City of Portsmouth, NH

Attn: Board of Adjustment

This is a request to move our HVAC unit from its current location today to an alternate location that is between our shed and fence. The unit will consist of one Mitsubishi heat pump condenser (40"w x 68"h x 12"d) with a dB(A) 53

A variance is required because the new location is within 10 ft of the property line. The proposed location will place the unit 3'5" from the side property line. The unit will encroach into the setback limits by 6'7".

We believe this request complies with the requirements of the Zoning Ordinance as provided in Article 2 (Section 10.233.20):

### 10.233.21 The variance will not be contrary to the public interest

The placement of the unit will not be visible from any adjacent property since the fence is taller than the unit and blocks the view from the commercial building that is adjacent to our property. The unit therefore will not diminish the character of the neighborhood. The unit is relatively quiet and will be below a 50 dB noise at 3'5" from the property line. There is a driveway that abuts the fence and the fence faces the side of the commercial building.

### 10.233.22 The spirit of the Ordinance will be observed

Protect neighbors from unsightly or otherwise intruding structures. It is shorter than a fence. There is a driveway between us and the next building, which is a commercial building. It is the side of the building with no open windows.

### 10.233.23 Substantial justice will be done

It improves the quality and usefulness of the yard.

### 10.233.24 The values of surrounding properties will not be diminished

The addition of the unit will not diminish the value to the nearby or adjacent properties. Since the unit will be hidden from view, they will not be a detriment to any property's value / an unsightly view or negatively affect the neighborhood's essential characteristics.

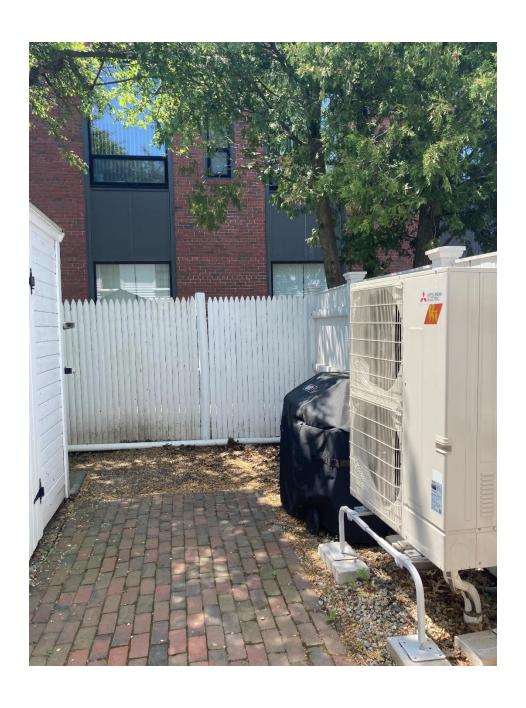
# 10.233.25 Literal enforcement of the provisions of the Ordinance would result in an unnecessary hardship.

Because the current location impedes with the shed and grilling area, the current location on the property makes being around it uncomfortable because there is a lot of airflow.

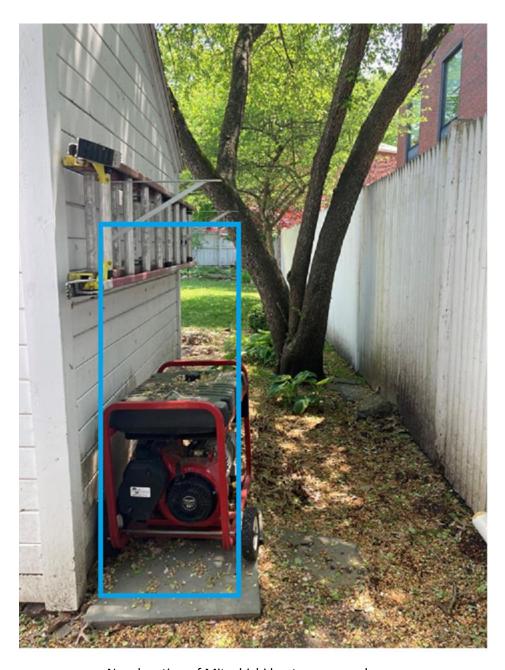
Thank you, Rob Tozier 552 State St Request to approve variance at 552 State St for Mitsubishi heat pump.



Current location of Mitsubishi heat pump condenser—view 1
Unit is not visible from the street



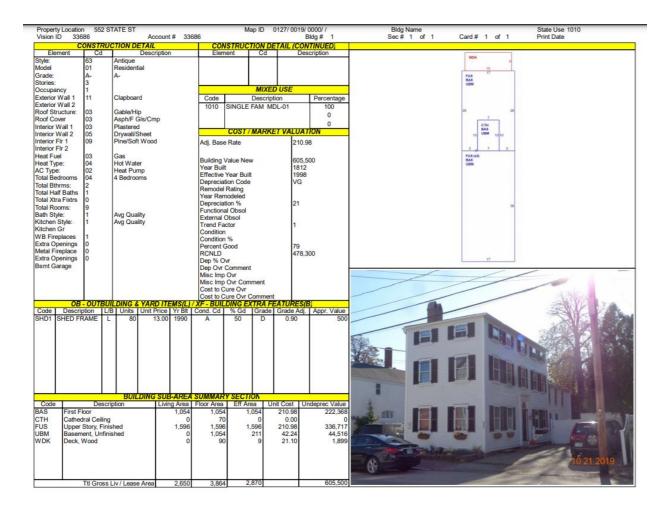
Current location of Mitsubishi heat pump condenser – view 2 Unit is not visible from the street



