

47 Howard Street

Map 103 Lot 84

To permit the following:

1. Heat Pump with a Rear Setback of +/- 8 feet where 10' is required.

The property owner declares that:

2. The small lot with existing structures & site improvements has few locations to locate the required Heat Pump. Moving it an additional two feet from property line cannot be achieved due to our back patio door & granite steps. The location shown is out of any public view and screened by our six foot tall backyard fencing.

Criteria for the Variance:

1. The Variances are not contrary to the public interest in that this location will have no public view of the Heat Pumps and will be fenced in from the Abutter's rear yard(s).
2. The Variances are consistent with the spirit of the ordinance as noted in Item 1.
3. Substantial justice will be done, as this work will allow the upgrade of the existing mechanical system without impacting the neighborhood.
4. This Variances will not diminish the value of surrounding properties.
5. The special condition of this property is the existing non-conforming Rear Setback (structures on property lines), and room for this unit cannot be created without removal of existing back patio door(s) & granite step(s).

12/9/22, Justin Zeimetz & Sarah Gardent

BACK OF HOUSE

PROPOSED ROUTING OF
EXTERIOR MECHANICAL LINES.

PROPOSED LOCATION OF
EXTERIOR MINI SPLIT UNIT.

EXTERIOR MECHANICAL LINES TO BE
ENCASED & CONCEALED IN WHITE PVC TRIM

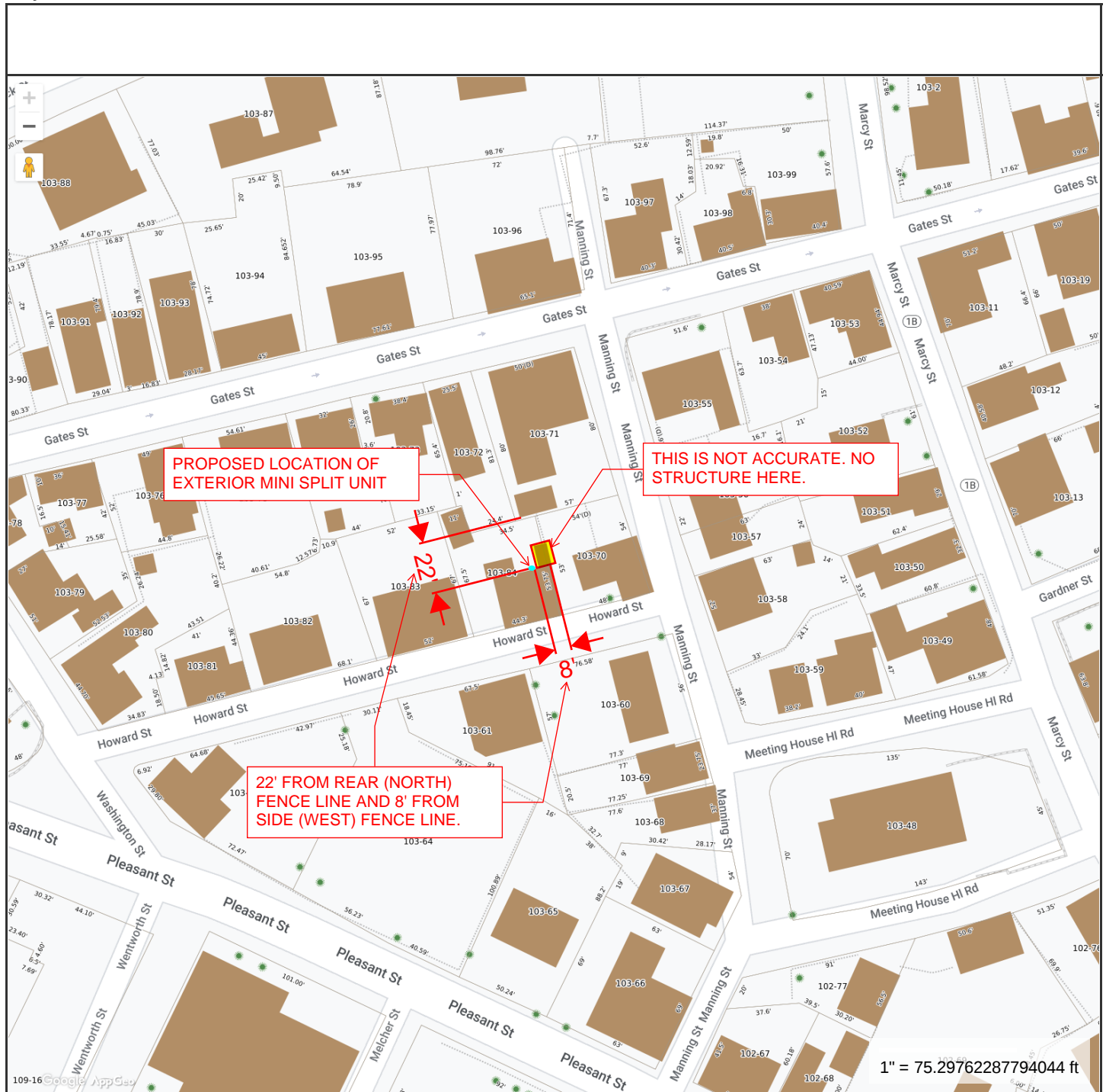


BACK OF HOUSE

PROPOSED ROUTING OF
EXTERIOR MECHANICAL LINES.

