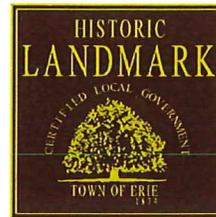


Box below for office use only

Date Received:
Site Address: 645 Holbrook St Erie Co, 80516

Office Mailing Address
 Town of Erie
 Community/Planning Department
 Attn. Erie Historic Preservation Advisory Board
 645 Holbrook Street
 P.P. 750
 Erie, Colorado 80516
 (email) townclerk@erieco.gov



Certificate of Appropriateness Application Form

Property Address:

Applicant: Town of Erie

Owner: Town of Erie

Mailing Address: PO Box 750 Erie Co, 80516

Mailing Address: PO Box 750 Erie Co, 80516

Phone: 303-926-2560

Phone: 303-926-2792

E-Mail: ebanker@erieco.gov

E-Mail: fbuller@erieco.gov

Please check if this is primary contact person

Please check if this is primary contact person

Description of Proposed Work: Install a Mitsubishi M-series, inverter heat pump system on the northern grounds and four cassettes in three different offices at Town Hall. The M-series mini split unit will be installed on the exterior of the northern grounds, just East of the handicap ramp and North of the current Daikin mini split unit. The supply and electrical lines for this unit will run horizontally along the handicap ramp into the building, then encased vertically tight and to the north interior wall from the first floor to the second floor, and finally into the attic. The lines then go into a branch box that will split the system into three different offices, the Town Administrator (2 cassettes) and the two directly South (1 cassette in each). The Daikin system will be relocated 90 degrees to the West to allow sufficient airflow for both systems.

Type of Work: (Check all that apply)

- New Construction:** Construction of a new building, additions, garages, sheds, etc.
- Renovation work:** includes, but is not limited to, all exterior changes to an existing building, windows, doors, roofing, etc.
- Sitework:** Adding landscape features (walks, patios, fencing, retaining walls, etc.)
- Signage:** Installation of a sign on a building or site.
- Demolition:** Removal of any building feature(s) or the razing of any structure (s).
- Other:** _____

Owner's Signature: Date: 12/31/18

By signing this application, I acknowledge that I have reviewed the proposed scope of work and am Responsible for compliance with any Certificate of Appropriateness or Overlay Permit issued for this project. (Owner's Original signature is required for all applications.)

Applicant's Signature: E. A. B. A. Date: 11/14/18

I hereby certify that the proposed work is accurately described and authorized by the owner of record, and I am acting on behalf of the owner to make this application as the authorized agent.

Submission Requirements for Certificate of Appropriateness Form

Your application may require certain drawings. Each application is different and, therefore, may have different drawing requirements. These drawings will help the Historic Preservation Advisory Board (HPAB) understand your proposal. A board member of the HPAB can meet with you to determine which items in the checklist below should be submitted for the Board review.

Once it is determined what should be submitted, the application should be sent to the Community/Planning Department, along with those items, by the application deadline. Additional materials may be requested at any point during the process to insure the HPAB has adequate information for review. **If materials requested fail to be submitted by the deadline, the application will be excluded from the agenda and will not be placed on the agenda until all requests are satisfied.**

New Construction/Room Additions

- All Elevations
- Floor plans
- Site plans
- Wall Section
- Detailed drawings for items such as cornice and gutter construction, porch railing, window trim, dormers and doors.
- Drawings showing new structure in relation to adjacent structures and/or existing building.

Rehabilitation

- Elevations of any façade when new elements are applied.
- Detail drawings of any new elements.
- Photos of rehabilitation area.

Site Changes

- Site plan showing any changes (fences, pools, landscaping, etc.)
- Dimension and details of any fence or any other such site elements.

