



Reviewed for Code Compliance  
Permitting and Inspections Department  
Approved with Conditions  
06/19/2018

***AirTemp, Inc.***  
**MECHANICAL CONTRACTORS**  
**20 Thomas Drive**  
**Westbrook, Maine 04092**  
**207-774-2300**  
**207-874-2383 FAX**

***A COMFORT SYSTEMS USA COMPANY***  
***QUALITY PEOPLE – BUILDING SOLUTIONS***

**SUBMITTAL**

**JOB: CASCO BAY HIGH SCHOOL**  
**DATE: 5/23/18**  
**ENGINEER: ANTHONY B. DAVIS**  
**MECHANICAL CONTRACTOR: AIRTEMP INC.**  
**AIRTEMP JOB NUMBER: 254**

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**AIRTEMP IS PLEASED TO SUBMIT THE FOLLOWING ITEMS FOR APPROVAL:**

**ENERGY RECOVERY VENTILATOR**

**PLEASE RETURN REVIEWED SUBMITTAL FILE TO US:**



# Submittal Transmittal



Reviewed for Code Compliance  
 Permitting and Inspections Department  
 Approved with Conditions  
 06/19/2018

Submittal #	1-001
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To:	Airtemp
From:	Homans Associates 250 Ballardvale Street Wilmington, MA 01887

Date:	5/18/2018
Transmitted By:	Jared DeSantis
Copied To:	

Project	Casco Bay High School Expansion	Architect	PDT Architects
Order #		Engineer	Allied Engineering
Purchaser	Geoff Gergler		

<b>Submittal Name:</b>	<b>Renewaire Submittals</b>
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Submitted For :	Via:	The Following:
<input checked="" type="checkbox"/> Approval/Action	<input type="checkbox"/> Overnight Delivery	<input type="checkbox"/> Drawings
<input type="checkbox"/> Information	<input type="checkbox"/> Mail	<input type="checkbox"/> Specifications
<input type="checkbox"/> Distribution	<input checked="" type="checkbox"/> E-Mail	<input type="checkbox"/> Digital Files
<input type="checkbox"/> Record	<input type="checkbox"/> Courier	<input checked="" type="checkbox"/> Submittals
<input type="checkbox"/> Revised/Resubmit	<input type="checkbox"/> Fax	<input type="checkbox"/> O & M Manuals
	<input type="checkbox"/> Other	<input type="checkbox"/> Other

**Includes the following:**

Unit Tag #	Model	Description	Format	Item Action	QTY:
ERU-1	HE1XINH	Renewaire ERV	PDF	For Approval	1
ERU-2	EV200	Renewaire ERV	PDF	For Approval	1

**ERU-1**



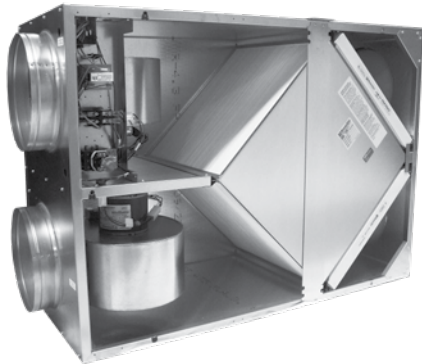
**Energy Recovery Ventilator**  
**EC Motor Option**



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**06/19/2018**

**INDOOR UNIT**



Download specification at:  
[renewaire.com/specifications](http://renewaire.com/specifications)

**SPECIFICATIONS**

**Ventilation Type:**  
 Static plate, heat and humidity transfer

**Typical Airflow Range:** 250-1,100 CFM

**AHRI 1060 Certified Core:** One L125-G5

**Standard Features:**  
 Non-fused disconnect  
 24 VAC transformer/relay package

**Filters:**  
 Total qty. 2, MERV 8: 20" x 20" x 2"

**Unit Dimensions & Weight:**  
 54 3/4" L x 23 3/4" W x 35 3/4" H  
 207-278 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**  
 63" L x 30" W x 56" H  
 325 lbs.  
 Accessories box shipped loose on top of unit.

**Motor(s):**  
 Qty. 2, 0.5 HP ea., Direct drive EC blower/  
 motor packages

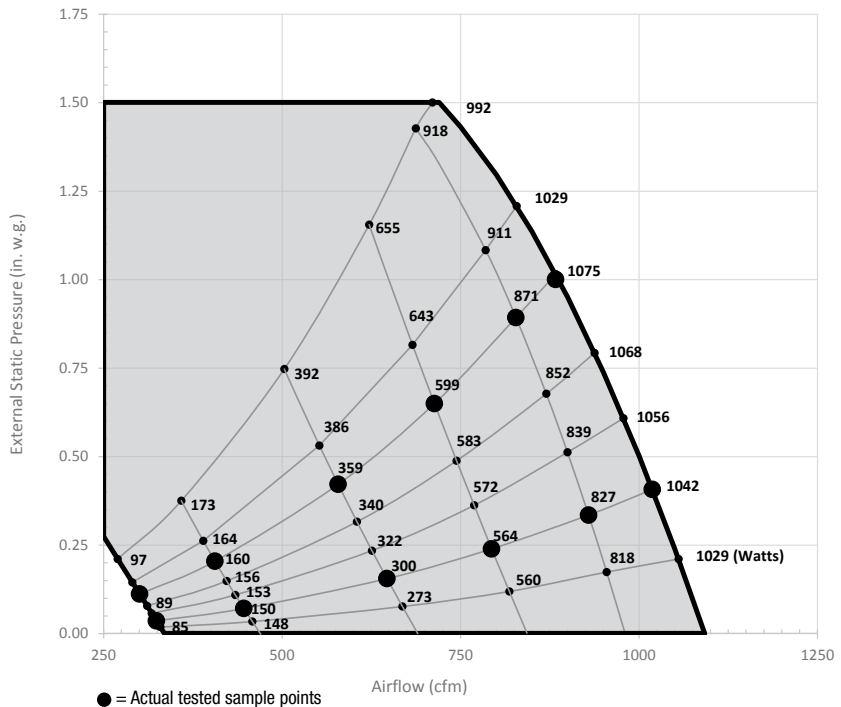
**Options:**  
 Integrated programmable controls  
 Fused disconnect  
 Double wall construction  
 Low-leakage motorized isolation dampers - OA, RA  
 or both airstreams  
 Qty. 2, Factory mounted filter alarms  
 Exterior paint - white, custom colors  
 Bypass economizer (see bypass DIM drawing) -  
 dry-bulb temperature controls (standard),  
 enthalpy controls (option)

**Accessories:**  
 Filters - MERV 13, 2" (shipped loose)  
 Backdraft damper 12"  
 Motorized isolation damper - both airstreams  
 Wall cap 12" - galvanized, paintable galvanneal  
 Potentiometer speed control - remote installed  
 Digital time clock - wall mount (TC7D-W),  
 in exterior enclosure (TC7D-E)  
 Motion occupancy control - ceiling mount (MC-C),  
 wall mount (MC-W)  
 Carbon dioxide control - wall mount (CO2-W),  
 duct mount (CO2-D)  
 Electric duct heater - EK series (1-60 kW)  
 Indirect gas-fired duct furnace - GH series  
 (50-400 MBH), installed downstream of any fans

**EC MOTOR OPTION OPERATING RANGE**

HE1XINH EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
324	0.04	86
446	0.07	150
647	0.15	300
794	0.24	564
929	0.33	827
1019	0.41	1042
300	0.11	91
406	0.20	160
579	0.42	359
713	0.65	599
828	0.89	871
883	1.00	1075

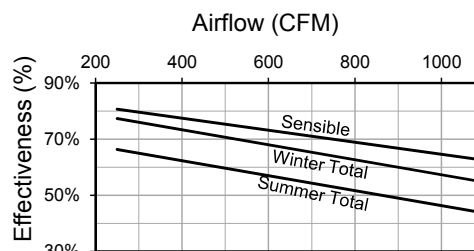
**Note:** Watts is for the entire unit.  
**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.



