of circuits	8
		Number of rows	4
		Fins per inch	12
Drain connection location	Side		
Connections location	Side		
Refrigerant	R410a	Entering Air dry bulb	78 °F
SuperHeat	°F	Entering Air wet bulb	65 °F
Liquid Temperature	111 °F		
Suction Temperature	180 °F	Leaving air dry bulb	111.8 °F
Refrigerant Pressure Drop	0.8 psi		
Refrigerant Mass Flow	600 Lb/H	Total Capacity	36,504 BTU/hr

174.6 in^3

Outdoor Unit Single Zone Heat Pump Ductless System

Outdoor Model:

38MBRBQ36AA3

Submittal Data

		-	
Job Data:		Location:	
Buyer:	Buyer P.O. #:	Carrier #:	
•		<u> </u>	
Unit Number:		Model Number:	
•			
Pe	rformance Data Certified By:	Date:	



STANDARD FEATURES

Features Outdoor:

- Variable Speed (Inverter) Compressor
- Basepan Heater factory installed
- · Quiet operation
- Aluminum Hydrophilic pre-coated fins
- Piping length 213 ft. (65 m)

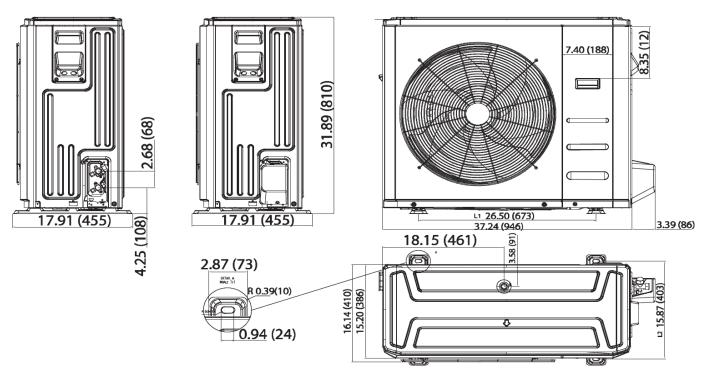
Cooling operating range $-13^{\circ} \sim 122^{\circ}$ F (-25° $\sim 50^{\circ}$ C) Heating operating range $-22^{\circ} \sim 86^{\circ}$ F (-30° $\sim 30^{\circ}$ C)

LIMITED WARRANTY*

- 10 year limited to original purchaser on compressor and parts upon timely registration, otherwise 5 years
- *For residential applications. See warranty for full details.

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 Catalog No: 38MBRB-36-02SB

Construction View







24V Interface Kit 2nd Generation Ductless Systems

Model: KSAIC0301230 (208-230V)

Submittal Data

Job Data:	l	_ocation:	
Buyer:	Buyer P.O. #:		_ Carrier #:
Unit Number:	Model Number:		
Performance Data Certified By:		Date:	



The 24V INTERFACE KIT 2nd Generation is used to connect:

- A **SINGLE ZONE** Ductless System to a 3rd party single stage conventional thermostat (sold separately) providing AUTO fan speed on the indoor unit.
- A **MULTI-ZONE** Ductless System to a 3rd party single stage conventional thermostat (sold separately) providing AUTO fan speed on the indoor unit.
- A **SINGLE ZONE** Ductless Condensing Unit with an approved Fan Coil/Furnace/Cased Coil and a third party single stage conventional thermostat (sold separately) allowing up to 3 different fan speeds on the indoor unit.

Features

- AUTO Fan speed on Single Zone and Multi-zone on Ductless applications
- Up to 3 Fan speeds on Single Zone Ductless Outdoor matched with Multifamily Fan Coils, Furnace/Cased Coils applications.
- One 24V INTERFACE KIT per indoor head
- Keeps the Inverter Compressor operating as a Variable Speed System
- · Rated for outdoor and indoor mounting
- Dry mode contact for active dehumidification control
- Remote ON/OFF contact
- · Auxiliary Heat control through the thermostat
- Diagnostic code display LEDs
- 208/230V Transformer Built-in

Parts included

- o 24V INTERFACE Control Box
- o Installation manual
- o Wall anchors
- Screws M4X20mm
- •16.4ft. (5m) Return Air Thermistor Assembly required and installed near or on the unit and on the air inlet side

Accessories, Sold Separately

- $\hfill\square$ 115V transformer RCD# 11203103000393, used only on ductless systems with 115V power.
- □ Piping Adaptor Kit RCD# 331831-701, used ONLY on Multifamily applications with the FMA4, FMC and FMU fan coils to facilitate piping installation when removing the TXV kit from the indoor unit

