11 Walden Street

Portsmouth NH
Judie & Steve Mraz/Dion

Residential plumbing/Mechanical/Gas permit: PMGR-22-163

Historic District Commission Work Session or Administrative Approval Application:

LUHD-502

Land Use Application: LU-22-177

Dwelling Units: One **Lot Area:** .012 Ac.

Description of proposed project:

Installation of a Mitsubishi heat pump system with one outdoor unit and three indoor units. The outdoor unit to be mounted on the Northern most point of the West side of the structure. One wall ductless split mounted on the West side of the First Floor to condition that space. Two floor units, one in each of the two Bedrooms on the Second Floor. Line hide to enclose all refrigerant lines etc. on the exterior of the home. All 3.5" and 4.5" line hide will be painted to match the building color.

All line hide to be located on the West and North side of the home only.

Distance from outdoor unit to property lines:

18" from the unit to the side property line 12" from the unit to the rear property line

Description of existing land use:

Single Family Residence

Project Representatives:

HVAC contractor
Jay T. Aucella
Aucella Heating & Cooling
6 Province Road
Strafford, NH 03884
(866) 926-6888
jay@aucella.biz

The variance will not be contrary to the public interest.

The Mitsubishi outdoor unit is quiet: Sound pressure level: Heating = 56 dB(A) Cooling = 52 dB(A)

The Mitsubishi outdoor unit will be hung from the building by a bracket. The outdoor unit protrudes only 18" from the West wall and is partially / mostly hidden by two trees depending on the viewing angle.

The spirit of the Ordinance will be observed

The installation does not affect any parking areas or accessways to other buildings. The outdoor unit does not produce any odor, smoke or dust to the environment. The proposed location is on the side and back of the structure, Not on the most visible street side.

Substantial justice will be done.

There is very little gain if any, to the public / surrounding neighbors by denying this variance. Mitsubishi ductless systems are quieter, look better, and use less energy than "window units".

With increasingly warmer summers the need for air conditioning to mitigate indoor temperatures is also increasing.

The values of surrounding properties will not be diminished.

Air conditioning outdoor units are common and not known to diminish surrounding property values.

The Mitsubishi outdoor unit is quiet: Sound pressure level: Heating = 56 dB(A) Cooling = 52 dB(A)

The outdoor unit protrudes only 18" from the West wall and is partially / mostly hidden by two trees depending on the viewing angle.

Literal enforcement of the provisions of the Ordinance would result in an unnecessary hardship.

This property does not have a 10' setback from the property line on any side of the structure unlike the surrounding properties. Due to the lack of a 10' setback the reasonable addition of air conditioning cannot be added in strict conformance with the Ordinance.

Owner's Authorization

8/29/22

To whom it concerns:

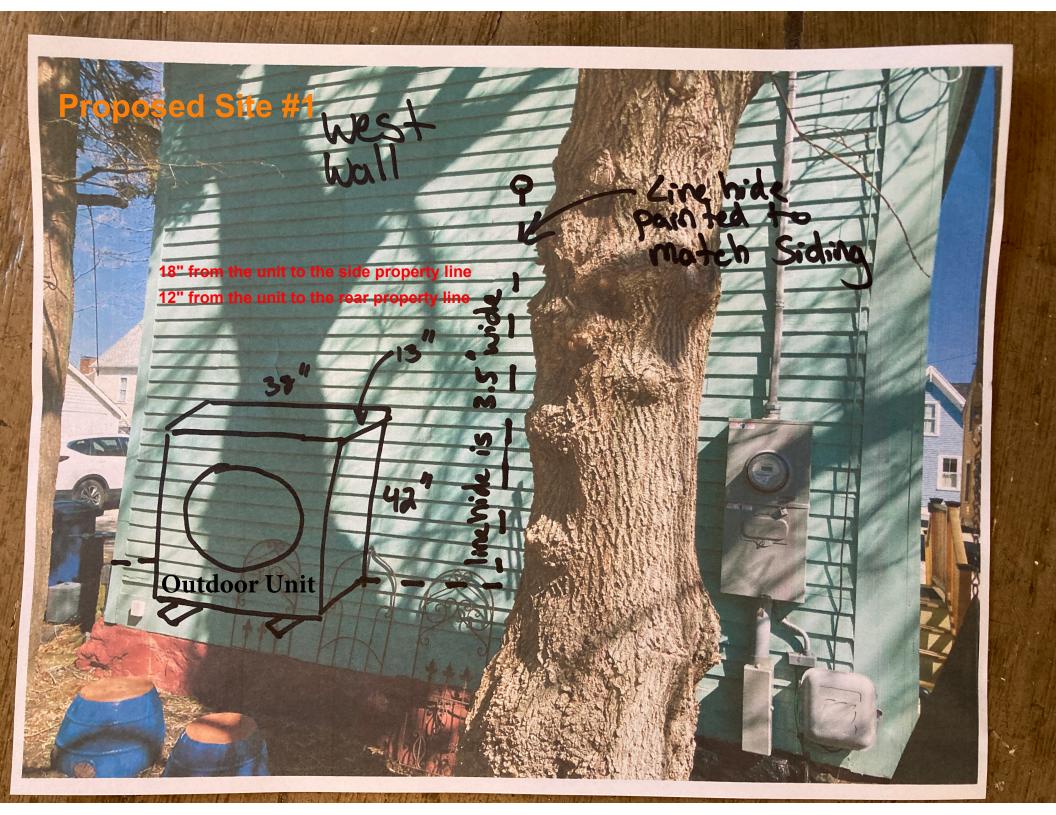
Jay Aucella/Aucella Heating & Cooling is my authorized agent for the proposed air conditioning project at 11 Walden Street, Portsmouth, NH.

