

NO EXCEPTIONS TAKEN SUBMIT SPECIFIED ITEM \boxtimes MAKE CORRECTIONS NOTED **REJECTED-SEE REMARKS** $\overline{\Box}$ AMEND & RE-SUBMIT SEE COMMENTS BELOW CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF THE WORK WITH THAT OF OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK. Justin M. Valliere, P.E. SIGNATURE 12/21/16 **REVIEW DATE**

Project: Carleton Street Housing

Submittal: 230000-2 Split System Air Conditioner System

Comments: NONE

BENCHMARK

34 Thomas Drive Westbrook, ME 04092 Ph: (207)591-7600 Fax: (207)591-7604

Transmittal

Archetype Architects To: 48 Union Wharf #2 Portland, ME 04101 Ph: (207)772-6022 Fax: (207)772-6022 **Transmittal #: 23**

Date: 12/19/2016 Job: 10-16-1833 Carleton Street Apartments

Subject: Submittal 230000-2 Split System Air **Conditioner System**

WE ARE SENDING Y	YOU 🗖 Attached	Under separate cover	via
☐ Shop drawings	Prints	Plans	☐ Samples
Copy of letter	Change order	□ Specifications	✓ Submittal

Copies	Date	No.	Description
1		230000-2	Split System Air Conditioner System
		Rev 0	

THESE ARE TRANSMITTED as checked below:

- For approval
- For your use \Box As requested
- For review and comment
- \Box FOR BIDS DUE
- **Remarks:**

Copy To:

Approved as submitted

- Approved as noted
- Returned for corrections
- Other

- □ Resubmit ____ copies for approval
- □ Submit ____ copies for distribution
- □ Return ____ corrected prints
- □ PLEASE SIGN AND RETURN TO OUR OFFICE

From: Andrew Mosley (BENCHMARK)

BENCHMARK

34 Thomas Drive Westbrook, ME 04092 Ph: (207)591-7600 Fax: (207)591-7604

Submittal Cover Sheet

Job: 10-16-1833 Carleton Street Apartments 17 Carleton Street Portland, ME 04101 **Spec Section No: Submittal No: Revision No:Sent Date:** 12/19/2016

Submittal Title: Split System Air Conditioner System

Contractor: BENCHMARK Andrew Mosley

Architect (Primary): Archetype Architects

Engineer

Contractor's Stamp

x Reviewed-No Except

Reviewed for general conformance with the design concept and contract documents. Markings or comments shall not be construed as relieving the Subcontractor from compliance with the Project plans and specifications, nor departure therefrom. The Subcontractor remains responsible for details and accuracy, for conforming and correlating all quantities and dimensions, for selecting fabrication processes, for techniques of assembly, and for performing the work in a safe manner.

BENCHMARK

Architect's Stamp

Engineer's Stamp

Damon Mechanical Services

Mechanical Engineers and Contractors

	SUBMITTAL CERTIFICATE		
PROJECT:	17 Carleton St Senior Housing		
LOCATION:	Portland, ME		
PROJECT NUMBER:	16038		
ENGINEER	Bennett Engineering		
SUBCONTRACTOR/VENDOR:	Damon Mechanical Services		
SUBMITTED BY:	Damon Mechanical Services		
CONTACT/PHONE:	Mike Lowe / 207- 784-7461		
SPECIFICATION SECTION: SUB PARAGRAPH: TITLE	230000 2.13 Split System Air Conditioner System		
PREPARED BY:	Mike Lowe, Project Manager		
SIGNATURE: DATE:	October 17, 2016		
SUBMITTED FOR REVIEW: CONTAINS VARIATIONS?:	Yes No		



Submittal # 1-001

To:	Damon Mechanical	Date:	10-13-16
From:	Homans Associates	Transmitted By:	Kevin Faria
	250 Ballardvale Street Wilmington, MA 01887	Copied To:	Nick St. Ours

Project	Carleton Street Senior Housing	Architect	Archetype
Order #		Engineer	Bennett Engineering
Purchaser			