Demolition

- Digital photos

Notes

For Erie Historic Preservation Advisory Board (EHPAB) Office Use Only

Building Address: 645 Halbrook Date 11/26/18

Received: 11/26/18

Referral

Referral to EHPAB

Meeting Date: 11/26/18

Referral to Board of Trustees

Meeting Date: _____

Comments: _____

EHPAB Recommendation

Date: 11/26/18

Received same

Approve

Approve with Conditions



Comments: _____

Decisions By:

EHPAB-Date: _____

Board of Trustees-Date _____

Final Action

Approve

Approve with Conditions

Disapprove

Community/Planning Department Office Staff

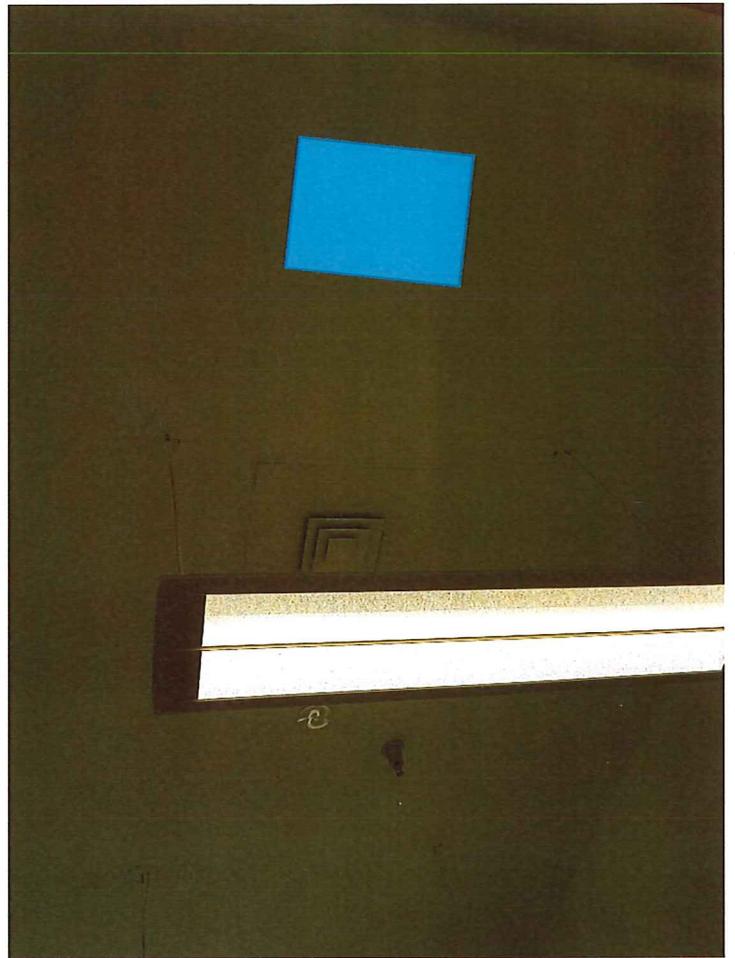
Date _____

*Town Administrators office
(Office 1). Will install two 2'x2'
ceiling cassettes.*