EXTERIOR MECHANICAL LINES TO BE
ENCASED & CONCEALED IN WHITE PVC TRIM



**Property Information**

Property ID 0109-0019-0000
Location 290 PLEASANT ST
Owner LIVERMORE CONDO MASTERCARD



**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

City of Portsmouth, NH makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 09/21/2022
 Data updated 3/9/2022

Print map scale is approximate.
 Critical layout or measurement activities should not be done using this resource.

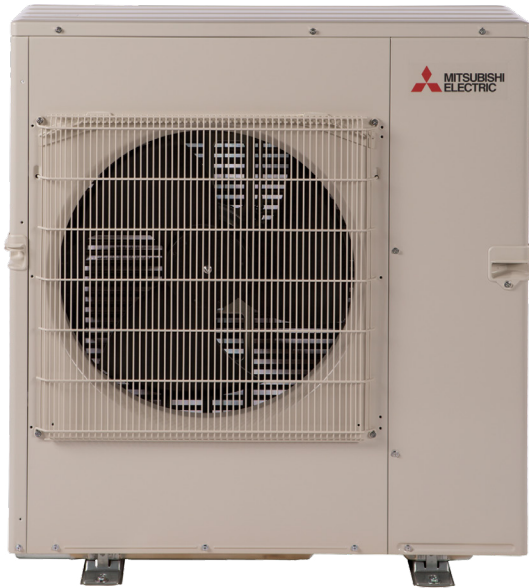
MXZ-5C42NA3 3.5-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM



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-5C42NA3

Cooling ¹ (Non-Ducted // Mix // Ducted)	Maximum Capacity	BTU/H	43,000 // 43,000 // 43,000
	Rated Capacity	BTU/H	40,500 // 39,000 // 37,500
	Minimum Capacity	BTU/H	12,600 // 12,600 // 12,600
	Maximum Power Input	W	4,775 // 4,775 // 4,775
	Rated Power Input	W	4,403 // 4,286 // 4,112
	Power Factor (208V, 230V)	%	98.9, 98.9 // 98.9, 98.9 // 98.9, 98.9
Heating at 47°F ² (Non-Ducted // Mix // Ducted)	Maximum Capacity	BTU/H	53,600 // 53,600 // 53,600
	Rated Capacity	BTU/H	45,000 // 43,000 // 41,000
	Minimum Capacity	BTU/H	11,400 // 11,400 // 11,400
	Maximum Power Input	W	6,160 // 6,160 // 6,160
	Rated Power Input	W	3,575 // 3,519 // 3,463
	Power Factor (208V, 230V)	%	98.1, 98.1 // 98.2, 98.2 // 98.2, 98.2
Heating at 17°F ³ (Non-Ducted // Mix // Ducted)	Maximum Capacity	BTU/H	30,500 // 29,800 // 29,100
	Rated Capacity	BTU/H	24,400 // 23,700 // 23,000
	Maximum Power Input	W	4,750 // 4,991 // 5,231
	Rated Power Input	W	2,943 // 2,906 // 2,869
Heating at 5°F ⁴ (Non-Ducted // Mix // Ducted)	Maximum Capacity	BTU/H	25,000 // 25,000 // 25,000
	Maximum Power Input	W	5,000 // 5,200 // 5,400
Efficiency (Non-Ducted // Mix // Ducted)	SEER		19.7 // 17.4 // 15.2
	EER ¹		9.2 // 9.1 // 9.0
	HSPF (IV)		10.3 // 9.7 // 9.1
	COP at 47°F ²		3.69 // 3.58 // 3.47
	COP at 17°F at Maximum Capacity ³		1.88 // 1.75 // 1.63
	COP at 5°F at Maximum Capacity ⁴		1.47 // 1.42 // 1.36
	ENERGY STAR® Certified		No // No // No
Electrical	Electrical Power Requirements	Voltage, Phase, Frequency	208/230, 1, 60
	Guaranteed Voltage Range	V AC	187-253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Short-circuit Current Rating (SCCR)	kA	5
	Recommended Fuse/Breaker Size	A	40
	Recommended Wire Size	AWG	14
	Minimum Circuit Ampacity	A	32.5
	Maximum Overcurrent Protection	A	40
	Fan Motor Full Load Amperage	A	2.43
Outdoor unit	Airflow Rate (Cooling / Heating)	CFM	2,150 / 2,550
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Heat Exchanger Type		Plate fin coil
	Sound Pressure Level, Cooling ¹	dB(A)	56
	Sound Pressure Level, Heating ²	dB(A)	58
	Compressor Type		DC INVERTER-driven Twin Rotary
	Compressor Model		MNB33FBTMC-L
	Compressor Rated Load Amps	A	20
	Compressor Locked Rotor Amps	A	28.8
	Compressor Oil Type // Charge	oz.	FV50S // 37.2
	Base Pan Heater		Optional
	Unit Dimensions	W: In. [mm]	37-13/32 [950]
		D: In. [mm]	13 [330]
		H: In. [mm]	41-17/64 [1,048]
	Package Dimensions	W: In. [mm]	41-3/8 [1,050]
		D: In. [mm]	17-3/8 [440]
		H: In. [mm]	46-3/4 [1,190]
	Unit Weight	Lbs.[kg]	189 [86]
	Package Weight	Lbs.[kg]	214 [97]
Outdoor unit operating temperature range	Cooling Intake Air Temp (Maximum / Minimum [^])	°FDB	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures	°FDB	10.4 / 14
	Heating Intake Air Temp (Maximum / Minimum)	°FWB	65 / 5
	Heating Thermal Lock-out / Re-start Temperatures	°FDB	1.4 / 5
Refrigerant	Charge	Lbs, oz	8.0, 13.0
	Chargeless Piping Length	Ft. [m]	98.0 [30.0]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.216 [20]

