



Weaver

CONSTRUCTION MANAGEMENT

3679 S Huron Street, Suite 404 Englewood, Colorado 80110

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SUBMITTAL TRANSMITTAL

June 6, 2012

Submittal No: 15800-016

PROJECT: **Harold Thompson Regional WRF**
Birdsall Rd.
Fountain, CO 80817
Job No. 2908

ENGINEER: **GMS, Inc.**
611 No. Weber St., #300
Colorado Springs, CO 80903
719-475-2935 Roger Sams

OWNER: **Lower Fountain Metropolitan
Sewage Disposal District**
901 S. Santa Fe Ave.
Fountain, CO 80817
719-382-5303 James Heckman

CONTRACTOR: **Kuck Mechanical Contractors, LLC.**
395 West 67th Street
Loveland, CO 80593
970-461-3553 Melanie Peterson

SUBJECT: Split System for Headworks Building Electrical Room

SPEC SECTION: 15800 - Heating & Ventilating

PREVIOUS SUBMISSION DATES:

DEVIATIONS FROM SPEC: ___ YES X NO

CONTRACTOR'S STAMP: This submittal has been reviewed by Weaver Construction Management and, unless indicated otherwise, has been found to be in conformance with the intent of the contract documents.

Contractor's Stamp:

Date: 6/6/12

Reviewed by: Tyler Ammerman

(x) Reviewed Without Comments

() Reviewed With Comments

Engineer's Stamp:

ENGINEER'S

COMMENTS: _____



Submittal

Prepared For:
All Bidders

Date: March 13, 2012

Customer P.O. Number:
Customer Project Number:

Sold To:

Job Number:
Job Name:
Harold Thompson Reclamation Facility

Trane U.S. Inc. dba Trane is pleased to provide the enclosed submittal for your review and approval.

Product Summary

Qty	Product
1	MSZFE09NA/MUZFE09NA

The attached information describes the equipment we propose to furnish for this project, and is submitted for your approval.

Tony Fischels
Trane
445 Bryant St., Suite 5
Denver, CO 80204-4800
Phone: (303) 209-3239
Fax: (303) 228-2828

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Product Summary 1

MSZFE09NA/MUZFE09NA (Item A1)

 Tag Data 3

 Product Data 3

Tag Data - Mitsubishi Ductless Split System (Qty: 1)

Item	Tag(s)	Qty
A1	DSFC-1/DSCU-1	1

Product Data – Mitsubishi Ductless Split System**Item: A1 Qty: 1 Tag(s): DSFC-1/DSCU-1**

MSZFE09NA

MUZFE09NA

Wall-Mounted

9,000 BTUH Cooling / 10,900 BTUH Heating

26.0 SEER / 10.0 HSPF

208-230/1/60

Controller

7-year warranty on compressor

5-year warranty on parts

50' Refrigerant Line Set (Fld)

SUBMITTAL DATA: MSZ-FE09NA-8 & MUZ-FE09NA-1
9,000 BTU/H WALL-MOUNTED HEAT PUMP SYSTEM

Job Name:	Location:	Date:
Purchaser:	Engineer:	
Submitted to:	For <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction	
System Designation:	Schedule No.:	

GENERAL FEATURES

- Highly energy-efficient system that features 100% heating capacity at 5°F, 82% at -4°F, and 62% at -13°F
- Updated sleek, compact indoor unit design
- Includes Standard, Platinum Deodorizing, and Anti-allergy Enzyme filters for a complete air purifying system
- "Powerful Mode" function permits system to temporarily run at a lower/higher temperature with an increased fan speed, which quickly brings the room to the optimum comfort level
- Integrated i-see Sensor automatically adjusts the unit's operation according to temperature differences detected between the floor and the intake air, ensuring optimum comfort and energy usage
- Hand-held Wireless Remote Controller
- Base heater is available as an option
- Limited warranty: five years on parts and defects and seven years on compressors

OPTIONAL ACCESSORIES
Outdoor Unit

- Base Heater (MAC-640BH-U)
- Drain Socket (MAC-851DS)

Indoor Unit

- Condensate Pump (SI3100-230; 230V)
- Replacement Platinum Deodorizing Filter (MAC-308FT)
- Replacement Anti-allergy Enzyme Filter (MAC-418FT; MERV 8)

Controller Options

- Wireless Remote Controller Kit (MHK1) with Remote Controller (MRCH1), Wireless Receiver (MIFH1), and cable (MRC1)*
- Setback down to 50°F when used with MRCH1 Remote Controller
- Portable Central Controller (MCCH1; for use with Wireless Remote Controller Kit MHK1)*
- Outdoor Air Sensor (MOS1; for use with Remote Controller (MRCH1), Wireless Remote Controller Kit (MHK1) and Portable Central Controller (MCCH1)*

*See Submittal for information on each option.

