

Job Name:	
System Reference:	Date:



Indoor Unit: MSZ-GL09NA-U1



Wireless Remote Controller



Outdoor Unit: MUZ-GL09NA-U8

## ACCESSORIES:

### Indoor Unit

- ☐ Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- ☐ Condensate Pump (Sauermann SI30-115/230; 115/230V)
- ☐ Anti-Allergy Enzyme Filter (MAC-408FT-E)
- ☐ Drain Pan Level Sensor (DPLS2)

### Outdoor Unit

- ☐ Outdoor Mounting Pad (ULTRILITE1)
- ☐ Drain Pan Heater (MAC-640BH-U)
- ☐ 3-1/4" Mounting Base [Pair] (DSD-400P)
- ☐ Drain Pan Socket (MAC-860DS)
- ☐ Air Outlet Guide (MAC-889SG)
- ☐ Wall Mounting Bracket (QSWB2000M-1)

### Controls

- ☐ Wireless Controller (MHK1)
- ☐ Wired Remote Controller PAR-31MAA (Requires MAC-333IF-E)
- ☐ Wireless Interface for kumo cloud™ (PAC-WHS01WF-E)
- ☐ Thermostat Interface (PAC-US444CN-1)

## SPECIFICATIONS:

Rated Conditions (Capacity / Input)		
Cooling <sup>1</sup>	Btu/h / W	9,000 / 585
Heating at 47° F <sup>2</sup>	Btu/h / W	10,900 / 720

Capacity Range		Minimum	Maximum
Cooling <sup>1</sup>	Btu/h	3,600	12,200
Heating at 47° F <sup>2</sup>	Btu/h	4,500	14,100
Heating at 17° F <sup>3</sup>	Btu/h	-	9,400
Heating at 5° F <sup>4</sup>	Btu/h	-	7,600

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

Operating Conditons (Indoor Intake Air Temp.) (Max./ Min.)	
Cooling <sup>2</sup>	90° F (32° C) DB / 67° F (19° C) DB
Heating	80° F (27° C) DB / 70° F (21° C) DB

Operating Conditons (Outdoor Intake Air Temp.) (Max./ Min.)	
Cooling <sup>5</sup>	115 F (46° C) DB / 14° F (-10° C) DB
Heating	75° F (24° C) DB / -4° F (-20° C) DB**

<sup>5</sup> Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.  
<sup>\*\*</sup> System cuts out at -9° F (-27° C) to avoid thermistor error and automatically restarts at -4° F (-20° C).

AHRI Efficiency Ratings	
SEER / HSPF	24.6 / 12.8
COP at 47° F / 17° F	4.44 / 3.3

Energy Star®	Yes
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ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.

Specifications are subject to change without notice.

Electrical Power Requirements	208 / 230V, 1-Phase, 60 Hz
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Minimum Circuit Ampacity (MCA)		
Indoor / Outdoor	A	1 / 9

Indoor Unit		
Blower Motor (ECM)	F.L.A.	0.76
Blower Motor Output	W	30
SHF / Moisture Removal		0.820 / 1.5 pt./h
Field Drainpipe Size O.D.	In.(mm)	5/8 (15)

Outdoor Unit		
Compressor		DC INVERTER-driven Twin Rotary
Fan Motor (ECM)	F.L.A.	0.76

Airflow Rate (Quiet - Lo - Med - Hi - Super Hi)			
Indoor (Cooling)	DRY	CFM	145-170-237-321-399
	WET		109-134-201-286-364
Indoor (Heating)	DRY		145-170-237-321-406
Outdoor			1,229 / 1,172

Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi)			
Indoor	Cooling	dB(A)	19-22-30-37-43
	Heating		19-22-30-37-43
Outdoor	Cooling		48
	Heating		50

External Dimensions		
Indoor (H x W x D)	In.(mm)	11-5/8 x 31-7/16 x 9-1/8 (295 x 798 x 232)
Outdoor (H x W x D)		21-5/8 x 31-1/2 x 11-1/4 (550 x 800 x 285)

Net Weight		
Indoor	Lbs.(kg)	22 (10)
Outdoor		81 (37)