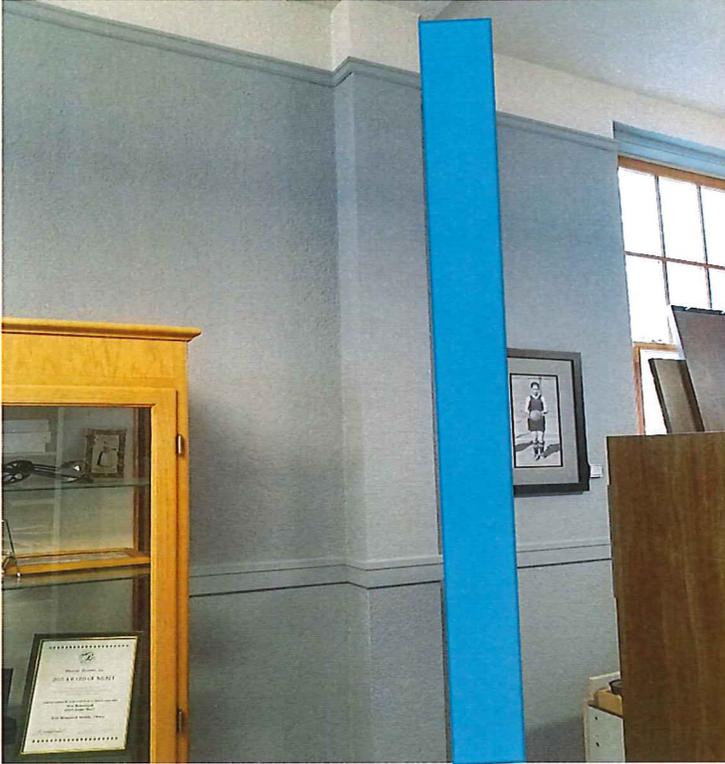


(Office 2) will add one 2'x2' cassette.

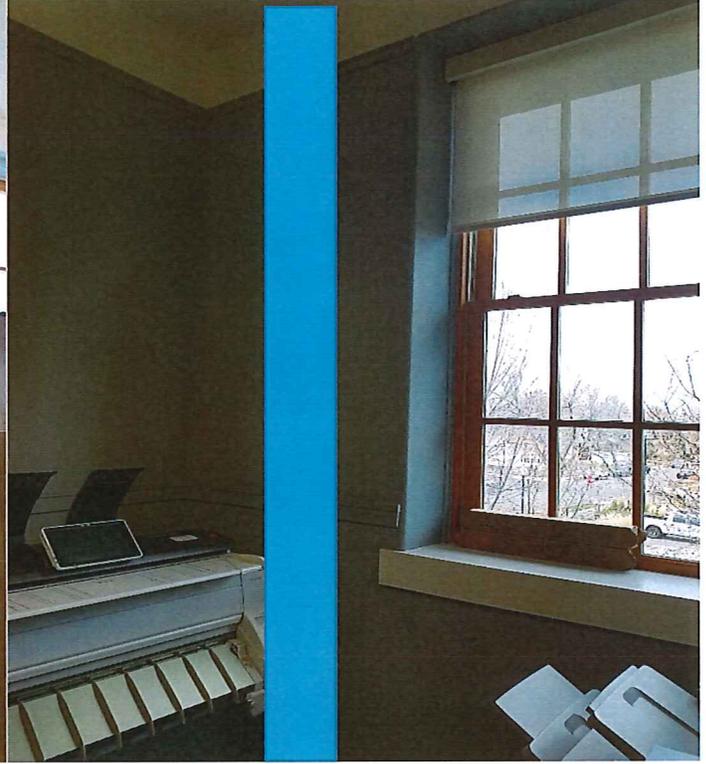
(Office 3) will add one 2'x2' cassette.



Will extend the first floor North chase 12"x 10' and install a 12"x6"x 10' chase on the second floor, in order to enclose the HVAC return lines, supply lines, and electrical for the unit.