- Wall-mounted Wired Remote Controller (PAR-21MAA; Requires MAC-3971F)
- M-NET Control Adapter (MAC-3991F)
- MA Contact Terminal Interface (MAC-3971F)

Cooling*

Rated Capacity 9,000 Btu/h
 Minimum Capacity 2,800 Btu/h
 SEER 26.0 Btu/h/W
 Total Input 580 W

Heating at 47° F*

Rated Capacity 10,900 Btu/h
 Minimum Capacity 3,000 Btu/h
 HSPF 10.0 Btu/h/W
 Total Input 710 W

Heating at 17° F*

Rated Capacity 6,700 Btu/h
 Rated Total Input 650 W
 Maximum Capacity 12,500 Btu/h
 Maximum Total Input 1,730 W

* Rating Conditions (Cooling) - Indoor: 80°F (27°C) DB, 67°F (19°C) WB; 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; Outdoor: 47°F (8°C) DB, 43°F (6°C) WB.
 (Heating at 17°F) - Indoor: 70°F (21°C) DB, 60°F (16°C) WB; Outdoor: 17°F (-8°C) DB, 15°F (-9°C) WB.

Heating at 5° F

Maximum Capacity 10,900 Btu/h

Electrical Requirements

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

OPERATING RANGE

		Indoor Intake Air Temp.	Outdoor Intake Air Temp.
Cooling	Maximum	90°F (32°C) DB, 73°F (23°C) WB	115°F (46°C) DB
	Minimum	67°F (19°C) DB, 57°F (14°C) WB	14°F (-10°C) DB
Heating	Maximum	80°F (27°C) DB, 67°F (19°C) WB	75°F (24°C) DB, 65°F (18°C) WB
	Minimum	70°F (21°C) DB, 60°F (16°C) WB	-13°F (-25°C) DB, -15°F (-26°C) WB**

** System cuts out at -18°F (-28°C) to avoid thermistor error, but recovers from cutout operation and automatically restarts at -13°F (-25°C).



Indoor Unit: MSZ-FE09NA-8



Wireless Remote Controller



Outdoor Unit: MUZ-FE09NA-1

Voltage

Indoor - Outdoor S1-S2 AC 208 / 230V
 Indoor - Outdoor S2-S3 DC 12-24V
 Wireless Remote Controller D C

Indoor Unit

MCA 1 A
 Fan Motor 0.76 F.L.A.
 Airflow
 Cooling (Lo - Med - Hi - Powerful) . . . 162 - 226 - 339 - 381 Dry CFM
 144 - 202 - 307 - 343 Wet CFM
 Heating (Lo - Med - Hi - Powerful) . . . 166 - 240 - 367 - 381 Dry CFM
 Sound Pressure Level
 Cooling (Lo - Med - Hi - Powerful) 22 - 31 - 39 - 42 dB(A)
 Heating (Lo - Med - Hi - Powerful) 22 - 31 - 40 - 42 dB(A)

DIMENSIONS	UNIT INCHES / MM
W	31-3/8 / 799
D	10-1/8 / 257
H	11-5/8 / 295

Weight 27 lbs. / 12 kg
 External Finish Munsell No. 1.0Y 9.2 / 0.2
 Field Drainpipe Size O.D. 5/8" / 15.88 mm
 Remote Controller Wireless

Outdoor Unit

Compressor DC Inverter-driven Twin Rotary
 MCA 12 A
 Fan Motor 0.56 F.L.A.
 Sound Pressure Level
 Cooling 48 dB(A)
 Heating 49 dB(A)