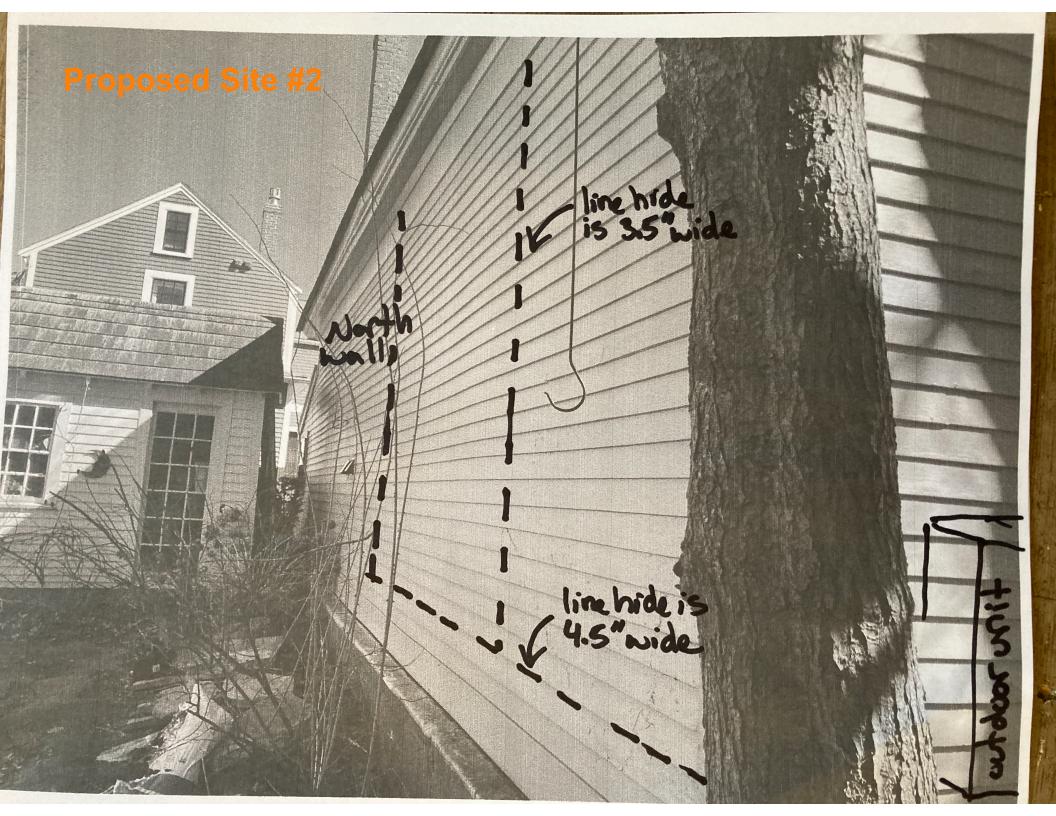
Thank you,

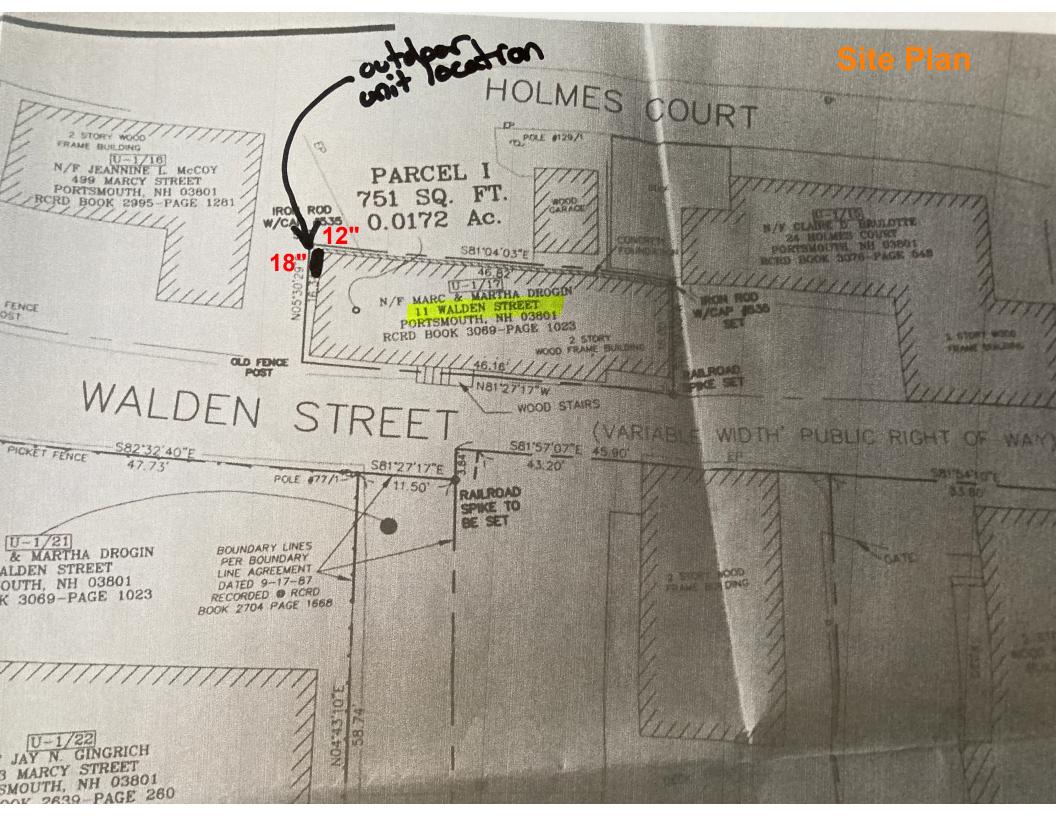
Docusigned by:
Judith d. Mraz

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Judith A. Mraz







MXZ-3C30NA2 MULTI-ZONE INVERTER HEAT-PUMP SYSTEM



Job Name:

System Reference: Date:



FEATURES

- Variable speed INVERTER-driven compressor
- Optional base pan heater
- Quiet outdoor unit operation as low as 56 dB(A)
- · High pressure protection
- Compressor thermal protection
- Compressor overcurrent detection
- Fan motor overheating/voltage protection