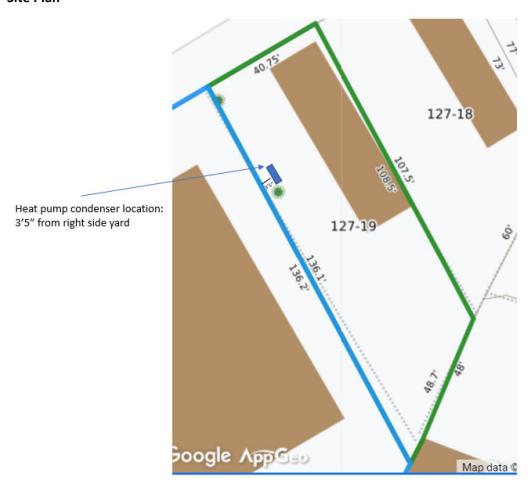
New location of Mitsubishi heat pump condenser

Request to move HVAC unit to side of property. A Mitsubishi heat pump condenser will be placed between our shed and fence with no view from the street. The side of the commercial building is to the right of the fence, separated by the commercial driveway.

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Site Plan



# M-Series

# SUBMITTAL DATA: MXZ-4C36NAHZ MULTI-INDOOR INVERTER HEAT-PUMP SYSTEM



Job Name:

System Reference:





Outdoor Unit: MXZ-4C36NAHZ

#### ACCESSORIES

The outdoor unit is delivered with the base pan heater factory installed.
Airflow Guide (PAC-SH06SG-E)
Three-port Branch Box (PAC-MKA30BC)
Five-port Branch Box (PAC-MKA50BC)

Date:

Distribution Pipe for Flare Connection

(MSDD-50AR; necessary for installing two branch boxes)
Distribution Pipe for Brazed Connection

- (MSDD-50BR; necessary for installing two branch boxes)
3/8" x 1/2" Port Adapter (MAC-A454JP)
1/2" x 3/8" Port Adapter (MAC-A455JP)
1/2" x 5/8" Port Adapter (MAC-A456JP)
1/4" x 3/8" Port Adapter (PAC-493PI)
3/8" x 5/8" Port Adapter (PAC-SG76RJ)

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

	Model Name						
	Unit Type		MXZ-4C36NAHZ				
	Rated Capacity	Btu/h	36,000 / 36,000				
Cooling* (Non-ducted / Ducted)	Capacity Range	Btu/h	15,500 - 36,000				
(Non-ducted / Ducted)	Rated Total Input	w	2,570 / 3,180				
	Rated Capacity	Btu/h	45,000 / 45,000				
Heating at 47°F° (Non-ducted / Ducted)	Capacity Range	Btu/h	22,500 - 45,000				
(Non-addied / Dadied)	Rated Total Input	w	3,340 / 4,250				
	Rated Capacity	Btu/h	34,000 / 36,000				
Heating at 17°F° (Non-ducted/Ducted)	Maximum Capacity	Btu/h	45,000 / 45,000				
(NOT-ducted/Ducted)	Rated Total Input	w	3,500 / 4,590				
Heating at 5°F"	Maximum Capacity	Btu/h	45,000				
Connectable Capacity	<u> </u>	Btu/h	12,000 - 46,800				
	Power Supply	Voltage, Phase, Hertz	208 / 230V, 1-Phase, 60 Hz				
Electrical Requirements	Recommended Fuse/Breaker Size	A	50				
	MCA	A	42				
Malfara	Indoor - Outdoor S1-S2	v	AC 208 / 230				
Voltage	Indoor - Outdoor S2-S3	v	DC ±24				
Compressor			Hermetic				
Fan Motor (ECM)		F.L.A.	0.4+0.4				
Sound Pressure Level	Cooling	dB(A)	49				
Sound Plessure Level	Heating	dB(A)	53				
External Dimensions (H x W x 0	0)	In mm	52-11/16 x 41-11/32 x 13+1 1338 x 1050 x 330+25				
Net Weight		Lbs/kg	276 / 125				
External Finish			Munsell No. 3Y 7.8/11				
Refrieerant Dine Circ O.D.	Liquid (High Pressure)	In / mm	3/8 / 9.52				
Refrigerant Pipe Size O.D.	Gas (Low Pressure)	In / mm	5/8 / 15.88				
Max. Refrigerant Line Length		Ft/m	492 (150)				
Max. Piping Length between ou	tdoor unit and branch boxes	Ft/m	180 (55)				
Max. Piping Length after branch	box	Ft/m	82 (25)				
Max. Total Piping Length betwe	en branch boxes and Indoor units	Ft/m	311 (95)				
Max. Refrigerant Pipe Height	If IDU is Above ODU	Ft/m	131 (40)				
Difference	If IDU is Below ODU	Ft/m	164 (50)				
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 17° 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 | Outdoor: 17° F (-8° C) DB / 15° F (-9° C) WB

Specifications are subject to change without notice.

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