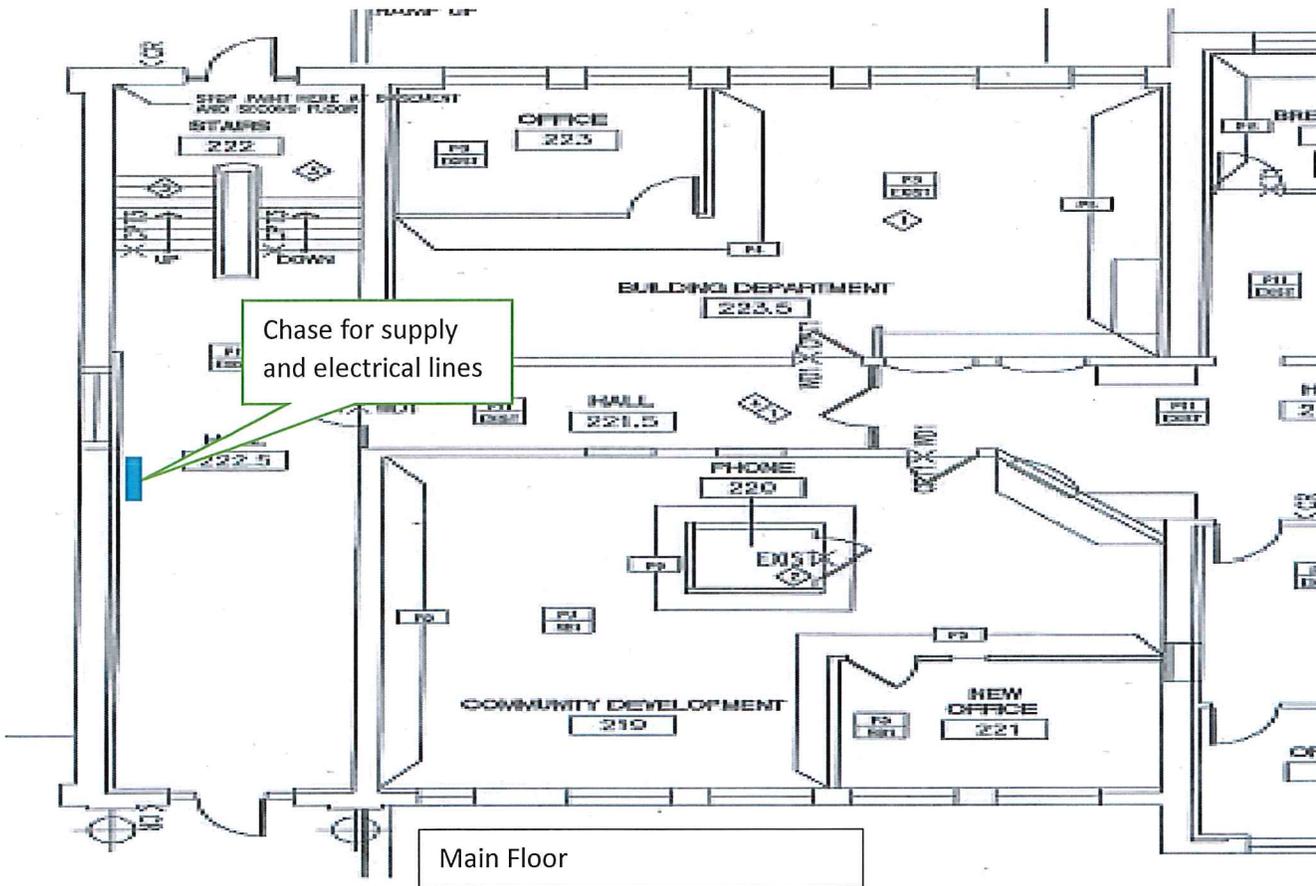
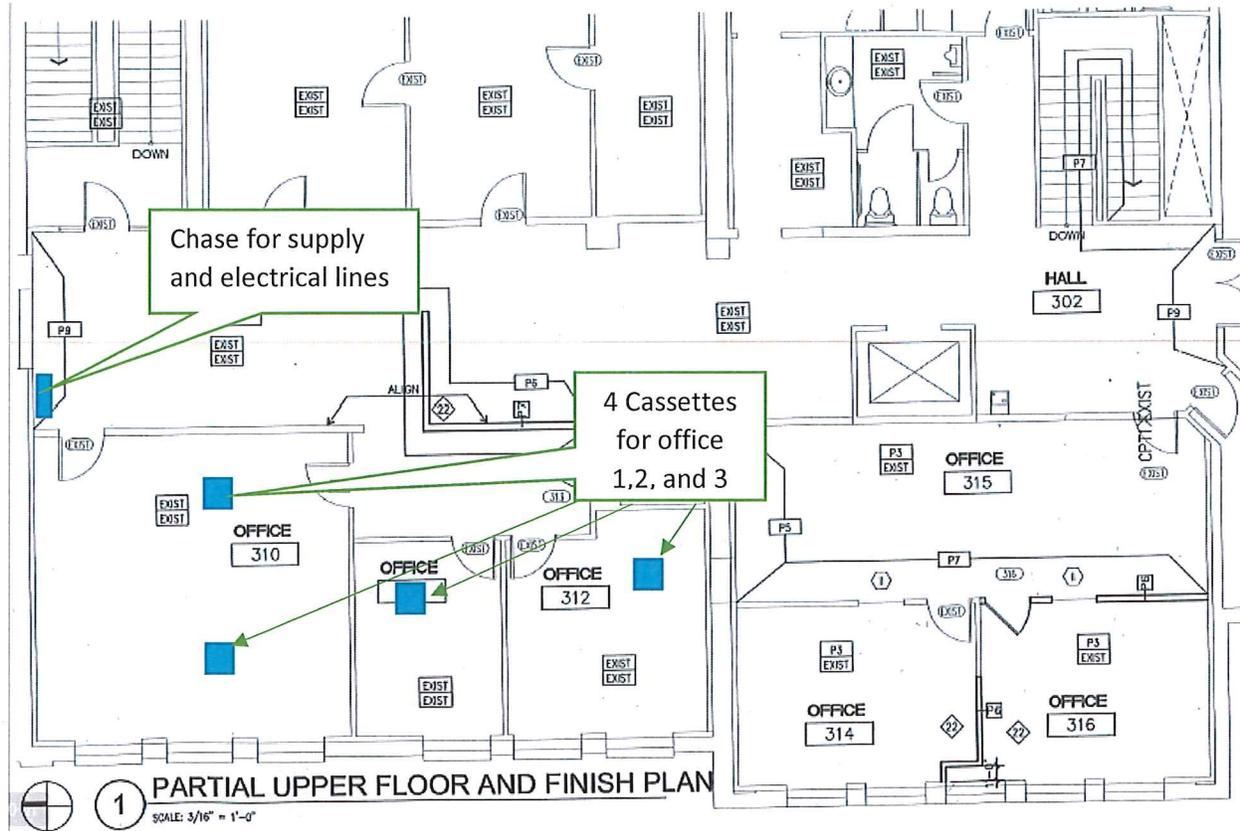
First floor North lobby