**ELECTRICAL DATA**

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.5	120	60	Single	8.1	18.2	25
0.5	208-230	60	Single	4.8	10.8	15

**CORE PERFORMANCE**

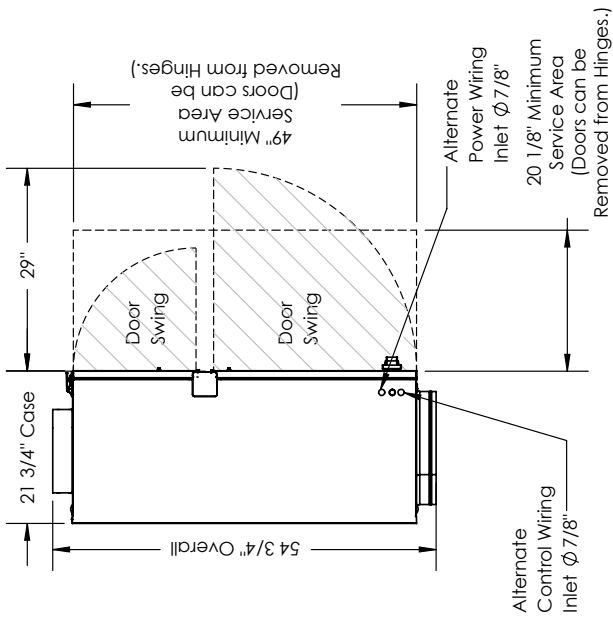


At AHRI 1060 standard conditions. See all AHRI certified ratings at [www.ahrinet.org](http://www.ahrinet.org).

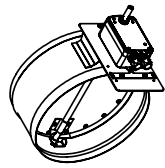
Specifications may be subject to change without notice.



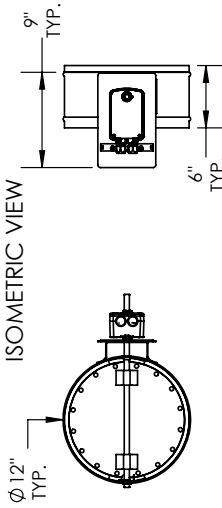
# HE1XINH Energy Recovery Ventilator Standard or EC Motor Option



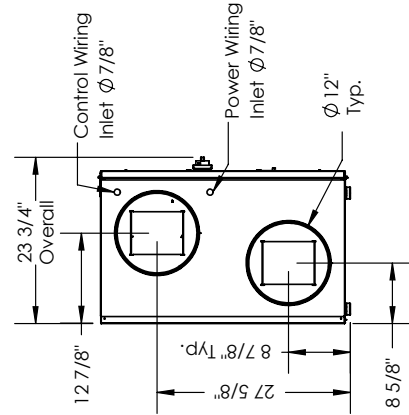
TOP VIEW



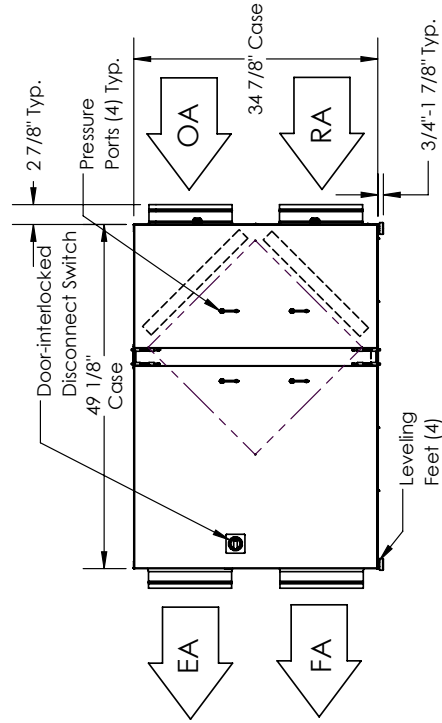
ISOMETRIC VIEW



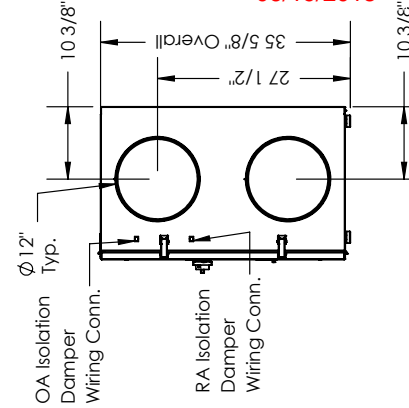
FRONT VIEW  
RIGHT VIEW  
(OA/RA) DAMPER OPTION (QTY:2)  
(SHIPPED LOOSE)  
SCALE 1:16



LEFT VIEW



FRONT VIEW



RIGHT VIEW

**ABBREVIATIONS**  
EA: Exhaust Air to Outside  
OA: Outside Air Intake  
RA: Room Air to be Exhausted  
FA: Fresh Air to Inside

**INSTALLATION ORIENTATION**  
Unit may be installed in any orientation.

**NOTE**  
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.  
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.  
3. DAMPERS SHIPPED LOOSE. FIELD INSTALLATION REQUIRED.

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**AIRFLOW CONFIGURATION**  
Available as shown in dimension drawing.

**UNIT MOUNTING & APPLICATION**  
Can be mounted in any orientation. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.



ERU-2

# EV 300

## Energy Recovery Ventilator Standard



**INDOOR UNIT**



Download specification at:  
[renewaire.com/specifications](http://renewaire.com/specifications)

**SPECIFICATIONS**

**Ventilation Type:**  
Static plate, heat and humidity transfer

**Typical Airflow Range:** 150-300 CFM

**Standard Features:**  
Painted cabinet  
Line-cord power supply  
Low-voltage circuit for controls  
Unit may be mounted in any orientation

**Controls:**  
Onboard 24 VAC transformer/relay package with switched dry contacts

**Filters:**  
Total qty. 2, MERV 8, spun-polyester media:  
10 1/2" x 21 3/4" x 1"

**Unit Dimensions & Weight:**  
33 3/4" L x 24" W x 20" H  
72 lbs.

**Max. Shipping Dimensions & Weight (on pallet):**  
34" L x 44" W x 34" H  
115 lbs.

**Motor(s):**  
Qty. 1, Double-shaft standard motor

**Accessories:**  
Backdraft damper 8"  
Wall cap 8" - taupe plastic, galvanized, paintable galvanneal  
Louver with 8" round duct connection - 12" (W) x 8" (H)  
Percentage timer control (PTL)  
Push-button point-of-use controls (PBL), PTL req'd.  
Percentage timer control with furnace interlock (FM)  
Electric duct heater - EK series (1-60 kW), for commercial use only



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**Note:** Indirect Gas-Fired Duct Furnace is not available on the EV300.