External Finish	
Indoor	Munsell 1.0Y 9.2 / 0.2
Outdoor	Munsell No. 3Y 7.8 / 1.1

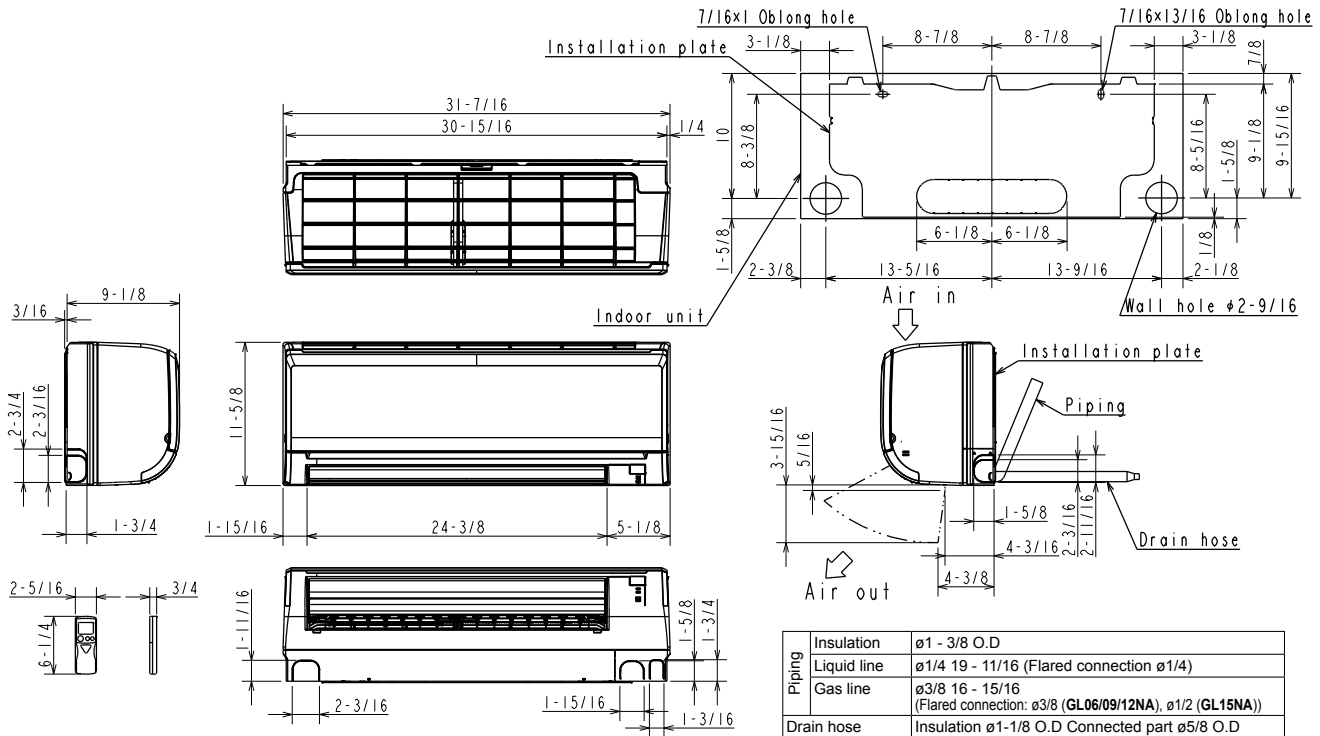
Refrigerant	R410A; 2 lb. 9 oz.
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Refrigerant Piping (Flared)		
Liquid (High Pressure)	In.(mm)	1/4 (6.35)
Gas (Low Pressure)		3/8 (9.52)
Max. Total Refrigerant Pipe Length (Height Diff.)	Ft. (m)	40 (12)
Max. Total Refrigerant Pipe Length (Length.)		65 (20)

# DIMENSIONS: MSZ-GL09NA-U1 & MUZ-GL09NA-U8

## MSZ-GL09NA-U1

Unit: in. (mm)

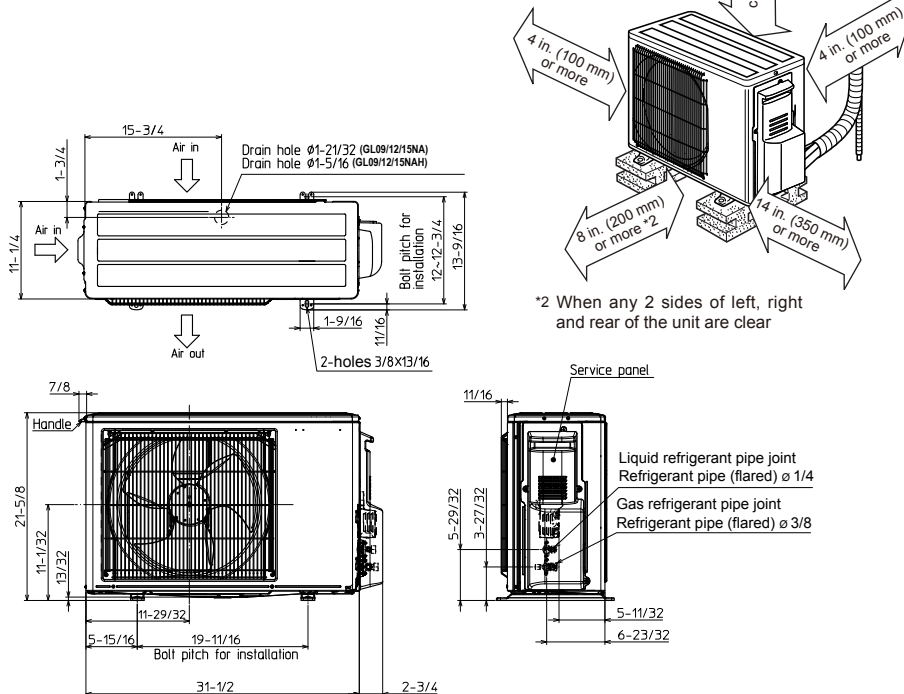


## MUZ-GL09NA-U8

### REQUIRED SPACE

Unit: in. (mm)