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Edition Date: 03/19

Catalog No: SUB-KSAIC0301230-01

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Key Features

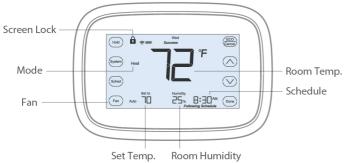
- > Up to 2heat/2cool
- > Humidity sensor
- > ECO mode saving energy
- > 802.11 b/g/n Wi-Fi connection @ 2.4GHz
- → 7-Day programmable with auto changeover → 158x109x26mm(LxWxH)
- > 3 Fan speeds For High Rise Fancoil

- > Keypad lock
- > Pre-cooling/heating
- > Compressor protection
- > 24VAC power (C-wire required)
- > Auxiliary ERV/HRV On/Off control
- > Compatible with gas/oil/electric boiler, furnace, heat pump, air-conditioning, High Rise Fancoil





User Interface

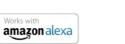


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111.8 °F

49,248 BTU/hr

Liquid Temperature

Suction Temperature

Refrigerant Mass Flow

Internal Volume

Refrigerant Pressure Drop

	Coil Spe	cifications	
	DX Cooling Co	il Model A-CID-1200	
	_	Number of circuits	8
		Number of rows	4
		Fins per inch	12
Drain connection location	Side		
Connections location	Side		
Refrigerant	R410a	Entering Air dry bulb	78 °F
SuperHeat	10.0 °F	Entering Air wet bulb	65 °F
Liquid Temperature	105 °F		
Suction Temperature	42 °F	Leaving air dry bulb	51.5 °F
Refrigerant Pressure Drop	1.0 psi	LWB	50.5 °F
Refrigerant Mass Flow	697 Lb/H	Total Capacity	48,673 BTU/hr
Internal Volume	174.6 in^3	Sensible Capacity	33,274 BTU/hr
	DX Heating Co	il Model A-CID-1200	
	_	Number of circuits	8
		Number of rows	4
		Fins per inch	12
Drain connection location	Side		
Connections location	Side		
Refrigerant	R410a	Entering Air dry bulb	78 °F
SuperHeat	°F	Entering Air wet bulb	65 °F

Leaving air dry bulb

Total Capacity

111 °F

180 °F

1.0 psi

697 Lb/H

174.6 in^3

Outdoor Unit Single Zone Heat Pump Ductless System

Outdoor Model:

38MBRBQ48AA3

Submittal Data

		. –	
Job Data:		Location:	
- -			
Buyer:	Buyer P.O. #:	Carrier #:	
Unit Number:		Model Number:	
·		· _	
Pe	erformance Data Certified By:	Date:	



STANDARD FEATURES

Features Outdoor:

- Variable Speed (Inverter) Compressor
- Basepan Heater factory installed
- · Quiet operation
- Aluminum Hydrophilic pre-coated fins
- Piping length 213 ft. (65 m)

Cooling operating range $-13^{\circ} \sim 122^{\circ}$ F ($-25^{\circ} \sim 50^{\circ}$ C) Heating operating range $-22^{\circ} \sim 86^{\circ}$ F ($-30^{\circ} \sim 30^{\circ}$ C)

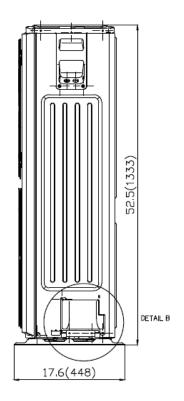
LIMITED WARRANTY*

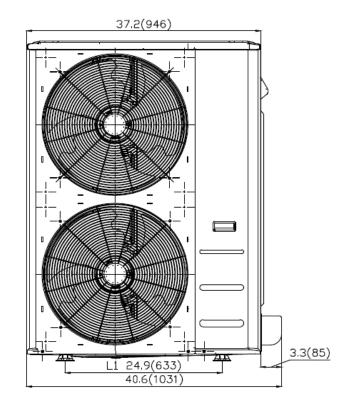
• 10 year limited to original purchaser on compressor and parts upon timely registration, otherwise 5 years

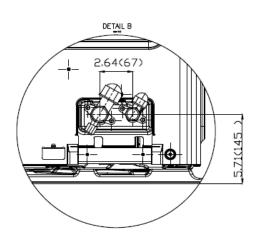
*For residential applications. See warranty for full details.