**ELECTRICAL DATA**

HP	Volts	HZ	Phase	Input Watts	FLA
0.2	120	60	Single	315 @ 297 CFM	3.3

**UNIT PERFORMANCE**

Airflow CFM	ESP in H <sub>2</sub> O
170	1.0
191	0.9
215	0.8
256	0.7
277	0.6
295	0.5
311	0.4

**CORE PERFORMANCE**

Temp EFF%	Total EFF% Winter/Summer*
78	73/59
77	71/57
75	69/55
73	66/51
71	65/49
70	63/47
69	62/46

\* See HVI certification ratings on page 164 of RenewAire's Full Line Volume XVIII Catalog.

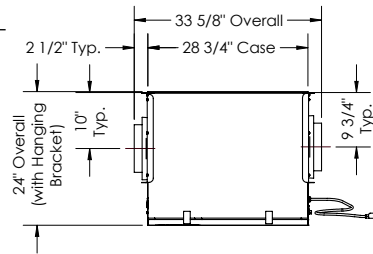
**UNIT DIMENSIONS**



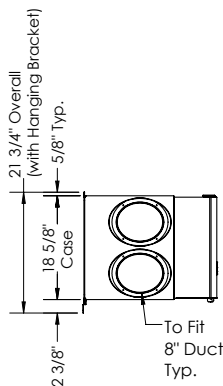
**AIRFLOW CONFIGURATION**  
Available as shown in dimension drawing.



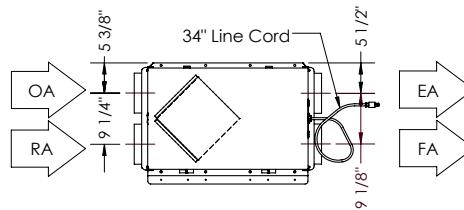
**UNIT MOUNTING & APPLICATION**  
Can be mounted in any orientation. RA/EA airstream can be switched with OA/FA airstream.



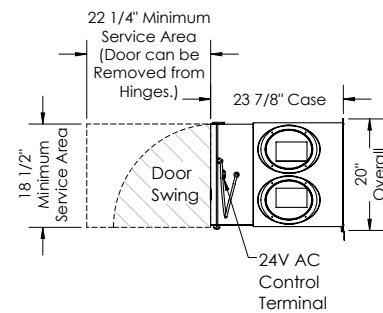
TOP VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

**ABBREVIATIONS**  
EA: Exhaust Air to outside  
OA: Outside Air intake  
RA: Room Air to be exhausted  
FA: Fresh Air to inside

**INSTALLATION ORIENTATION**  
Unit may be installed in any orientation.

**NOTE**  
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Specifications may be subject to change without notice.





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**SUBMITTAL**

**JOB: CASCO BAY HIGH SCHOOL**  
**DATE: 5/23/18**  
**ENGINEER: ANTHONY B. DAVIS**  
**MECHANICAL CONTRACTOR: AIRTEMP INC.**  
**AIRTEMP JOB NUMBER: 254**

\*\*\*\*\*

**AIRTEMP IS PLEASED TO SUBMIT THE FOLLOWING ITEMS FOR APPROVAL:**

**HVAC SPLIT SYSTEM**

**PLEASE RETURN 3 REVIEWED SUBMITTAL FILE TO US:**



# Submittal Transmittal



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Submittal #	1-001
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To:	Airtemp
From:	Homans Associates 250 Ballardvale Street Wilmington, MA 01887

Date:	5/18/2018
Transmitted By:	Nick St.Ours
Copied To:	

Project	Casco Bay High School Expansion	Architect	PDT Architects
Order #		Engineer	Allied Engineering
Purchaser	Geoff Gergler		

<b>Submittal Name:</b>	<b>Mitsubishi Submittals</b>
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Submitted For :	Via:	The Following:
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<input type="checkbox"/> Revised/Resubmit	<input type="checkbox"/> Fax	<input type="checkbox"/> O & M Manuals
	<input type="checkbox"/> Other	<input type="checkbox"/> Other

**Includes the following:**

Unit Tag #	Model	Description	Format	Item Action	QTY:
CU-1	MXZ-3C24NAHZ2-U1	MXZ Hyper Heat Outdoor Unit	PDF	For Approval	1
HP-1/HP-2	SLZ-KA12NA	Ceiling Cassette	PDF	For Approval	2
HP-1/HP-2	PAR-33MAA-J	Wired Programmable Controller	PDF	For Approval	2
HP-1/HP-2	MAC-333IF-E	M-Net Control Adapter	PDF	For Approval	2
CU-1	QSMS2401	24" Quick Sling Stand	PDF	For Approval	1

Job Name: Casco Bay High School Expansion

System Reference: CU-1

Date:

Specified outdoor unit MXZ-2C20NAHZ does not qualify for Efficiency Maine rebate. Substituted MXZ-3C24NAHZ to meet rebate qualifications.



Outdoor Unit: MXZ-3C24NAHZ2

### ACCESSORIES

- 3/8" x 1/2" Port Adapter (MAC-A454JP-E)
- 1/2" x 3/8" Port Adapter (MAC-A455JP-E)
- 1/2" x 5/8" Port Adapter (MAC-A456JP-E)
- M-NET Adapter (PAC-IF01MNT-E)
- Airflow Guide (PAC-SH96SG-E)



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(For data on specific indoor units, see the MXZ-C Technical and Service Manual.)