Submittal Name: Equipment List

Submitted For :	Via:	The Following:
Approval/Action Information Distribution Record Revised/Resubmit	 Overnight Delivery Mail E-Mail Courier Fax Other 	 Drawings Specifications Digital Files Submittals O & M Manuals Other

Includes the following:

Unit Tag #	Model	Description	Format	Item Action	QTY:
SAC-3	MSYGE09NA-9	Wall Mounted Cooling Only	PDF	For Approval	1
SCU-3	MUYGE09NA2	Single Zone Cooling Only			1
SAC-1, 4	MSYGE12NA-9	Wall Mounted Cooling Only	PDF	For Approval	2
SCU-1, 4	MUYGE12NA	Single Zone Cooling Only			2
SAC-2	MSYGE18NA-9	Wall Mounted Cooling Only	PDF	For Approval	1
SCU-2	MUYGE18NA-1	Single Zone Cooling Only			1
	MHK1	Backlit Wireless Remote Controller	PDF	For Approval	4

M-SERIES

SUBMITTAL DATA: MSY-GE09NA-9 & MUY-GE09NA2

9,000 BTU/H WALL-MOUNTED AIR-CONDITIONING SYSTEMS

Job Name: Carleton Street Senior Housing System Reference: SAC-3, SCU-3



Wireless Remote Controller



GENERAL FEATURES

- Wall-mounted indoor unit
- Standard Hybrid Catechin Prefilter is included with indoor unit Quiet operation
- Auto fan speed control: Quiet, Low, Medium, High, and Super High
- Hand-held Wireless Remote Controller
- · Indoor unit powered from outdoor unit using A-Control
- · Auto restart following a power outage
- Anti-allergy Enzyme Filter
- Limited warranty: five years parts and seven years compressor

ACCESSORIES

Indoor Unit

- Condensate Pump (BlueDiamond X87-711/721; 115/230V)
 Condensate Pump (Sauermann SI30-115/230; 115/230V)
 Anti-Allergy Enzyme Filter (MAC-408FT-E)
 Drain Pan Level Sensor (DPLS2)

Outdoor Unit

- Three-pole Disconnect Switch (TAZ-MS303)
 Air Outlet Guide (MAC-889SG)
 Mounting Base (DSD-400N)
 Mounting Pad (ULTRILITE1)

- Wall Mounting Bracket (QSWB2000M-1)

Controller Options

- Wireless Controller (MHK1)
 Wired Remote Controller PAR-31MAA (Requires MAC-333IF-E)
 Wireless Interface for kumo cloud™ (PAC-WHS01WF-E)

- Thermostat Interface (PAC-US444CN-1)

	Date: 10-13-16
SPECIFICATIONS Cooling ¹	
Rated Capacity Capacity Range Rated Total Input Maximum Total Input SEER	3,800 - 12,200 Btu/h 660 W 1,200 W
Rating Conditons: ¹ Cooling Indoor: 80° F (27° C) DB / 67° F (19° ¹ Cooling Outdoor: 95° F (35° C) DB / 75° F (24	C) WB I° C) WB
ENERGY STAR®. ENERGY STAR products are third-party certified by an Eff	PA-recognized Certification Body
Electrical Requirements Power Supply	
Voltage Indoor - Outdoor S1-S2 Indoor - Outdoor S2-S3 Indoor - Remote Controller	DC +/- 24V
Operating Conditions Cooling ²	
Indoor Intake Air Temp (Max.) 90° F (32° (Min.) 67° F (19° Outdoor Intake Air Temp	C) DB / 57º F (14º C) WB (Max.) 115º F (46º C) DB
Indoor Unit MCA	1.0 A
Blower Motor (ECM) Blower Motor Output Airflow (Quiet - Lo - Med - Hi - Super Hi)	0.76 F.L.A.
Cooling145-17 109-13 Sound Pressure Level (Quiet - Lo - Med - H	4-201-286-364 Wet CFM
Sound Fressure Level (Quiet - LO - Meu - F	

