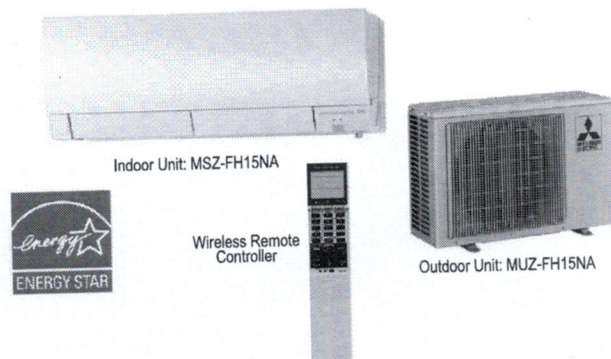


SUBMITTAL DATA: MSZ-FH15NA & MUZ-FH15NA

15,000 BTU/H WALL-MOUNTED HEAT PUMP SYSTEM

| | | |
|--------------------------------|--|-------|
| Job Name: <i>Scott Corliss</i> | 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 parts and seven years compressors

ACCESSORIES
Outdoor Unit

- Base Heater (MAC-642BH-U)
- Three-pole Disconnect Switch (TAZ-MS303)
- Air Outlet Guide (MAC-856SG)
- Mounting Base (DSD-400N)
- Mounting Pad (ULTRILITE1)
- Drain Socket Assembly (MAC-860DS)

Indoor Unit

- Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- Condensate Pump (Saueremann SI30-115/230; 115/230V)
- Replacement Platinum Deodorizing Filter (MAC-3000FT-E)
- Replacement Anti-allergy Enzyme Filter ((MAC-2330FT-E)

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)*
 - 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 : MSZ-FH15NA & MUZ-FH15NA

Cooling *1

| | |
|---------------------------|----------------------|
| Rated Capacity | 15,000 Btu/h |
| Capacity Range | 6,450 - 19,000 Btu/h |
| Rated Total Input | 1,200 W |
| Maximum Total Input | 2,200 W |
| SEER | 22.0 Btu/h/W |

Heating at 47° F *2

| | |
|---------------------------|----------------------|
| Rated Capacity | 18,000 Btu/h |
| Capacity Range | 5,150 - 24,000 Btu/h |
| Rated Total Input | 1,300 W |
| Maximum Total Input | 3,360 W |
| HSPF | 12.0 Btu/h/W |

Heating at 17° F *3

| | |
|---------------------------|--------------|
| Rated Capacity | 11,000 Btu/h |
| Maximum Capacity | 18,000 Btu/h |
| Rated Total Input | 1,020 W |
| Maximum Total Input | 2,480 W |

Heating at 5° F

| | |
|---------------------------|--------------|
| Maximum Capacity | 18,000 Btu/h |
| Maximum Total Input | 3,000 W |

Rating Conditions:

- *1 Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB
- *1 Cooling | Outdoor: 95° F (35° C) DB / 75° F (24° C) WB
- *2 Heating at 47° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
- *2 Heating at 47° F | Outdoor: 47° F (8° C) DB / 43° F (6° C) WB
- *3 Heating at 17° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
- *3 Heating at 17° F | Outdoor: 17° F (-8° C) DB / 15° F (-9° C) WB
- *4 Heating at 5° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
- *4 Heating at 5° F | Outdoor: 5° F (-15° C) DB / 5° F (-15° C) WB

Electrical Requirements

| | |
|--------------------|----------------------------|
| Power Supply | 208 / 230V, 1-Phase, 60 Hz |
| Breaker Size | 20 A |

Voltage

| | |
|----------------------------------|---------------------|
| Indoor - Outdoor S1-S2 | AC 208 / 230V |
| Indoor - Outdoor S2-S3 | DC +/- 24V |
| Indoor - Remote Controller | MKH1 DC 3V |
| | PAR-31MAA DC 12V |
| | PAC-YT53CRAU DC 12V |

Operating Conditions

Cooling

| | |
|------------------------------------|--|
| Indoor Intake Air Temp. . . (Max.) | 90° F (32° C) DB / 73° F (23° C) WB |
| | (Min.) 67° F (19° C) DB / 57° F (14° C) WB |

| | |
|---|--------------------------|
| Outdoor Intake Air Temp. (Max.) | 115° F (46° C) DB |
| | (Min.) 14° F (-10° C) DB |

Heating

| | |
|------------------------------------|--|
| Indoor Intake Air Temp. . . (Max.) | 80° F (27° C) DB / 67° F (19° C) WB |
| | (Min.) 70° F (21° C) DB / 60° F (16° C) WB |

| | |
|---------------------------------|--|
| Outdoor Intake Air Temp. (Max.) | 75° F (24° C) DB / 65° F (18° C) WB |
| | (Min.) -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

| | |
|---------------------------|-------------|
| MCA | 1.0 A |
| Blower Motor (ECM) | 0.67 F.L.A. |
| Blower Motor Output | 30 W |