Specifications			Model Name
Unit Type			MXZ-3C24NAHZ2
<b>Cooling*</b> (Non-ducted / Ducted)	Rated Capacity	Btu/h	22,000 / 23,600
	Capacity Range	Btu/h	6,000 - 23,600
	Rated Total Input	W	1,630 / 2,360
<b>Heating at 47°F*</b> (Non-ducted / Ducted)	Rated Capacity	Btu/h	25,000 / 24,600
	Capacity Range	Btu/h	7,200 - 30,600
	Rated Total Input	W	1,725 / 1,871
<b>Heating at 17°F*</b> (Non-ducted/Ducted)	Rated Capacity	Btu/h	14,000 / 14,000
	Maximum Capacity	Btu/h	25,000 / 24,600
	Rated Total Input	W	1,622 / 1,635
<b>Heating at 5°F*</b>	Maximum Capacity	Btu/h	25,000
Energy Star® (ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.)			Yes
<b>Electrical Requirements</b>	Power Supply	Voltage, Phase, Hertz	208 / 230V, 1-Phase, 60 Hz
	Recommended Fuse/Breaker Size	A	40
	MCA	A	30.5
<b>Voltage</b>	Indoor - Outdoor S1-S2	V	AC 208 / 230
	Indoor - Outdoor S2-S3	V	DC ±24
<b>Compressor</b>			DC INVERTER-driven Twin Rotary
<b>Fan Motor (ECM)</b>		F.L.A.	2.43
<b>Sound Pressure Level</b> (Non-ducted/Ducted)	Cooling		54
	Heating		58
<b>External Dimensions (H x W x D)</b>		In / mm	41-9/32 x 37-13/32 x 13 1048 x 950 x 330
<b>Net Weight</b>		Lbs / kg	189 / 86
<b>External Finish</b>			Munsell No. 3Y 7.8/11
<b>Refrigerant Pipe Size O.D. — Eight Ports</b>	Liquid (High Pressure)	In / mm	1/4 / 6.35
	Gas (Low Pressure)		A:1/2 / 12.7 ; B,C: 3/8 / 9.52
<b>Max. Refrigerant Line Length</b>		Ft / m	230 / 70
<b>Max. Piping Length for Each Indoor Unit</b>		Ft / m	82 / 25
<b>Max. Refrigerant Pipe Height Difference</b>	If IDU is Above ODU	Ft / m	49 / 15
	If IDU is Below ODU	Ft / m	49 / 15
<b>Connection Method</b>			Flared/Flared
<b>Refrigerant</b>			R410A

\* Rating Conditions per AHRI Standard:

Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB

Cooling | Outdoor: 95° F (35° C) DB / W.B. 23.9° C (75° F)

Heating at 47°F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB

Heating at 47°F | Outdoor: 47° F (8° C) DB / 43° F (6° C) WB

Heating at 17° F | Indoor: 70° F (21° C) DB

Heating at 17° F | Outdoor: 17° F (-8° C) DB / 15° F (-9° C) WB



# SPECIFICATIONS: MXZ-3C24NAHZ2

**OPERATING RANGE:**

	Outdoor
Cooling	D.B. 14 to 115° F [ D.B. -10 to 46° C]*1
Heating	W.B. -13 to 65° F [W.B. -25 to 18° C ]

\*1. D.B. 5 to 115° F [ D.B. -15 to 46° C ], when an optional Air Outlet Guide is installed.

**ENERGY EFFICIENCIES:**

Indoor Unit Type	SEER	EER	HSPF	COP @ 47°F	COP @ 17°F
<b>Non-ducted (06 + 06 + 09)</b>	19.0	13.5	10.0	4.25	2.53
<b>Ducted and Non-ducted</b>	17.3	11.75	9.5	4.03	2.52
<b>Ducted (09 + 09 + 09)</b>	15.5	10.0	9.0	3.80	2.51



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**NOTES:**

- Minimum of two Indoor Units must be connected to the MXZ-3C24NAHZ2.
- Minimum installed capacity cannot be less than 12,000 Btu/h.
- Total connected capacity must not exceed 130% of outdoor unit capacity.
- System can operate with only one Indoor Unit turned on.
- Information provided at 208/230V.
- For Reference:
  - MXZ-C Technical & Service Manual for detailed specifications and additional information per Indoor Unit Combination.
  - MXZ Series Multi-Zone Indoor/Outdoor Combination Table for allowed unit combinations.

**MVZ CONNECTION RULES:**

- Only 1 MVZ may be used on any system.
- When an MVZ is connected, total connected capacity must be 100% or less.
- When an MVZ is connected, no P-Series indoor units can be used (PCA, PLA, or PEAD).

Notes:



# MXZ-3C24NAHZ2 OPERATIONAL PERFORMANCE

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**NON-DUCTED:**

# of indoor unit	Total Nominal Capacity (x1000 Btu/h)	Total Indoor Unit Capacity (Btu/h)	Operational Performance for Indoor Unit Combinations (Unit A + Unit B + Unit C)	Cooling Capacity Range (Btu/h)		
				Heating Capacity Range (Btu/h)		
				Unit A	Unit B	Unit C
1	6	6,000	6	6,000	-	-
		7,400		7,400	-	-
1	9	9,000	9	9,000	-	-
		11,000		11,000	-	-
1	12	12,000	12	12,000	-	-
		14,400		14,400	-	-
1	15	14,000	15	14,000	-	-
		18,000		18,000	-	-
1	18	17,200	18	17,200	-	-
		21,600		21,600	-	-
2	12	12,000	6 + 6	6,000	6,000	-
		14,800		7,400	7,400	-
2	15	15,000	6 + 9	6,000	9,000	-
		18,400		7,400	11,000	-
2	18	18,000	6 + 12	6,000	12,000	-
		22,000		7,500	14,500	-
2	18	18,000	9 + 9	9,000	9,000	-
		22,000		11,000	11,000	-
2	21	20,000	6 + 15	6,000	14,000	-
		22,000		6,400	15,600	-
2	21	20,000	9 + 12	8,600	11,400	-
		22,000		9,500	12,500	-
2	24	21,800	6 + 18	5,600	16,200	-
		22,000		5,600	16,400	-
2	24	21,800	9 + 15	8,500	13,300	-
		22,000		8,300	13,700	-
2	24	21,800	12 + 12	10,900	10,900	-
		22,000		11,000	11,000	-
2	27	21,800	9 + 18	7,500	14,300	-
		22,000		7,400	14,600	-
2	27	21,800	12 + 15	10,100	11,700	-
		22,000		9,800	12,200	-
3	18	18,000	6 + 6 + 6	6,000	6,000	6,000
		22,200		7,400	7,400	7,400
3	21	18,000	6 + 6 + 9	5,100	5,100	7,700
		24,800		7,100	7,100	10,600
3	24	22,000	6 + 6 + 12	5,500	5,500	11,000
		25,000		6,300	6,300	12,300
3	24	22,000	6 + 9 + 9	5,500	8,300	8,300
		25,000		6,300	9,400	9,400
3	27	24,000	6 + 6 + 15	5,500	5,500	12,900
		25,000		5,600	5,600	13,700
3	27	24,000	6 + 9 + 12	5,300	8,000	10,700
		25,000		5,600	8,400	11,000
3	27	24,000	9 + 9 + 9	8,000	8,000	8,000
		25,000		8,300	8,300	8,300