Cooling 19-22-30-37-43 dB(A) External Finish Color Munsell 1.0Y 9.2/0.2

External Finish Color Munsell 3Y 7.8/1.1

Height Difference (Max.) 40' / 12 m

Indoor/Outdoor.....Flared

Dimension Unit

Outdoor Unit

Sound Pressure Level

External Dimensions

Refrigerant Pipe

Refrigerant Pipe Length

Connection Method

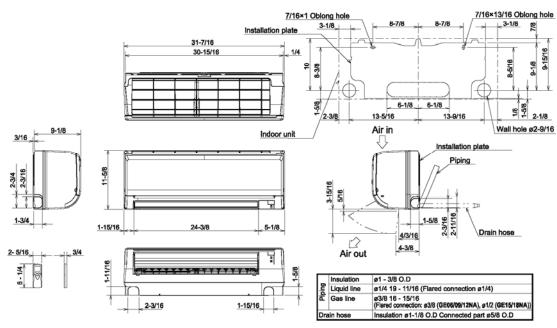


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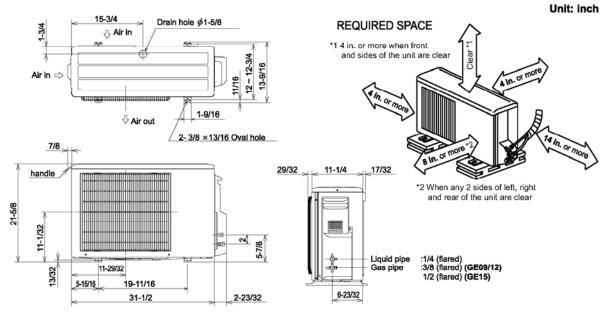
DIMENSIONS: MSY-GE09NA-9 & MUY-GE09NA2

MSY-GE09NA-9

Unit: inch



MUY-GE09NA2





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



FORM# MSY-GE09NA-9 ~ MUY-GE09NA2 - 201603

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COOLING & HEATING



SUBMITTAL DATA: MSY-GE12NA-9 & MUY-GE12NA

12,000 BTU/H WALL-MOUNTED AIR-CONDITIONING SYSTEMS

Job Name: Carleton Street Senior Housing

System Reference: SAC-1, 4 SCU-1, 4

Date: 10-13-16



GENERAL FEATURES

- · Wall-mounted indoor unit
- · Standard Hybrid Catechin Prefilter is included with indoor unit
- · Quiet operation
- · Auto fan speed control: Quiet, Low, Medium, High, and Super High
- Hand-held Wireless Remote Controller
- · Indoor unit powered from outdoor unit using A-Control
- · Auto restart following a power outage
- Anti-allergy Enzyme Filter
- · Limited warranty: five years parts and seven years compressor

ACCESSORIES

- **Outdoor Unit**
- Drain Socket Assembly (MAC-860DS)

Indoor Unit

Condensate Pump (230V; SI3100-230)

Controller Options

- Wireless Wall-mounted Remote Controller Kit (MHK1)*
- Portable Central Controller (MCCH1)*
- Outdoor Air Sensor (MOS1)*
 Wired Wall-mounted Controller
- (PAR-31MAA requires MAC-333IF)*
- D Simple MA Remote Controller (PAC-YT53CRAU requires MAC-333IF)*
- *See Submittal for information on each option.
- □ System Control Interface (MAC-333IF)
- Remote Temperature Sensor (M21-JKO-307)
- Lockdown Bracket for Hand-held Controller (RCMKP1CB)



SPECIFICATIONS: MSY-GE12NA-9 & MUY-GE12NA

Cooling*

Rated Capacity	1
Minimum Capacity	
SEER	
Total Input	/

* 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

Electrical Requirements

Power Supply	 208 / 230V, 1-Phase, 60 Hz
Breaker Size	 15 A

Voltage

Indoor - Outdoor S1-S2	AC 208 / 230V
Indoor - Outdoor S2-S3	DC ±24V
Indoor - Remote Controller	
	PAR-31MAA DC 12V
F	PAC-YT53CRAU DC 12V