Second floor North lobby,



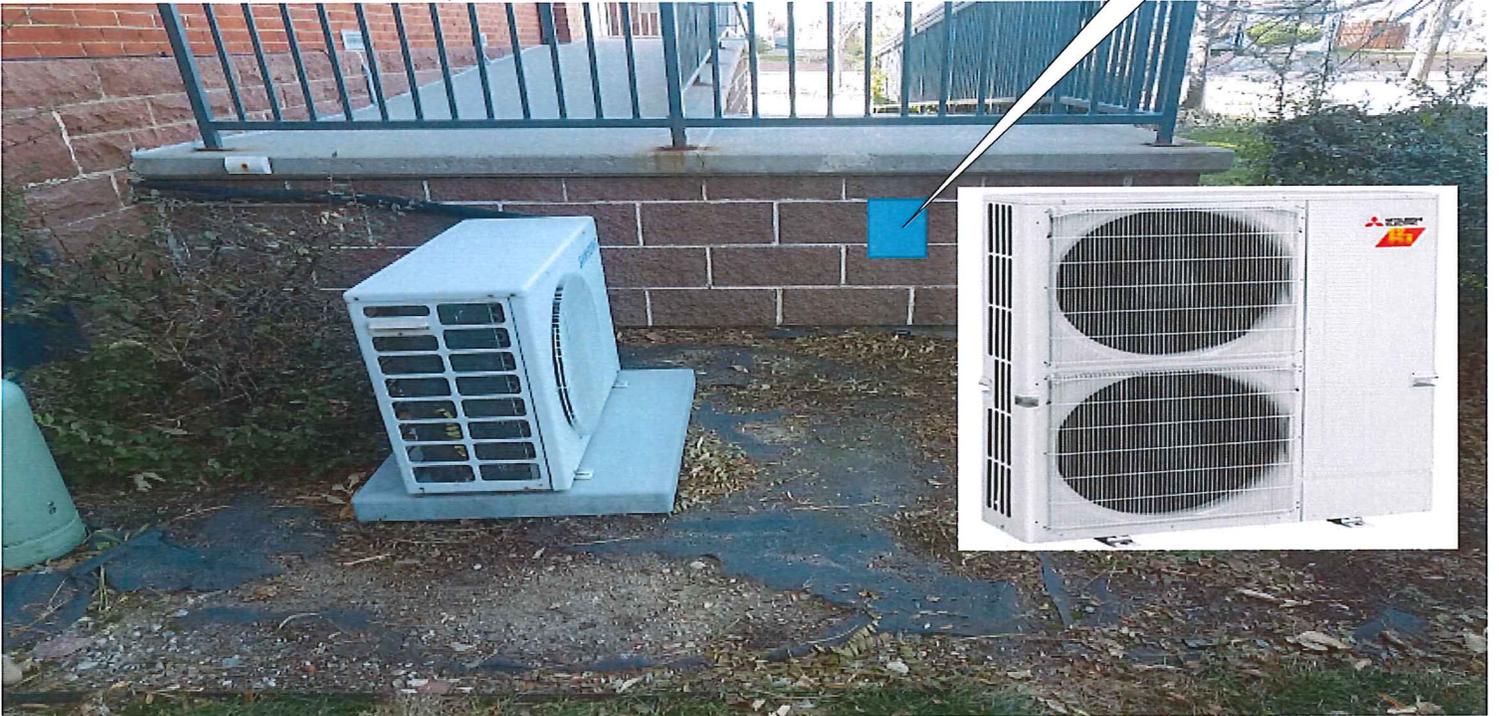
Will cut and repair 3'x3' square hole in ceiling of North basement lobby to install lines and electrical