# MXZ-3C24NAHZ2 OPERATIONAL PERFORMANCE, contd.

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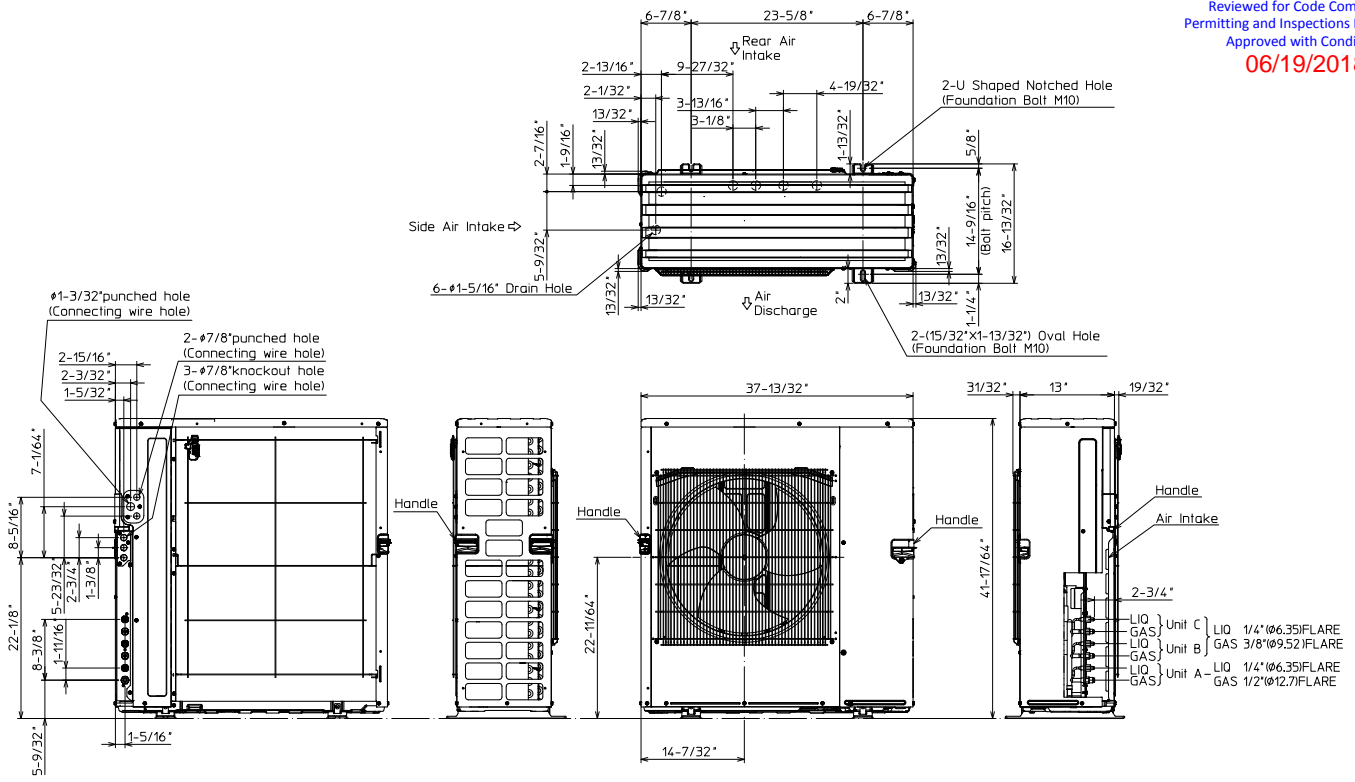
**DUCTED:**

# of indoor unit	Total Nominal Capacity (x1000 Btu/h)	Total Indoor Unit Capacity (Btu/h)	Operational Performance for Indoor Unit Combinations (Unit A + Unit B + Unit C)	Cooling Capacity Range (Btu/h)		
				Heating Capacity Range (Btu/h)		
				Unit A	Unit B	Unit C
1	9	9,000	9	9,000	-	-
		10,900		10,900	-	-
1	12	12,000	12	12,000	-	-
		13,600		13,600	-	-
1	15	15,000	15	15,000	-	-
		18,000		18,000	-	-
1	18	17,200	18	17,200	-	-
		21,600		21,600	-	-
2	18	18,000	9 + 9	9,000	9,000	-
		21,800		10,900	10,900	-
2	21	21,000	9 + 12	9,000	12,000	-
		21,800		9,700	12,100	-
2	24	21,800	9 + 15	8,200	13,600	-
		21,800		8,200	13,600	-
2	24	21,800	12 + 12	10,900	10,900	-
		21,800		10,900	10,900	-
2	27	21,800	9 + 18	7,500	14,300	-
		21,800		7,300	14,500	-
2	27	21,800	12 + 15	9,700	12,100	-
		21,800		9,400	12,400	-
3	27	23,600	9 + 9 + 9	7,900	7,900	7,900
		24,600		8,200	8,200	8,200

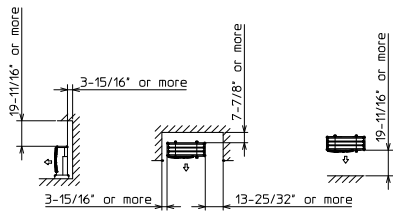
# DIMENSIONS: MXZ-3C24NAHZ2



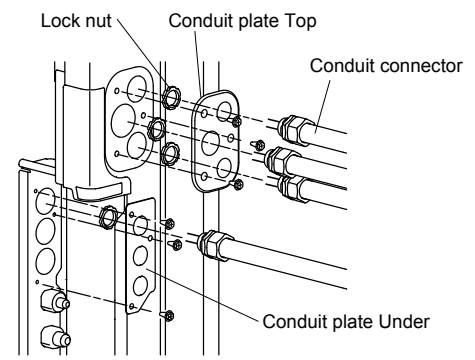
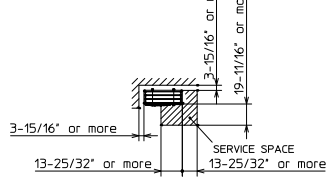
Unit: inch (mm)  
 Reviewed for Code Compliance  
 Permitting and Inspections Department  
 Approved with Conditions  
**06/19/2018**



### 1.FREE SPACE



### 2.SERVICE SPACE



COOLING & HEATING

1340 Satellite Boulevard, Suwanee, GA 30024  
 Toll Free: 800-433-4822 www.mehvac.com



Job Name: Casco Bay High School Expansion

System Reference: CU-1

Date:



Reviewed for Code Compliance  
Permitting and Inspections Department  
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**06/19/2018**



SLZ-KA12NA

### GENERAL FEATURES

- Four-way 2'x2' ceiling-cassette indoor unit for ceiling recessed applications
- Built-in drain mechanism for condensate removal; lifts to 19-11/16"
- Wide air-flow pattern for better air distribution
- Design features ventilation air intake knockout
- Long-life air filter included with indoor unit
- Indoor unit powered from outdoor unit using A-Control
- Choice of fan speed: Low, Medium, High
- Automatic restart following a power outage
- Limited warranty: five years parts and seven years compressors

### ACCESSORIES

#### Indoor Unit

- Grille (SLP-15AAUW; required - shipped with unit)

#### Controller Options

- Wireless Controller (MHK1)
- Wired Remote Controller (PAR-32MAA-J)
- Wireless Interface for kumo cloud™ (PAC-WHS01WF-E)
- Thermostat Interface (PAC-US444CN-1)
- Hand-held Wireless Remote Controller (PAR-FL32MA; req.PAR-FA32MA-E)
- Wireless Signal Receiver Module PAR-FA32MA (for PAR-FL32MA-E)

### SPECIFICATIONS

**Cooling Capacity\*** ..... 11,100 Btu/h  
**Heating Capacity at 47°F\*** ..... 13,600 Btu/h

#### \* Rating Conditions per AHRI Standard

Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB  
 Cooling | Outdoor: 95° F (35° C) DB / 75° F (24° C) WB  
 Heating at 47° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB  
 Heating at 47° F | Outdoor: 47° F (8° C) DB / 43° F (6° C) WB

(For data on specific indoor units [all ducted, all non-ducted, and both ducted and non-ducted] combinations, see the MXZ Technical and Service Manual.)

Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

#### Electrical Requirements

Power Supply ..... 208 / 230V, 1-Phase, 60 Hz  
 MCA ..... 1 A

#### Voltage

Indoor - Outdoor S1-S2 ..... AC 208 / 230V  
 Indoor - Outdoor S2-S3 ..... DC ±24V

Fan Motor (ECM) ..... 0.28 F.L.A.

Airflow (Lo - Med - Hi) ..... 280 - 320 - 390 Dry CFM  
 250 - 290 - 350 Wet CFM

Air Filter ..... Polypropylene Honeycomb

Sound Pressure Level (Lo - Med - Hi) ..... .30 - 34 - 39 dB(A)

DIMENSIONS	UNIT INCHES / MM	GRILLE INCHES / MM
W	22-7/16 / 570	25-5/8 / 650
D	22-7/16 / 570	25-5/8 / 650
H	9-1/4 / 235	13/16 / 20

#### Weight (Unit/Grille)

Lbs..... 36 / 7  
 kg..... 16.5 / 3

External Finish (Unit/Grille) ..... Galvanized-steel Sheets /  
 Munsell 6.4Y 8.9 / 0.4

Field Drainpipe Size O.D..... 1-1/4" / 32 mm

Refrigerant Type ..... R410A

Refrigerant Pipe Size O.D.

Gas Side ..... 3/8" / 9.52 mm  
 Liquid Side..... 1/4" / 6.35 mm

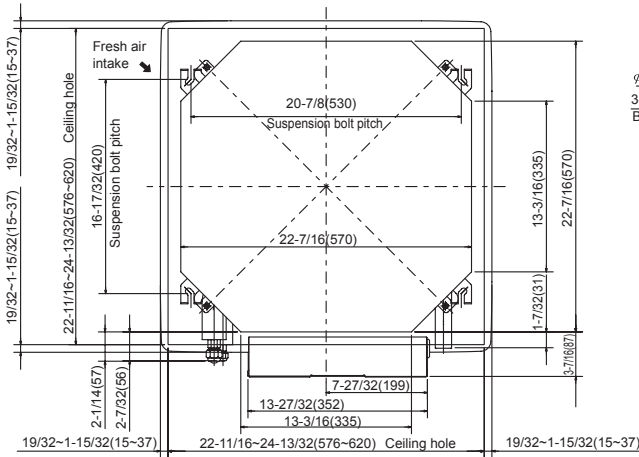
Connection Method ..... Flared

# DIMENSIONS: SLZ-KA12NA

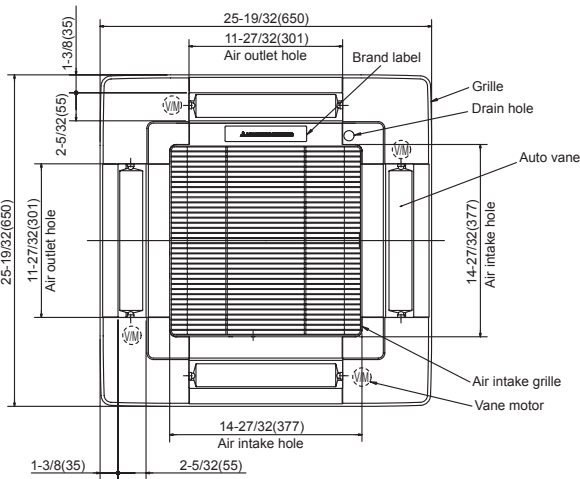
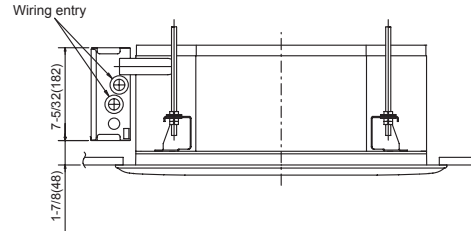
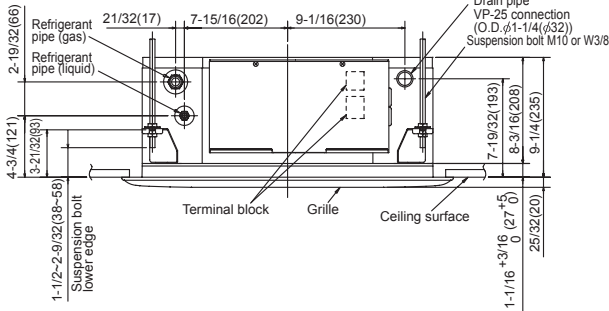
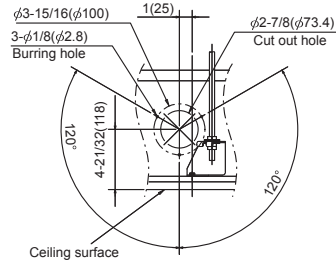


Unit : inch (mm)

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**06/19/2018**



### Detail drawing of fresh air intake



Models	Refrigerant pipe (liquid)	Refrigerant pipe (gas)
SLZ-KA09NA	1/4 inch (φ 6.35mm) flared connection	3/8 inch (φ 9.52mm) flared connection
SLZ-KA12NA	1/4 inch (φ 6.35mm) flared connection	3/8 inch (φ 9.52mm) flared connection
SLZ-KA15NA	1/4 inch (φ 6.35mm) flared connection	1/2 inch (φ 12.7mm) flared connection



COOLING & HEATING

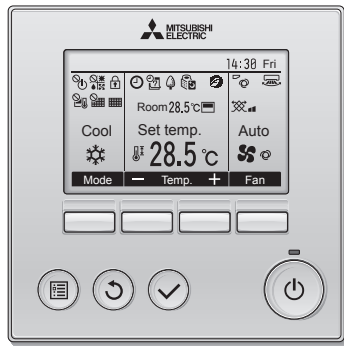
1340 Satellite Boulevard, Suwanee, GA 30024  
Toll Free: 800-433-4822 www.mehvac.com



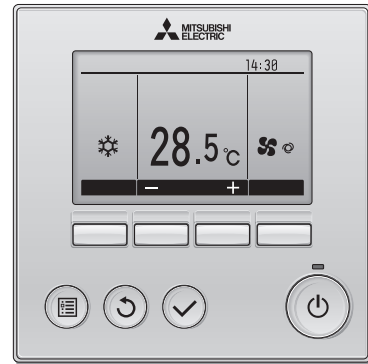
Job Name: Casco Bay High School Expansion