SPECIFICATIONS: MXZ-3C30NA2

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

Cooling* (Non-ducted / Ducted) Rated Cap Rated Tota Rated Cap Rated Tota Rated Tota Connectable Capacity Power Sup	Range al Input Range al Input pacity al Input pacity al Input	Btu/h Btu/h W Btu/h Btu/h W Btu/h W Btu/h W Btu/h	28,400 / 27,400 9,500 - 28,400 / 9,500 - 27,400 2,680 / 2,860 28,600 / 27,600 15,500 - 36,000 / 15,500 - 35,000 2,150 / 2,220 16,000 / 15,100 2,120 / 2,140 12,000 - 36,000	
(Non-ducted / Ducted) Rated Tota Rated Cap Heating at 47°F* (Non-ducted / Ducted) Heating at 17°F* (Non-ducted/Ducted) Rated Cap Rated Tota Connectable Capacity	al Input Parage al Input pacity al Input pacity al Input	W Btu/h Btu/h W Btu/h W	2,680 / 2,860 28,600 / 27,600 15,500 - 36,000 / 15,500 - 35,000 2,150 / 2,220 16,000 / 15,100 2,120 / 2,140	
Rated Total Heating at 47°F* (Non-ducted / Ducted) Heating at 17°F* (Non-ducted/Ducted) Rated Total Rated Total Rated Total Rated Total Rated Total Rated Total	Range al Input bacity	Btu/h Btu/h W Btu/h W	28,600 / 27,600 15,500 - 36,000 / 15,500 - 35,000 2,150 / 2,220 16,000 / 15,100 2,120 / 2,140	
Heating at 47°F* (Non-ducted / Ducted) Rated Tota Heating at 17°F* (Non-ducted/Ducted) Rated Cap Rated Tota Connectable Capacity	Range al Input pacity	Btu/h W Btu/h W	15,500 - 36,000 / 15,500 - 35,000 2,150 / 2,220 16,000 / 15,100 2,120 / 2,140	
(Non-ducted / Ducted) Rated Tota Heating at 17°F* (Non-ducted/Ducted) Rated Tota Connectable Capacity	al Input pacity	W Btu/h W	2,150 / 2,220 16,000 / 15,100 2,120 / 2,140	
Heating at 17°F* (Non-ducted/Ducted) Rated Cap Rated Total Connectable Capacity	pacity al Input	Btu/h W	16,000 / 15,100 2,120 / 2,140	
(Non-ducted/Ducted) Rated Total Connectable Capacity	al Input	W	2,120 / 2,140	
Connectable Capacity	•			
	oply	Btu/h	12.000 - 36.000	
Power Sup	only		12,000 00,000	
	-6-7	Voltage, Phase, Hertz	208 / 230V, 1-Phase, 60 Hz	
Electrical Requirements Recomme	nded Fuse/Breaker Size	A	25	
MCA		А	22.1	
Voltage Indoor - O	utdoor S1-S2	V	AC 208 / 230	
	utdoor S2-S3	V	DC ±24	
Compressor	Compressor		INVERTER-driven Scroll Hermetic	
Fan Motor (ECM)		F.L.A.	2.43	
Sound Pressure Level		dB(A)	52	
Heating		dB(A)	56	
External Dimensions (H x W x D)		In mm	31-11/32 x 37-13/32 x 13 (796 x 950 x 330)	
Net Weight		Lbs / kg	137 (62)	
External Finish			Munsell No. 3Y 7.8/11	
	gh Pressure)	In / mm	1/4 (12.7)	
Refrigerant Pipe Size O.D. Gas (Low	Pressure)	In / mm	A: 1/2 (6.35) ; B,C: 3/8 (9.52)	
Max. Refrigerant Line Length		Ft / m	230 (70)	
Max. Piping Length for Each Indoor Unit		Ft / m	82 (25)	
Max. Refrigerant Pipe Height	bove ODU	Ft / m	49 (15)	
Difference If IDU is B	elow ODU	Ft / m	49 (15)	
Connection Method			Flared/Flared	
Refrigerant			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 / 75° F (24° C) WB

Heating at 47°F | Indoor: 70° F (21° C) DB 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

OPERATING RANGE:

	Outdoor
Cooling	14 to 115° F (-10 to 46° C) DB
Heating	5 to 65° F (-15 to 18° C) WB

ENERGY EFFICIENCIES:

Indoor Unit Type	SEER	EER	HSPF	COP @ 47°F	COP @ 17°F
Non-ducted (09+09+12)	19.0	10.6	10.6	3.90	2.77
Ducted and Non-ducted	17.6	10.1	10.1	3.77	2.78
Ducted (09+09+12)	16.2	9.6	9.6	3.64	2.78

NOTES:

For actual capacity performance based on indoor unit type and number of indoor units connected, please refer to MXZ Operational Performance.