North exterior of Town Hall

Will install new unit 2'x3'x 32" and electrical disconnect to run north and south then relocate current unit to be in-line with new unit, also running north and south. HVAC and electrical lines will run parallel with existing lines.

Disconnect box
for new unit





Job Name:

System Reference:

Date:



Outdoor Unit: MXZ-5C42NAHZ

ACCESSORIES

The outdoor unit is delivered with the base pan heater factory installed.

- Airflow Guide (PAC-SH96SG-E)
- Three-port Branch Box (PAC-MKA30BC)
- Five-port Branch Box (PAC-MKA50BC)
- 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.)

Specifications			Model Name
Unit Type			MXZ-5C42NAHZ
Cooling* (Non-ducted / Ducted)	Rated Capacity	Btu/h	42,000 / 42,000
	Capacity Range	Btu/h	6,000 - 42,000
	Rated Total Input	W	3,130 / 3,890
Heating at 47°F* (Non-ducted / Ducted)	Rated Capacity	Btu/h	48,000 / 48,000
	Capacity Range	Btu/h	7,200 - 48,000
	Rated Total Input	W	3,430 / 4,350
Heating at 17°F* (Non-ducted/Ducted)	Rated Capacity	Btu/h	35,800 / 36,600
	Maximum Capacity		48,000 / 48,000
	Rated Total Input	W	3,650 / 4,290
Heating at 5°F*	Maximum Capacity	Btu/h	48,000
Energy Star® (ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.)			Yes
Electrical Requirements	Power Supply	Voltage, Phase, Hertz	208 / 230V, 1-Phase, 60 Hz
	Recommended Fuse/Breaker Size	A	50
	MCA	A	42
Voltage	Indoor - Outdoor S1-S2	V	AC 208 / 230
	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)	50
	Heating		54
External Dimensions (H x W x D)		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
Refrigerant Pipe Size O.D.	Liquid (High Pressure)	In / mm	3/8 / 9.52
	Gas (Low Pressure)		5/8 / 15.88
Max. Refrigerant Line Length		Ft / m	492 (150)
Max. Piping Length between outdoor unit and branch boxes		Ft / m	180 (55)
Max. Piping Length after branch box		Ft / m	82 (25)
Max. Total Piping Length between branch boxes and indoor units		Ft / m	311 (95)
Max. Refrigerant Pipe Height Difference	If IDU is Above ODU	Ft / m	131 (40)
	If IDU is Below ODU		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 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

SPECIFICATIONS : MXZ-5C42NAHZ, contd.