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

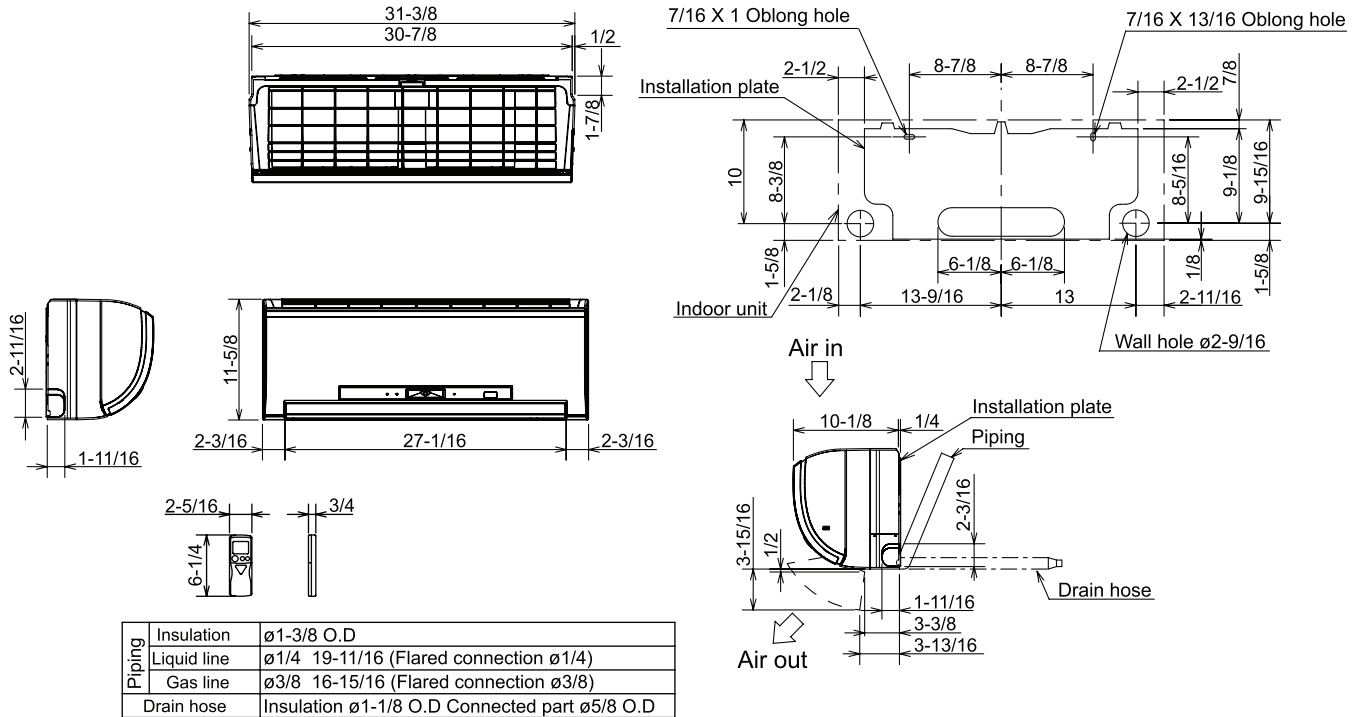
Weight 80 lbs. / 36 kg
 External Finish Munsell No. 3.0Y 7.8 / 1.1
 Refrigerant Type R410A
 Refrigerant Pipe Size O.D.
 Gas Side 3/8" / 9.52 mm
 Liquid Side 1/4" / 6.35 mm
 Max. Refrigerant Pipe Length 65' / 20 m
 Max. Refrigerant Pipe Height Difference 40' / 12 m
 Connection Method Flared



DIMENSIONS: MSZ-FE09NA-8 & MUZ-FE09NA-1

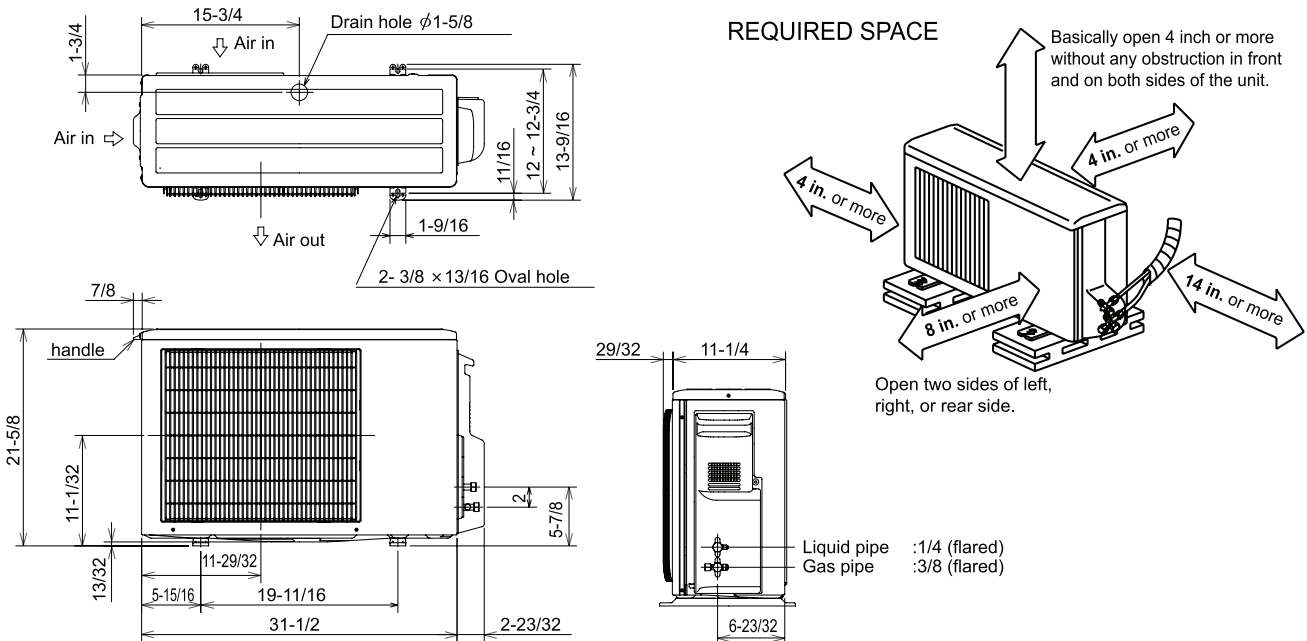
MSZ-FE09NA-8

Unit: inch

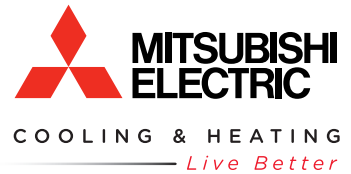


MUZ-FE09NA-1

Unit: inch



Intertek



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Specifications are subject to change without notice.