OPERATING RANGE

		Indoor Intake Air Temp.	Outdoor Intake Air Temp.
Cooling	Maximum	90° F (32° C) DB 73° F (23° C) WB	115º F (46º C) DB
Cooling	Minimum	67° F (19° C) DB 57° F (14° C) WB	14º F (-10º C) DB

Indoor Unit

DIMENSIONS	UNIT INCHES / MM
W	31-7/16 / 799
W D H	9-1/8 / 232
Н	11-5/8 / 295
Weight. External Finish Field Drainpipe Size O.D	
Outdoor Unit Compressor	DC Inverter-driven 12 A 0.50 F.L.A.
Cooling	

DIMENSIONS	INCHES / MM
W	31-1/2 / 800
D	11-1/4 / 286
Н	21-5/8 / 549

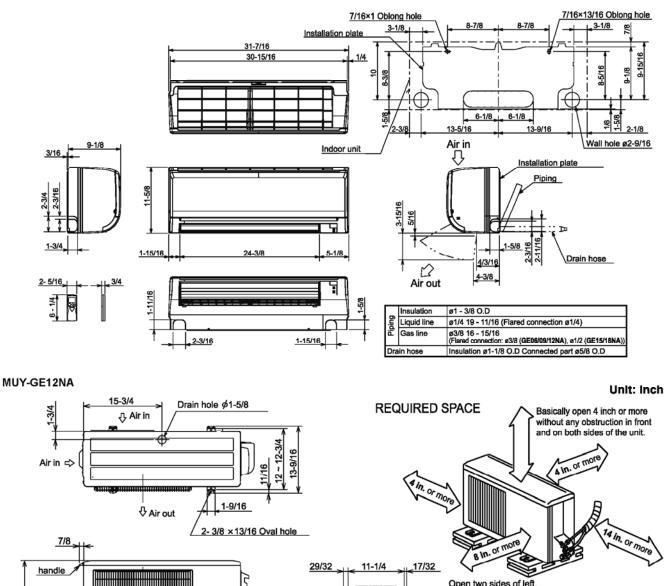
Weight
Refrigerant Type
Gaš Side
Max. Refrigerant Pipe Length
Max. Refrigerant Pipe Height Difference
Connection Method Flared

Notes:

DIMENSIONS: MSY-GE12NA-9 & MUY-GE12NA

MSY-GE12NA-9

Unit: inch



5-7/8

2-23/32

Open two sides of left, right, or rear side.

Liquid pipe

Gas pipe

6-23/32

:1/4 (flared) :3/8 (flared) (GE09/12) 1/2 (flared) (GE15)



11-29/32

19-11/16

31-1/2

5-15/16

21-5/8

11-1/32

13/32

COOLING & HEATING

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COOLING & HEATING

M-SERIES

SUBMITTAL DATA: MSY-GE18NA-9 & MUY-GE18NA-1 18.000 BTU/H WALL-MOUNTED AIR-CONDITIONING SYSTEMS

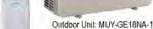
Job Name: Carleton Street Senior Housing

System Reference: SAC-2, SCU-2

Date: 10-13-16



Wireless Remote Controller



GENERAL FEATURES

- · Wall-mounted indoor unit
- · Standard Hybrid Catechin Prefilter is included with indoor unit
- · Quiet operation
- · Auto fan speed control: Quiet, Low, Medium, High, and Super High
- Hand-held Wireless Remote Controller
- · Indoor unit powered from outdoor unit using A-Control
- · Auto restart following a power outage
- Anti-allergy Enzyme Filter
- · Limited warranty: five years parts and seven years compressor

ACCESSORIES

Outdoor Unit

Drain Socket Assembly (MAC-811DS)

Indoor Unit

Condensate Pump (230V; SI3100-230)