OPERATING RANGE:

	Outdoor
Cooling	D.B 23 to 115°F [D.B.-5 to 46°C]*1
Heating	WB. -13 to 59° F [WB. -25 to 15° C]

*1. D.B. 5 to 115° F [D.B. -15 to 46° C], when an optional Air Outlet Guide is installed.

ENERGY EFFICIENCIES:

Indoor Unit Type	SEER	EER	HSPF	COP @ 47°F	COP @ 17°F
Non-ducted	19.0	13.40	11.0	4.10	2.85
Ducted and Non-ducted	17.00	12.11	10.55	3.67	2.68
Ducted	15.0	10.80	10.1	3.23	2.50

NOTES:

- Minimum of two Indoor Units must be connected to the MXZ-5C42NAHZ.
- Minimum installed capacity cannot be less than 12,000 Btu/h.
- Total connected capacity must not exceed 130% of outdoor unit capacity.
- System can operate with only one Indoor Unit turned on.
- Information provided at 208/230V.
- For Reference:
 - MXZ-C Technical & Service Manual for detailed specifications and additional information per Indoor Unit Combination.
 - MXZ Series Multi-Zone Indoor/Outdoor Combination Table for allowed unit combinations.

MVZ CONNECTION RULES:

- Up to 2 MVZ's may be connected to this system*.
- When 2 MVZ's are connected, no additional indoor units can be used*.
- When 1 MVZ is connected, additional indoor units can be connected.
- When 1 MVZ is connected, total connected capacity must not exceed 130%.

*No limitation to the number of units connected when the SPTB1 accessory is used, total connected capacity must not exceed 130% (refer to SPTB1 documentation for more information).

Notes:

MXZ-5C42NAHZ SYSTEM DESIGN

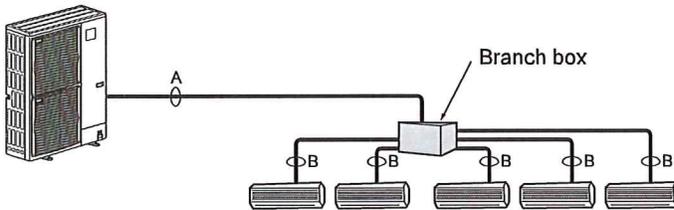
Outdoor unit		MXZ-5C42NAHZ			
		4.5HP			
		Rated capacity (kBTU/h)	Cooling	42	
			Heating	48	
		Refrigerant		R410A	
Connectable indoor unit	Capacity		Type 06 to Type 36		
	Caution: The indoor unit which rated capacity exceeds 36 kBTU/h (Type 36) can NOT be connected.				
	Number of units		2 to 5 units		
Total system wide capacity		29 to 130% of outdoor unit capacity (12 to 54.6 kBTU/h)			
Connectable branch box	Number of units		1 or 2 units		

Branch box	PAC-MKA50BC	PAC-MKA30BC
Number of branches (Indoor unit that can be connected)	5 branches (MAX. 5 units)	3 branches (MAX. 3 units)

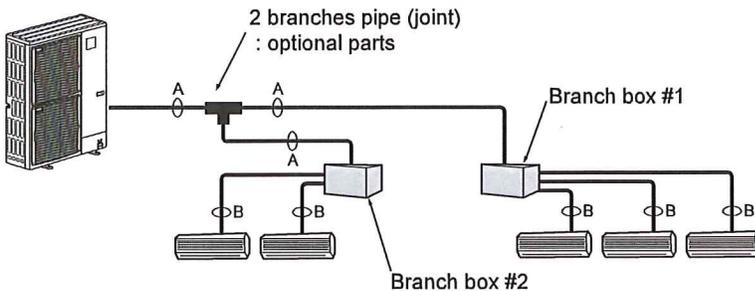
Note: A maximum of 2 branch boxes can be connected to 1 outdoor unit.