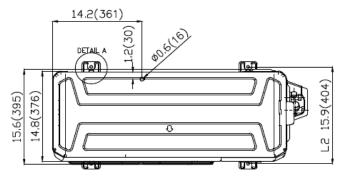
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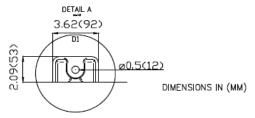
Construction View















24V Interface Kit 2nd Generation Ductless Systems

Model: KSAIC0301230 (208-230V)

Submittal Data

Job Data:	l	_ocation:	
Buyer:	Buyer P.O. #:		_ Carrier #:
Unit Number:	Model Number:		
Performance Data Certified By:		Date:	



The 24V INTERFACE KIT 2nd Generation is used to connect:

- A **SINGLE ZONE** Ductless System to a 3rd party single stage conventional thermostat (sold separately) providing AUTO fan speed on the indoor unit.
- A **MULTI-ZONE** Ductless System to a 3rd party single stage conventional thermostat (sold separately) providing AUTO fan speed on the indoor unit.
- A **SINGLE ZONE** Ductless Condensing Unit with an approved Fan Coil/Furnace/Cased Coil and a third party single stage conventional thermostat (sold separately) allowing up to 3 different fan speeds on the indoor unit.

Features

- AUTO Fan speed on Single Zone and Multi-zone on Ductless applications
- Up to 3 Fan speeds on Single Zone Ductless Outdoor matched with Multifamily Fan Coils, Furnace/Cased Coils applications.
- One 24V INTERFACE KIT per indoor head
- Keeps the Inverter Compressor operating as a Variable Speed System
- · Rated for outdoor and indoor mounting
- Dry mode contact for active dehumidification control
- Remote ON/OFF contact
- · Auxiliary Heat control through the thermostat
- Diagnostic code display LEDs
- 208/230V Transformer Built-in

Parts included

- o 24V INTERFACE Control Box
- o Installation manual
- o Wall anchors
- Screws M4X20mm
- •16.4ft. (5m) Return Air Thermistor Assembly required and installed near or on the unit and on the air inlet side

Accessories, Sold Separately

- $\hfill\square$ 115V transformer RCD# 11203103000393, used only on ductless systems with 115V power.
- □ Piping Adaptor Kit RCD# 331831-701, used ONLY on Multifamily applications with the FMA4, FMC and FMU fan coils to facilitate piping installation when removing the TXV kit from the indoor unit

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ESE Pro SMART THERMOSTAT

Pleasant user experience

Personalize your time schedule

Achieve all day comfort

Improved programming function and visual appearance

Smooth lines and natural curves

Key Features

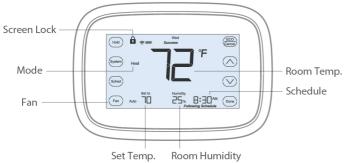
- > Up to 2heat/2cool
- > Humidity sensor
- > ECO mode saving energy
- > 802.11 b/g/n Wi-Fi connection @ 2.4GHz
- → 7-Day programmable with auto changeover → 158x109x26mm(LxWxH)
- > 3 Fan speeds For High Rise Fancoil

- > Keypad lock
- > Pre-cooling/heating
- > Compressor protection
- > 24VAC power (C-wire required)
- > Auxiliary ERV/HRV On/Off control
- > Compatible with gas/oil/electric boiler, furnace, heat pump, air-conditioning, High Rise Fancoil





User Interface

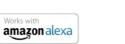


Teminal Block







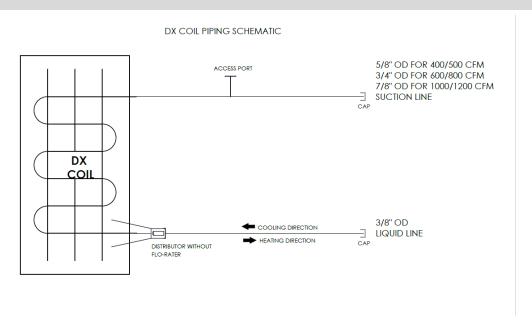






CLimetec Manufacturing Ltd. 161 Milani Blvd. Woodbridge, Ontario, L4H4M4, Canada Phone: (905)-660-0700