Controller Options

- Wireless Wall-mounted Remote Controller Kit (MHK1)*
- Portable Central Controller (MCCH1)*
- Outdoor Air Sensor (MOS1)*
 Wired Wall-mounted Controller
- (PAR-31MAA requires MAC-333IF)* D Simple MA Remote Controller
- (PAC-YT53CRAU requires MAC-333IF)*
- *See Submittal for information on each option.
- □ System Control Interface (MAC-333IF)
- Remote Temperature Sensor (M21-JKO-307)
- Lockdown Bracket for Hand-held Controller (RCMKP1CB)



SPECIFICATIONS: MSY-GE18NA & MUY-GE18NA

Cooling*

Rated Čapacity17,200 Btu/r	1
Minimum Capacity	L
SEER	
Total Input	/

* 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

Electrical Requirements

Power Supply	 . 208 / 230V, 1-Phase, 60 Hz
Breaker Size	 15 A

Voltage

Indoor - Outdoor S1-S2 AC 208 / 230V
Indoor - Outdoor S2-S3DC ±24V
Indoor - Remote Controller MHK1 DC 3V
PAR-31MAA DC 12V
PAC-YT53CRAU DC 12V

OPERATING RANGE

		Indoor Intake Air Temp.	Outdoor Intake Air Temp.
Cooling	Maximum	90° F (32° C) DB, 73° F (23° C) WB	115º F (46º C) DB
Cooling	Minimum	67º F (19º C) DB, 57º F (14º C) WB	14º F (-10º C) DB

Indoor Unit

	UNIT INCHES / MM
W	31-7/16 / 799
W D H	9-1/8 / 232
Н	11-5/8 / 295
Weight	Munsell No. 1.0Y 9.2 / 0.2

Outdoor Unit

	DC Inverter-driven Twin Rotary
MCA	
Fan Motor (ECM)	
Sound Pressure Level	
Cooling	

DIMENSIONS	INCHES / MM
W	33-1/16 / 840
D	13 / 330
Н	33-7/16 / 849

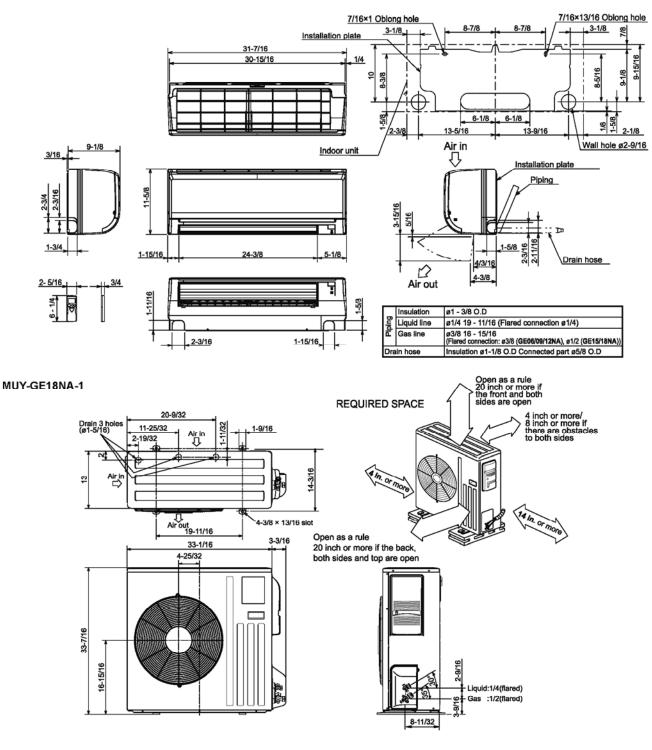
Weight
Refrigerant Type
Gas Side
Max. Refrigerant Pipe Length
Max. Refrigerant Pipe Height Difference
Connection Method Flared

Notes:

DIMENSIONS: MSY-GE18NA-9 & MUY-GE18NA-1

MSY-GE18NA-9

Unit: inch





FORM# MSY-GE18NA-9 ~ MUY-GE18NA-1 - 201503 Specifications are subject to change without notice. © 2015 Mitsubishi Electric US, Inc.