Branch Box Combinations	
Three-port	Five-port
1	0
0	1
1	1
2	0
0	2 (Up to 8 IDU)

- If Using One Branch Box
Flare connection employed (No brazing)



- If Using Two Branch Boxes



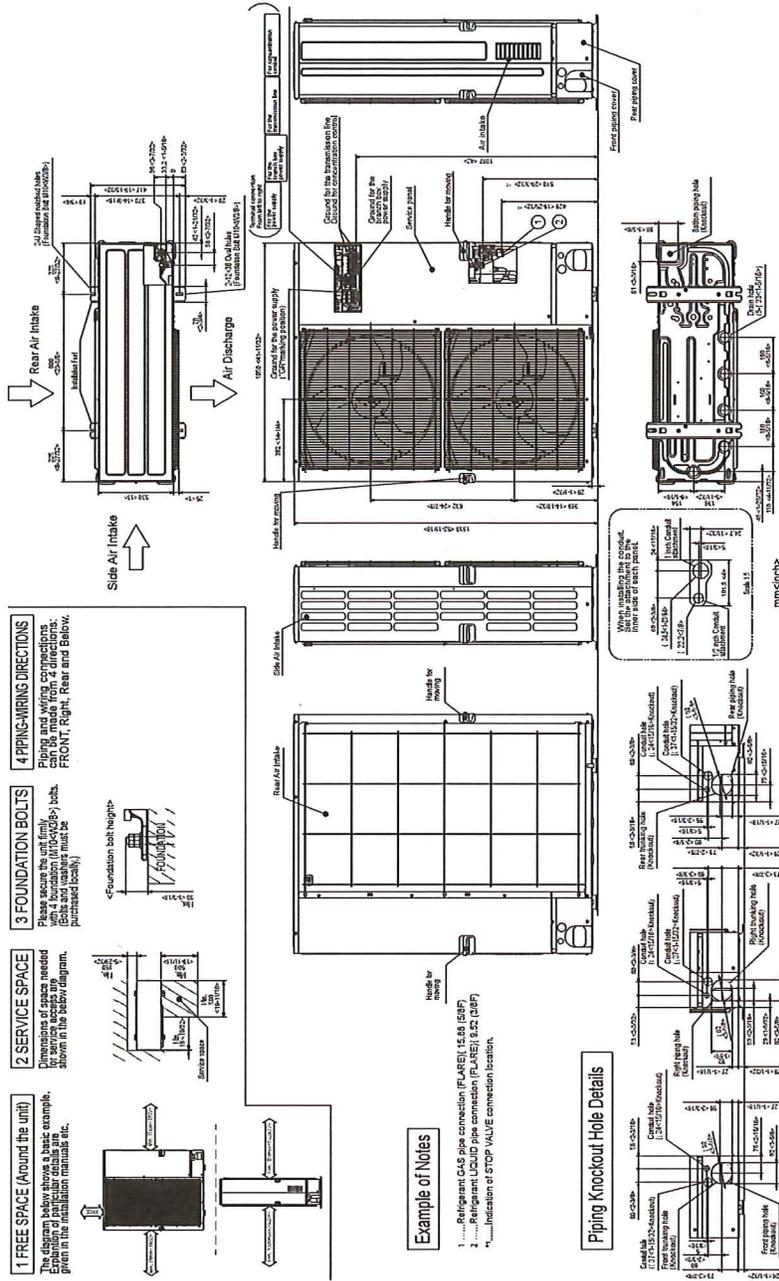
- Installation procedure (2 branches pipe (joint))
Refer to the installation manuals of MSDD-50AR-E and MSDD-50BR-E.

Piping connection size

	A	B
Liquid	$\phi 9.52$ mm (3/8 inch)	The piping connection size differs according to the type and capacity of indoor units. Match the piping connection size of branch box with indoor unit. If the piping connection size of branch box does not match the piping connection size of indoor unit, use optional different-diameter (deformed) joints to the branch box side. (Connect deformed joint directly to the branch box side.)
Gas	$\phi 15.88$ mm (5/8 inch)	

DIMENSIONS: MXZ-5C42NAHZ

Unit: mm <in>



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