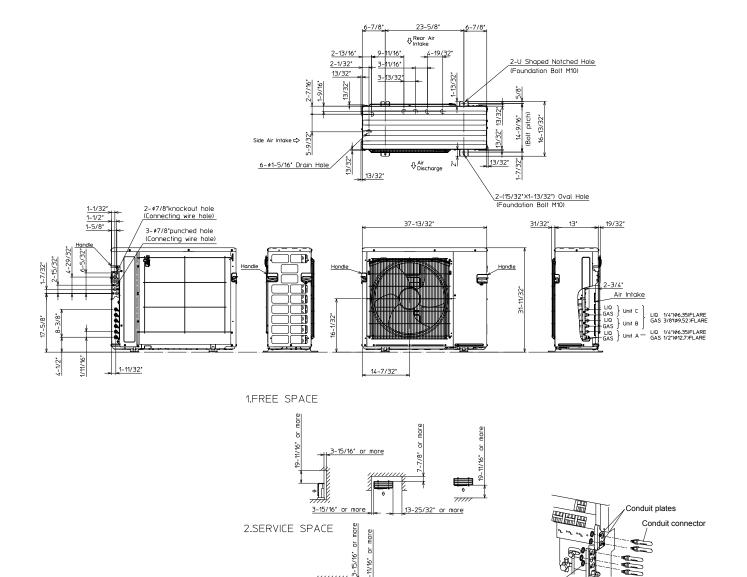
Although the maximum connectable capacity can exceed rated, the outdoor unit cannot provide more than 100% of the rated capacity. Please utilize this over capacity capability for load shedding or applications where it is known that all connected units will NOT be operating at the same time.

OUTDOOR UNIT ACCESSORIES: MXZ-3C30NA2

Air Outlet Guide	Air Outlet Guide (1 Piece)	
All Outlet Guide	· '	PAC-SH96SG-E
Ball Valve	Refrigeration Ball Valve - 1/2"	BV12FFSI2
	Refrigeration Ball Valve - 1/4"	BV14FFSI2
	Refrigeration Ball Valve - 3/8"	BV38FFSI2
	Refrigeration Ball Valve - 5/8"	BV58FFSI2
Distribution pipe for Branch Box	M-NET Converter	PAC-IF01MNT-E
Drain Socket	Drain Socket	PAC-SG60DS-E
Hail Guards	Hail Guard	HG-A9
Mounting Pad	Condensing Unit Mounting Pad: 16" x 36" x 3"	ULTRILITE1
	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	DSD-400P
Optional Defrost Heater	Base Heater	PAC-645BH-E
Port Adapter	Adaptor: 1/2" x 3/8"	MAC-A455JP-E
	Adaptor: 1/2" x 5/8"	MAC-A456JP-E
	Adaptor: 3/8" x 1/2"	MAC-A454JP-E
	Adaptor: 3/8" x 5/8"	PAC-SG76RJ-E
Power Supplies and Auxiliary Components	M-Net Control Wire, 1,000' Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated)	CW162S-1000
Power Supplies And Auxiliary Components	M-Net Control Wire, 250' Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated)	CW162S-250
Stand	18" Single Fan Stand	QSMS1801M
	24" Single Fan Stand	QSMS2401M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket -Stainless Steel Finish	QSWBSS
	Outdoor Unit Stand — 12" High	QSMS1201M

OUTDOOR UNIT DIMENSIONS: MXZ-3C30NA2

Unit: inch



SERVICE SPACE

13-25/32" or more

3-15/16" or more

13-25/32° or more

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