COOLING & HEATING

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COOLING & HEATING

M-SERIES P-SERIES

Date: 10-13-16

SUBMITTAL DATA: MHK1 REMOTE CONTROLLER KIT FOR M-SERIES AND P-SERIES

Job Name: Carleton Street Senior Housing

System Reference:

MHK1 REMOTE CONTROLLER KIT INCLUDES:

MRCH1 REMOTE CONTROLLER

- For use with P-Series NHA4 systems, SEZ-4/SUZ one-toone systems, SLZ/SUZ one-to-one systems, MXZ-B multi-zone systems, MSY/MSZ, and MFZ indoor units
- Backlit, easy-to-read display Supports both Fahrenheit and Celsius
- User functions allow user to set: - On/Off

 - Operation modes cool,heat, drying, fan
 Set temperature (separate dual set points for heat and cool) - Fan speed setting

12

1000

12

- Airflow direction
- Day/Time display with a 12-hour clock
- Filter sign display Optimal start
- Adjustable auto deadband
- Space temperature offset adjustment
- Display outside temperature and humidity (requires optional MOS1, sold separately)
- Hold function
- Temporary schedule override
- Reset to factory default
- Auto lock display
 - Timer Operation: - Daily Timer: On/Off times can be set up to 4 times per day in 15-minute increments.
 - Weekly Timer: On/Off times can be set up to 4 times per day of the week in 15-minute increments. Choice of 5-2 and 5-1-1 weekly schedules for heat, cool, auto (separate for each mode)
 - Auto-off Timer: Turns indoor unit Off at scheduled time up to 24 hours in advance
- Room Temperature: Displays room temperature sensed either at the indoor unit or at the remote controller (default)
- Set temperature range limits (dependent on the system connected): Cooling from 50° to 99° F Heating from 40° to 90° F
 - Auto from 50° to 90°F with dual temperature setting

- Diagnostics: Displays and records error codes
- No addressing required
- Can be integrated with other RedLINK[™] devices
- Wiring: Connects using five-conductor cable from MIFH1 Wireless Receiver (cable included) to indoor unit; wireless RF from the MIFH1 Wireless Receiver to the MRCH1 Remote Controller
- Dimensions: 3-9/16" H x 5-13/16" W x 1-1/2" D (147 x 38 x 91mm)
- Uses two "AA" alkaline batteries (included)

MIFH1 WIRELESS RECEIVER

- Mounts next to or near indoor units to allow MRCH1 Remote Controller operation of P-Series NHA4 systems, SEZ-4/SUZ one-to-one systems, SLZ/SUZ one-toone systems , MXZ-B multi-zone systems, MSY/MSZ, and MFZ indoor units
- Dimensions: 6-7/16" H x 3-1/4" W x 1-5/16" D (164 x 82.5 x 34 mm)

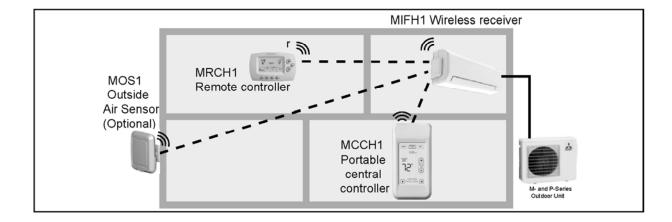
MRC1 CABLE

- · Connects MIFH1 Wireless Receiver to five-
- pin CN105 on indoor unit control board
- · Five-conductor wire with preterminated ends
- Length: 6-1/2' (2 m)

ACCESSORIES

- Portable Central Controller (MCCH1; for use with Wireless Remote Controller Kit MHK1)*
- Outdoor Air Sensor (MOS1; for use with Wireless Remote Controller Kit MHK1)*

*See Submittal for information on each option.



FORM# MHK1 - 201410Ver2 RedLINK is a trademark of Honeywell, Inc. Specifications are subject to change without notice. © 2014 Mitsubishi Electric US, Inc.



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