System Reference: HP-1/HP-2

Date:



Full View



Basic View

**CAPABILITIES**

- Basic Operations
  - On/Off
  - Operation Mode: Cool, Dry, Fan, Heat, Auto (Dual or Single set point)
  - Set Temperature
  - Fan Speed
  - Daylight Savings Time (DST)
- Vane setting: Auto, Step 1-5, Swing
- Louver: Off, Swing On
- Vent. (Lossnay): Off, Low, High
  - Manual vane angle: No Setting, Step 1-5, Draft reduction, All outlet
    - Draft reduction mode keeps the vane angle more horizontal than the angle of Step 1
- Restriction
  - Set Temperature range limit
  - Operation lock: On/Off, Mode, Set Temp, Vane
- High power
  - Operate at higher-than-normal capacity to bring room to set temperature quickly for up to 30 minutes
- No Occupancy Auto-OFF
  - 3D i-See sensor required
- On/Off timer
  - Set On Time in 5-minute increments
  - Set Off Time in 5-minute increments
  - Repeat daily
  - Home screen display icon
- Auto-Off timer
  - Automatically turns unit off after preset time
  - Time range of 30 to 240 minutes in 10-minute increments
  - Home screen display icon
- Weekly timer
  - Set each day Monday through Sunday
  - 1 to 4 time periods per day in 5-minute increments
  - Set Mode: On/Off/Auto (Dual set point)
  - On/Off/Auto
  - Set Temperature
- Outdoor Unit silent mode
  - Schedulable: Mon, Tue, Wed, Thu, Fri, Sat, Sun
  - Start/Stop times in 5-minute increments
  - Silent Levels: Normal, Middle, Quiet
- Energy saving features:
  - Automatic return to preset temperature setpoint if set point is changed from the remote controller after a preset time range
    - Cool preset temp: Cool, Dry, Auto-Cool
    - Heat preset temp: Heat, Auto-Heat
    - Range of 30 to 120 minutes in 10-minute increments
  - Energy-saving Operation Schedule
    - Operation schedule
    - Four daily patterns with time periods in 5-minute increments and energy-saving rate 0% to 90%
    - 7 day programming
- Night setback
  - Starts Heat/Cool operation when room temperature exceeds preset temperature range
  - Adjustable time range in 5-minute increments
- Main display
  - Full: Shows all icons and values
  - Basic: Limited to Mode, Set Temp., Fan, Time & Day
- Backlight Display
- Adjustable Contrast Level
  - Language: English, French, Spanish, Italian, Portuguese, Greek, Turkish, Swedish
- CITYMULTI® Function setting
- Filter maintenance notification
- Error code notification

\*(All Capabilities are dependent on the model connected)

# PAR-33MAA-J - SPECIFICATIONS AND DIMENSIONS



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Permitting and Inspections Department  
Approved with Conditions  
**06/19/2018**

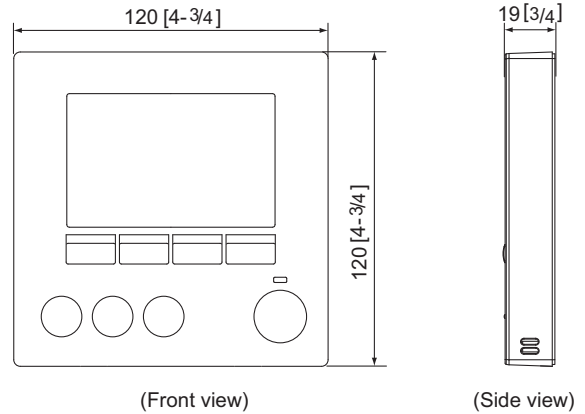
## SPECIFICATIONS

Product size (W x H x D)	In. (mm)	4 3/4 x 4 3/4 x 3/4 (120 x 120 x 19)
Net weight	Lbs. (kg)	9/16 (0.25)
Rated power supply voltage		12 VDC (supplied from indoor units)
Power consumption	W	0.3
Usage environment		Temperature: 0 to 40° C (32 to 104° F) Humidity: 30 to 90%RH (with no condensation)
Material	Panel	PMMA
	Main body	PC + ABS
Sound Pressure Level	dB(A)	<70 [A-weighted sound pressure level] <sup>*1</sup>

\*1 Per Machinery Directive 2006/42/EC

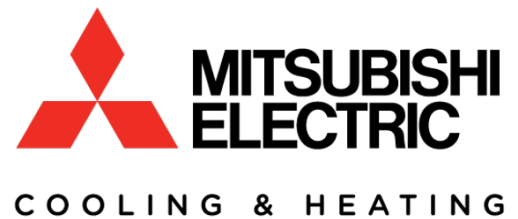
Notes:

## DIMENSIONS



(Front view)

(Side view)





## Model: MAC-333IF

Job Name: Casco Bay High School Expansion	Location:	Date:
Purchaser:	Engineer:	
Submitted to:	For <input type="checkbox"/> Reference <input checked="" type="checkbox"/> Approval <input type="checkbox"/> Construction	
System Designation: HP-1/HP-2	Schedule No.:	

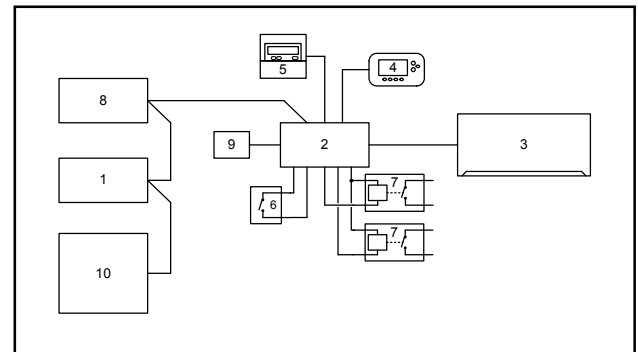


### MAC-333IF SYSTEM CONTROL INTERFACE SPECIFICATIONS FOR M-SERIES INDOOR UNITS

- Allows the M-Series indoor units to communicate with the CITY MULTI Controls Network via M-Net
- Provides two outputs to allow for the following control scenarios:  
 Note: External 12VDC power supply is required.  
**- Equipment Status and Error**
  - Equipment Status and Auxiliary Heat Source
  - Equipment Status and Humidifier Control
  - Auxiliary Heat Source and Humidifier Control
- Provides an input to allow remote On/Off control of indoor unit (3-Wire plug adapter included)
- Allows the M-Series indoor units to connect to MHK1 Wall-Mounted Wireless Remote Remote Controller when using other MAC-333IF functions  
 Note: External 12VDC power supply is required.
- Allows the M-Series indoor units to connect to a MA remote controller
- Operating conditions: Indoor only (ambient temperature 32° F to 104° F [0° C to 40° C], no condensation)
- Indoor unit connecting cable: Dedicated 5-wire cable included

### SYSTEM CONFIGURATION

Possible components connected with System Control Interface:



1. Centralized Controller (AG-150, GB-50ADA, GB-24\*, TC-24\*)
2. System Control Interface (MAC-333IF)
3. M-Series Indoor Unit
4. MHK1 Wall-Mounted Remote Controller
5. MA Remote Controller
6. Input Contact (Field Supplied)
7. Output Relay (Field Supplied)
8. M-Net Power Supply Unit (PAC-SC51KUA)
9. External 12VDC Power Supply (Field Supplied)
10. BAC-HD150\* or LMAP03U\*

\*GB-24 and TC-24 are not compatible with BAC-HD150 or LMAP03U.