Airflow (Lo - Med - Hi - Super Hi - Powerful)

| | |
|---------------|-----------------------------|
| Cooling | 225-262-304-355-411 Dry CFM |
| | 194-225-261-305-354 Wet CFM |
| Heating | 201-254-317-394-497 Dry CFM |

Sound Pressure Level (Lo - Med - Hi - Super Hi - Powerful)

| | |
|---------------|----------------------|
| Cooling | 27-31-35-39-44 dB(A) |
| Heating | 25-29-34-39-46 dB(A) |

External Finish Color

Munsell 1.0Y 9.2/0.2

External Dimensions

| | |
|---------------|-------------------------------------|
| Inches: | 12 + 11/16 H x 36-7/16 W x 9-3/16 D |
| mm: | 305 +17 H x 925 W x 234 D |

Weight Unit

29 lbs. / 12 kg

Field Drainpipe Size O.D.

19/32 In. / 15mm

Outdoor Unit

| | |
|-----------------------|-------------|
| MCA | 16 A |
| Fan Motor (ECM) | 0.93 F.L.A. |

Sound Pressure Level

| | |
|------------------|----------|
| Cooling *1 | 51 dB(A) |
| Heating *2 | 55 dB(A) |

External Finish Color

Munsell 3Y 7.8/1.1

Dimensions

| | |
|--------------|-----------------------------|
| Inches | 34-5/8 H x 33-1/16 W x 13 D |
| mm: | 880 H x 840 W x 330 |

Weight

124 lbs. / 56 kg

Refrigerant Type

R410A

Refrigerant Pipe

| | |
|-----------------------|----------------|
| Gas Side O.D. | 1/2" x 12.7 mm |
| Liquid Side O.D. | 1/4" x 6.35 mm |

Refrigerant Pipe Length

| | |
|--------------------------------|------------|
| Height Difference (Max.) | 50' x 15m |
| Length (Max.) | 100' x 30m |

Connection Method

Indoor/Outdoor

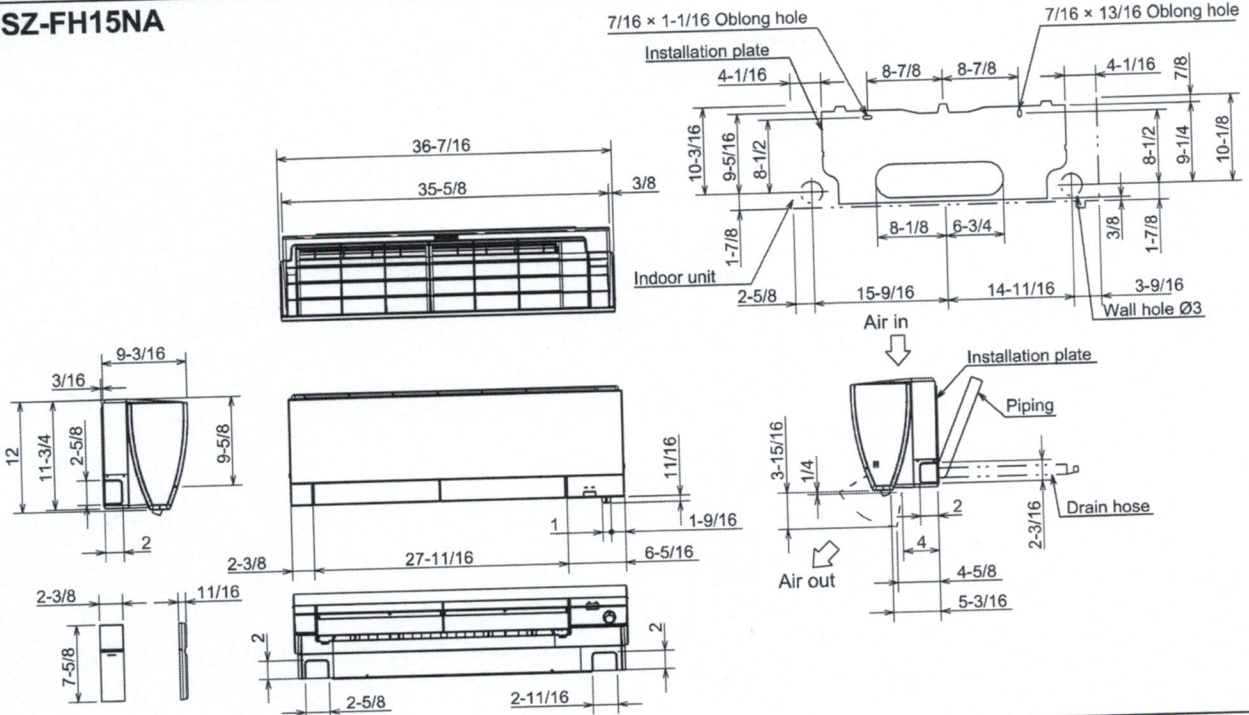
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Notes:

DIMENSIONS: MSZ-FH15NA & MUZ-FH15NA

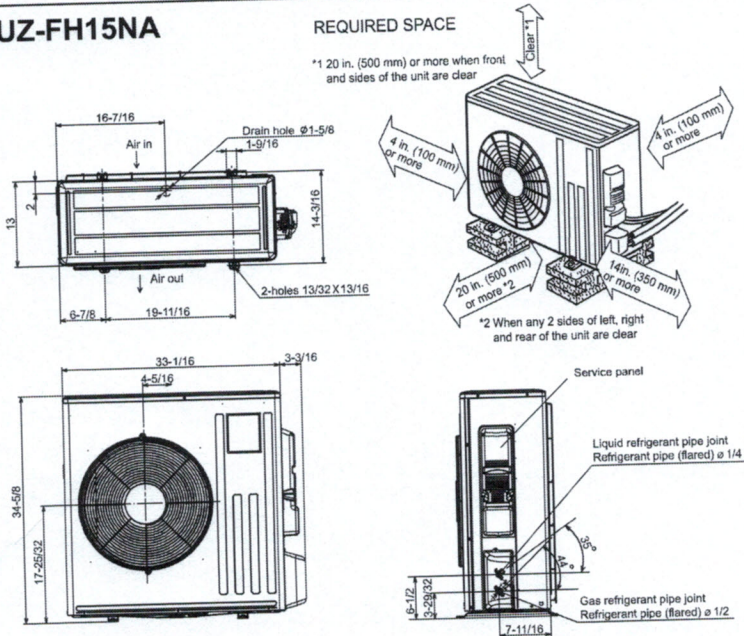
MSZ-FH15NA

Unit: mm (in.)



MUZ-FH15NA

Unit: mm (in.)

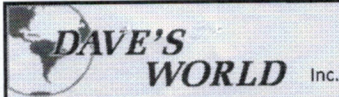


Intertek



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Maine's Leader in Heat pump sales & service

adrian.bouchard@davesworld.com
 www.davesworld.com

| | | | |
|---|-----------------------------------|-----------------------------|--|
| Invoice # | 8535160 | | |
| Customer Information | \$2,098.08 | Final Payment Amount | |
| Date: 11.15.16 | \$0.00 | Amount Paid | |
| Name: Scott Corliss | Please Indicate Method of Payment | | |
| Address: 24 Haverty's Way | X | Credit Card | |
| City/State/Zip: Portland, ME 04104 | | Financing | |
| Phone: 756-5103 | | Cash | |
| Alt. Phone#: | | Check# | |
| e-mail: scott.corliss@gmail.com | A/R Notes | | |
| ** MUST CHECK METHOD OF PAYMENT ** | | | |

Outside Salesperson Adrian Bouchard 207-717-9398

| Quantity | Description | Total |
|----------|--|------------------------------------|
| | HEAT PUMP RECEIPT | |
| 1 | High Efficiency Heat Pump(s) | \$4,196.16 |
| | 1- Mitsubishi 15,000btu single zone hyper heat pump system. 1- MUZ-FH15NA outdoor unit on foundation bracket with weather protection cap on back of garage. 1- MSZ0FH15NA wall unit on gable end between windows. Includes PAC-US44CN-1, 3rd party interface kit. Line sets to be roughed in during construction and to run through basement below floor joists. Mitsubishi Diamond Contractor Warranty: 12 years parts. | |
| | <i>All materials, labor, and electrical work is included in the 'Total Amount Due' box as well as a Complete 100% Satisfaction Guarantee! Dave's World is a Qualified Partner for Efficiency Maine's residential, commercial, and multi-family rebate programs and can assist you in filing for your rebate(s).</i> | |
| | | \$0.00 |
| | | \$0.00 |
| | | \$0.00 |
| | 24 Month Buy Back/Satisfaction Guarantee For Mitsubishi and Fujitsu Heat Pump(s) *\$50 Referral Fee Applied to Total* | \$4,196.16 |
| | Thank You For The Opportunity To Earn Your Business | -\$500.00 |
| | All Material is Guaranteed to as specified. All Work To Be Completed in a Professional Manner According to Standard Practices. Any Alteration or Deviation From Above Specifications Will Be In Addition to This Quote, If Involving Extra Costs. All Agreements Contingent Upon Delays Beyond Our Control. Purchaser Agrees to Pay All Cost Of Collection, Including Attorney's Fees. | Net Cost After Rebate |
| | | Final Amount Due |
| | | Approximate Monthly Payment |

Please sign one copy and check your preferred method of payment in the Top Right of this Form. This estimate is good for 15 days from above Date.

 AUTHORIZED SIGNATURE (Salesperson)

 ACCEPTANCE SIGNATURE (Customer)

 DATE

PRACTICING AWESOMENESS...