DX Cooling Coil Piping Schematic



			Aldes I	Q-VF Serie	s Fan Coi	l Units - To	p Dischar	ge Measur	ed SPL					
						Sour	nd Data	ì						
Fan Coil Model	Date							Sound Level	NC Level					
			Speed		63	125	250	500	1k	2k	4k	8k	(dBA)	at 1.JIII
		Top discharge	Low	Low	52	48	40	31	21	14	11	8	36	30
A-CL-450	-450 July	only (return noise	Low	Medium	47	48	40	34	26	16	13	6	37	30
	only)	Low	High	49	49	41	37	32	21	19	10	39	32	
		Top discharge only (return noise only)	Low	Low	49	48	40	33	26	17	13	10	37	30
A-CL-650	July		Low	Medium	49	49	42	38	30	20	19	7	39	33
	13,2016		Low	High	51	52	48	43	38	29	28	16	45	38
		Top discharge	Low	Low	47	43	38	39	31	20	12	9	38	34
A-CL-	July	only (return noise	Low	Medium	47	44	41	40	34	23	15	10	40	35
1000	21,2016	only)	Low	High	50	57	46	46	41	35	25	15	47	41
		Top discharge	Low	Low	42	43	39	39	32	21	13	9	38	34
A-CL-1200	July	only (return noise	Low	Medium	56	49	42	42	37	27	19	11	43	37
	21,2016	only)	Low	High	51	53	47	47	43	40	29	19	49	43
					-									
	Tool			Q-VF Series	s Fan Coil	Units - To								
Fan Coil	Test Date	Equipment	ERV	Fan		405				lated (Lin)		-	PWLA	
Model	Date	Configuration	Fan Speed	Speed	63	125	250	500	1k	2k	4k	8k		
			Low	1		F.4	4.5	20	20	04	40	4	40	

Low

Medium

Medium

Medium

Medium

High

Low

High

High

Low

High

Low

Top discharge

Top discharge

only (return noise

Top discharge only (return noise

Top discharge only (return noise

only)

only (return noise

A-CL-450

A-CL-650

A-CL-

IA-CL- July 13,2016

July 13,2016

July 21,2016

July 21,2016

Watts/CFM

Fan Power Consumption

Fans: one supply air fan, two ERVs fans

ESP (inch) 0.2" Voltage 115/1/60

Tag Model			Supply Air Fan Speed													
	ERVs Fan Speed	Low				Medium				High				Supply Air ER		
	Continuous	CFM	Watts	Amps	Watts/CFM	CFM	Watts	Amps	Watts/CFM	CFM	Watts	Amps	Watts/CFM	Fan Motor	Motor np	
FCU-1	CI/CIS -350	Low (50 CFM)	145	41	0.84	0.28	240	60	1.10	0.25	325	69	1.16	0.21	1/4 ECM	1/10 ECM
FCU-2	CI/CIS -450	Low (50 CFM)	150	42	0.83	0.28	298	60	1.07	0.20	415	85	1.38	0.20	1/4 ECM	1/10 ECM
FCU-3	CI/CIS -650	Low (50 CFM)	253	50	0.94	0.20	383	70	1.20	0.18	615	121	1.95	0.20	1/4 ECM	1/10 ECM
FCU-4	CI/CIS -800	Low (50 CFM)	306	55	0.99	0.18	485	84	1.36	0.17	790	179	2.55	0.23	1/4 ECM	1/10 ECM
FCU-5	CI/CIS -1000	Low (50 CFM)	516	102	1.38	0.20	696	144	1.99	0.21	980	285	3.86	0.29	1/3 ECM	1/10 ECM
FCU-6	CI/CIS -1200	Low (50 CFM)	612	123	1.71	0.20	790	183	2.46	0.23	1102	373	5.06	0.34	1/3 ECM	1/10 ECM

Limited Warranty Certificate

Period: Two years from the last unit shipped.

Aldes Inc. warrants the equipment stated above from factory defects in material or workmanship under normal use and proper maintenance schedule. The warranty covers only the products described as stated above.

This warranty does not cover any of the below items where applicable:

- Conditions, malfunction or damage not resulting from defect in material or workmanship.
- Any coil or riser freeze up resulting from open doors or windows, malfunction of the unit, damage to the unit, malfunction of building boiler, chiller systems.
- Failure, damage or repairs due to improper shipping and handling, faulty installation, misapplication, abuse, improper servicing.
- Damages resulting from accident, abuse, alteration, or acts of God (tampering, altering, defacing or removing the product labels will serve to void this warranty).
- Failure to start or damages due to voltage conditions, blown fuses, open circuit breakers, or damages due to the inadequacy or interruption of electrical service, internet service provider or mobile device carrier service or your home network.
- Failure or damage due to floods, winds, fires, lightning, accidents, corrosive environments (rust, etc.) or other conditions beyond the control of Aldes, Inc.
- Use of parts not supplied or designated by Aldes Inc., or damages resulting from their use.
- Any special, indirect or consequential property or commercial damage of any nature whatsoever.
- Any sound or power consumption issues due to motor programmed for Constant Airflow.
- Any claims about performance of fan coils.
- Any product purchased on the Internet
- Time and Labor on service calls that is not warranty.

Warning

Any unauthorized work done to the unit will void the Warranty. All authorization must be in writing.

Disclaimer

In no event shall Aldes Inc. be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of our products.