NOTES:

AHRI Rated Conditions

(Rated data is determined at a fixed compressor speed)

¹Cooling (Indoor // Outdoor)

²Heating at 47°F (Indoor // Outdoor)

³Heating at 17°F (Indoor // Outdoor)

°F 80 DB, 67 WB // 95 DB, 75 WB

°F 70 DB, 60 WB // 47 DB, 43 WB

°F 70 DB, 60 WB // 17 DB, 15 WB

Conditions

⁴Heating at 5°F (Indoor // Outdoor)

°F 70 DB, 60 WB // 5 DB, 4 WB

*Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

[^] 5°F DB - 115°F DB when optional wind baffles are installed

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 is 130%, 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.

SPECIFICATIONS: MXZ-5C42NA3

Indoor unit connection	Maximum Number of Connected IDU		5
	Minimum Number of Connected IDU		2
	Minimum connected capacity	BTU/H	12,000
	Maximum connected capacity	BTU/H	51,000
Piping	Liquid Pipe Size O.D. (Flared)	In.[mm]	A,B,C,D,E: 1/4 [A,B,C,D,E: 6.35]
	Gas Pipe Size O.D. (Flared)	In.[mm]	A: 1/2; B,C,D,E: 3/8 [A: 12.72; B,C,D,E: 9.52]
	Total Piping Length	Ft. [m]	262 [80]
	Maximum Height Difference, ODU above IDU	Ft. [m]	49 [15]
	Maximum Height Difference, ODU below IDU	Ft. [m]	49 [15]
	Farthest Piping Length from ODU to IDU	Ft. [m]	82 [25]
	Maximum Number of Bends for IDU		80

NOTES:

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)	¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
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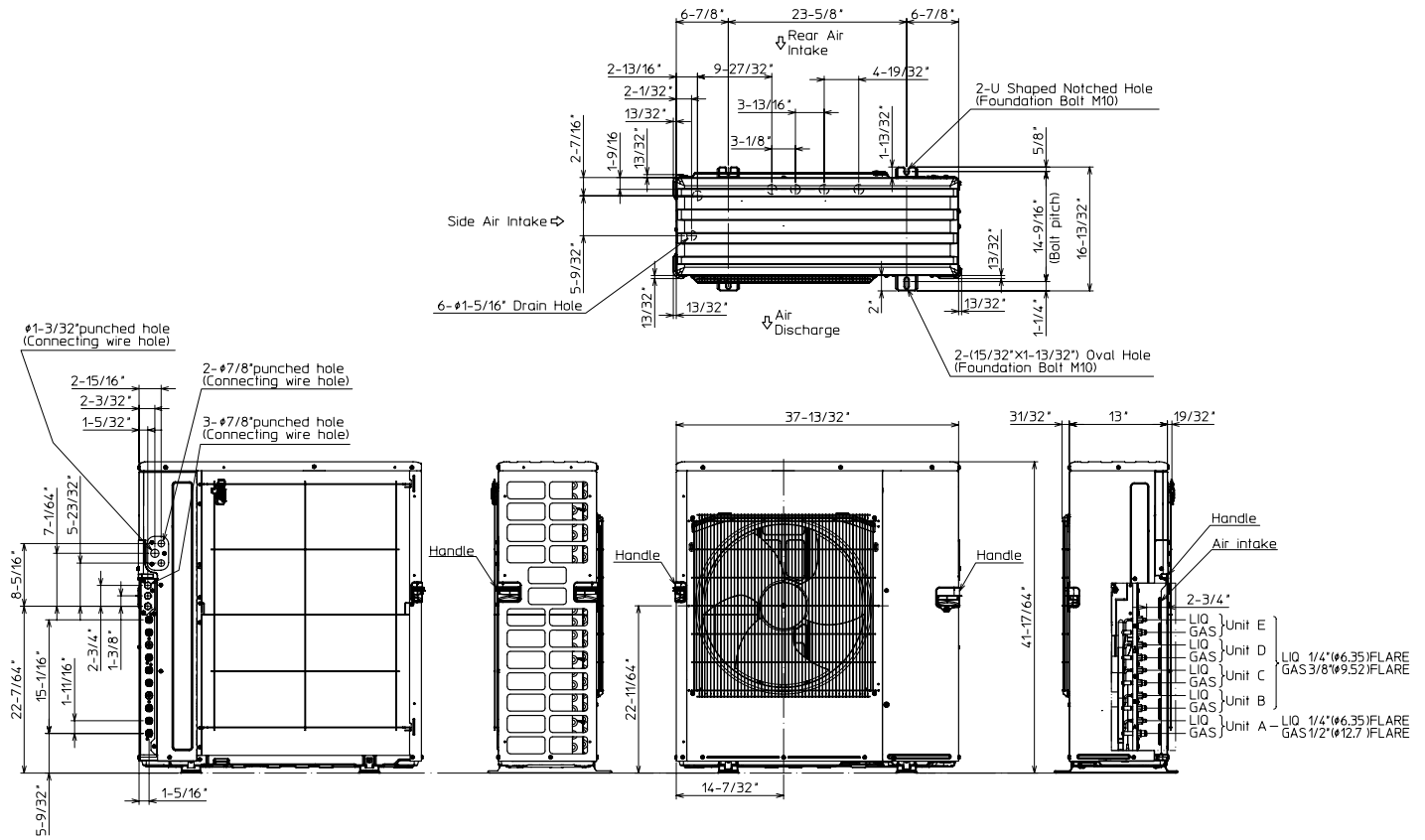
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OUTDOOR UNIT ACCESSORIES: MXZ-5C42NA3

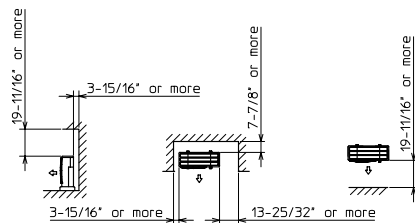
Air Outlet Guide	Air Outlet Guide (1 Piece)	PAC-SH96SG-E
Ball Valve	Refrigeration Ball Valve - 1/2"	BV12FFSI2
	Refrigeration Ball Valve - 1/4"	BV14FFSI2
	Refrigeration Ball Valve - 3/8"	BV38FFSI2
	Refrigeration Ball Valve - 5/8"	BV58FFSI2
Control Wire	M-Net Control Wire, 1,000' Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated)	CW162S-1000
	M-Net Control Wire, 250' Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated)	CW162S-250
Drain Socket	Drain Socket	PAC-SG60DS-E
Hail Guards	Hail Guard	HG-A1
M-NET Converter	M-NET Converter	PAC-IF01MNT-E
Mini-Split Wire	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S144-250
	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	SW144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S144-50
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	SW144-50
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S164-250
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	SW164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S164-50
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	SW164-50
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	Optional Defrost 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
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-5C42NA3

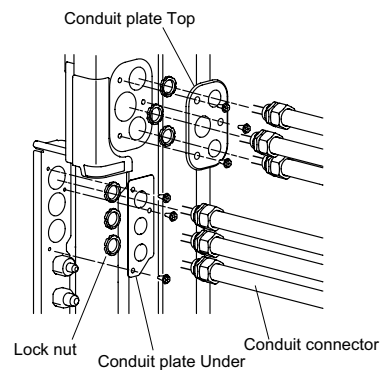
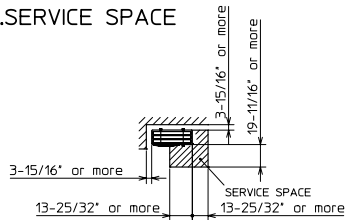
Unit: inch (mm)



1. FREE SPACE



2. SERVICE SPACE



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FORM# MXZ-5C42NA3 - 202206