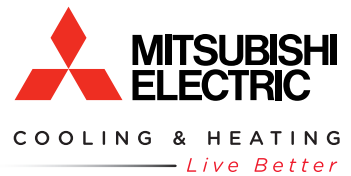
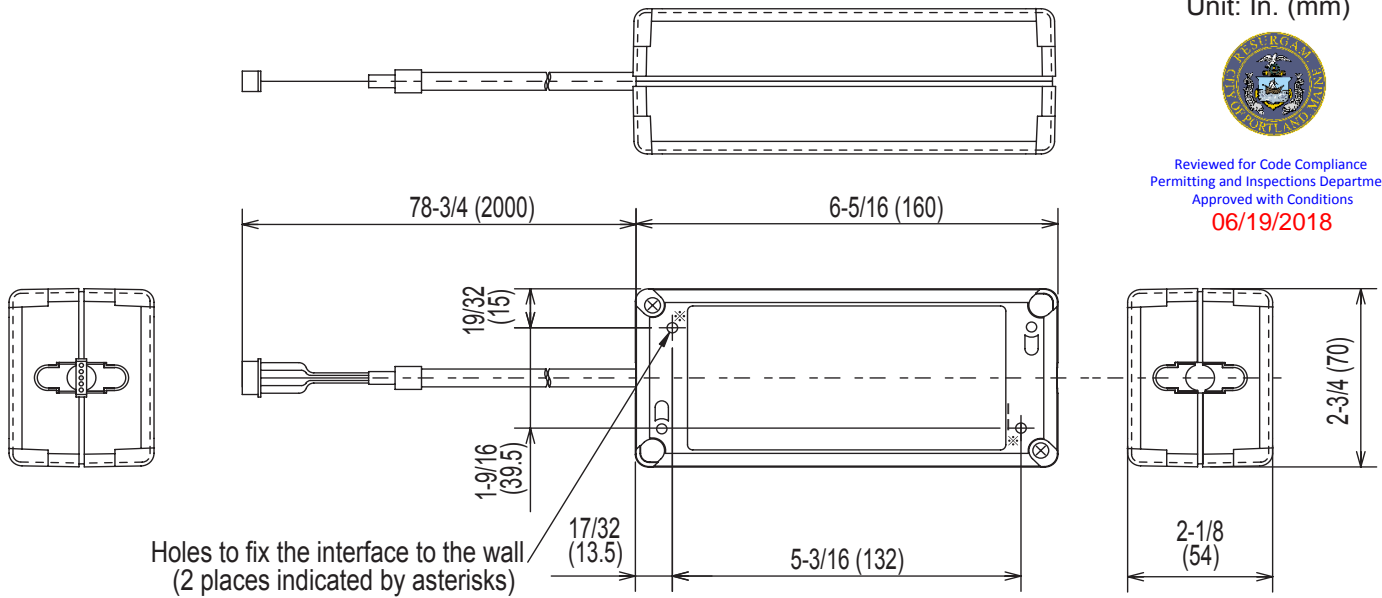
For details on individual components, please refer to the appropriate manual(s).

# Model: MAC-333IF – DIMENSIONS

Unit: In. (mm)



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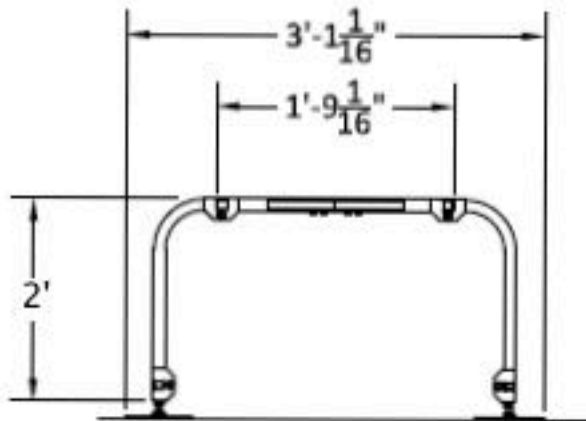


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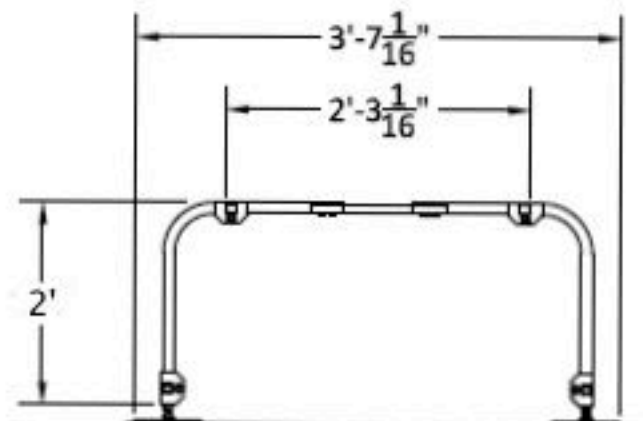
Specifications are subject to change without notice.



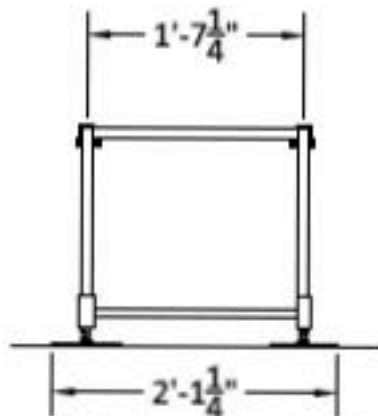
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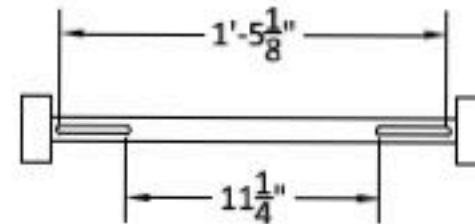
Side View - Retracted



Side View - Expanded



End View - Fixed



Spacer Bar Detail  
(Showing Range of Bolt Spacing)

**QUICK-SLING**

**ASSEMBLY DRAWING**  
**"MINI-SPLIT 24"**  
**ADJUSTABLE STAND - WIDE**  
**MODEL NO. QSMS2401**

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fax: 1-(800)-699-0423

Quick Sling, LLC  
391 W. Water Street  
Taunton, MA 02780  
1-(800)-699-0543