\*1 4 in. (100 mm) or more when front and sides of the unit are clear



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1340 Satellite Boulevard, Suwanee, GA 30024  
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Job Name:	
System Reference:	Date:



Indoor Unit: MSZ-GL12NA-U1



Wireless Remote Controller



Outdoor Unit: MUZ-GL12NA-U1

**ACCESSORIES:****Indoor Unit**

- ☐ Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- ☐ Condensate Pump (Sauermann SI30-115/230; 115/230V)
- ☐ Anti-Allergy Enzyme Filter (MAC-408FT-E)
- ☐ Drain Pan Level Sensor (DPLS2)

**Outdoor Unit**

- ☐ Outdoor Mounting Pad (ULTRILITE1)
- ☐ Drain Pan Heater (MAC-640BH-U)
- ☐ 3-1/4" Mounting Base [Pair] (DSD-400P)
- ☐ Drain Pan Socket (MAC-860DS)
- ☐ Air Outlet Guide (MAC-889SG)
- ☐ Wall Mounting Bracket (QSWB2000M-1)

**Controls**

- ☐ Wireless Controller (MHK1)
- ☐ Wired Remote Controller PAR-31MAA (Requires MAC-333IF-E)
- ☐ Wireless Interface for kumo cloud™ (PAC-WHS01WF-E)
- ☐ Thermostat Interface (PAC-US444CN-1)

**SPECIFICATIONS:**

Rated Conditions (Capacity / Input)		
Cooling <sup>1</sup>	Btu/h / W	12,000 / 920
Heating at 47° F <sup>2</sup>	Btu/h / W	14,400 / 1,100

Capacity Range		Minimum	Maximum
Cooling <sup>1</sup>	Btu/h	1,500	13,600
Heating at 47° F <sup>2</sup>	Btu/h	2,000	18,100
Heating at 17° F <sup>3</sup>	Btu/h	-	12,000
Heating at 5° F <sup>4</sup>	Btu/h	-	9,700

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

\* Rating Conditions per AHRI Standard:

Operating Conditons (Indoor Intake Air Temp.) (Max./ Min.)	
Cooling <sup>2</sup>	90° F (32° C) DB / 67° F (19° C) DB
Heating	80° F (27° C) DB / 70° F (21° C) DB

Operating Conditons (Outdoor Intake Air Temp.) (Max./ Min.)	
Cooling <sup>5</sup>	115 F (46° C) DB / 14° F (-10° C) DB
Heating	75° F (24° C) DB / -4° F (-20° C) DB**

<sup>5</sup> Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

\*\* System cuts out at -9° F (-27° C) to avoid thermistor error and automatically restarts at -4° F (-20° C).

AHRI Efficiency Ratings	
SEER / HSPF	23.1 / 12.5
COP at 47° F / 17° F	3.84 / 3.1

<b>Energy Star®</b>	Yes
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Specifications are subject to change without notice.

<b>Electrical Power Requirements</b>	208 / 230V, 1-Phase, 60 Hz
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Minimum Circuit Ampacity (MCA)		
Indoor / Outdoor	A	1 / 9

Indoor Unit		
Blower Motor (ECM)	F.L.A.	0.76
Blower Motor Output	W	30
SHF / Moisture Removal		0.740 / 2.5 pt./h
Field Drainpipe Size O.D.	In.(mm)	5/8 (15)

Outdoor Unit		
Compressor		DC INVERTER-driven Twin Rotary
Fan Motor (ECM)	F.L.A.	0.5

Airflow Rate (Quiet - Lo - Med - Hi - Super Hi)			
Indoor (Cooling)	DRY	CFM	145-170-237-321-399
	WET		109-134-201-286-364
Indoor (Heating)	DRY		145-170-237-321-406
Outdoor			1,229 / 1,172

Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi)			
Indoor	Cooling	dB(A)	19-22-30-37-45
	Heating		19-22-30-37-43
Outdoor	Cooling		49
	Heating		51

External Dimensions		
Indoor (H x W x D)	In.(mm)	11-5/8 x 31-7/16 x 9-1/8 (295 x 798 x 232)
Outdoor (H x W x D)		21-5/8 x 31-1/2 x 11-1/4 (550 x 800 x 285)

Net Weight		
Indoor	Lbs.(kg)	22 (10)
Outdoor		81 (37)

External Finish	
Indoor	Munsell 1.0Y 9.2 / 0.2
Outdoor	Munsell No. 3Y 7.8 / 1.1

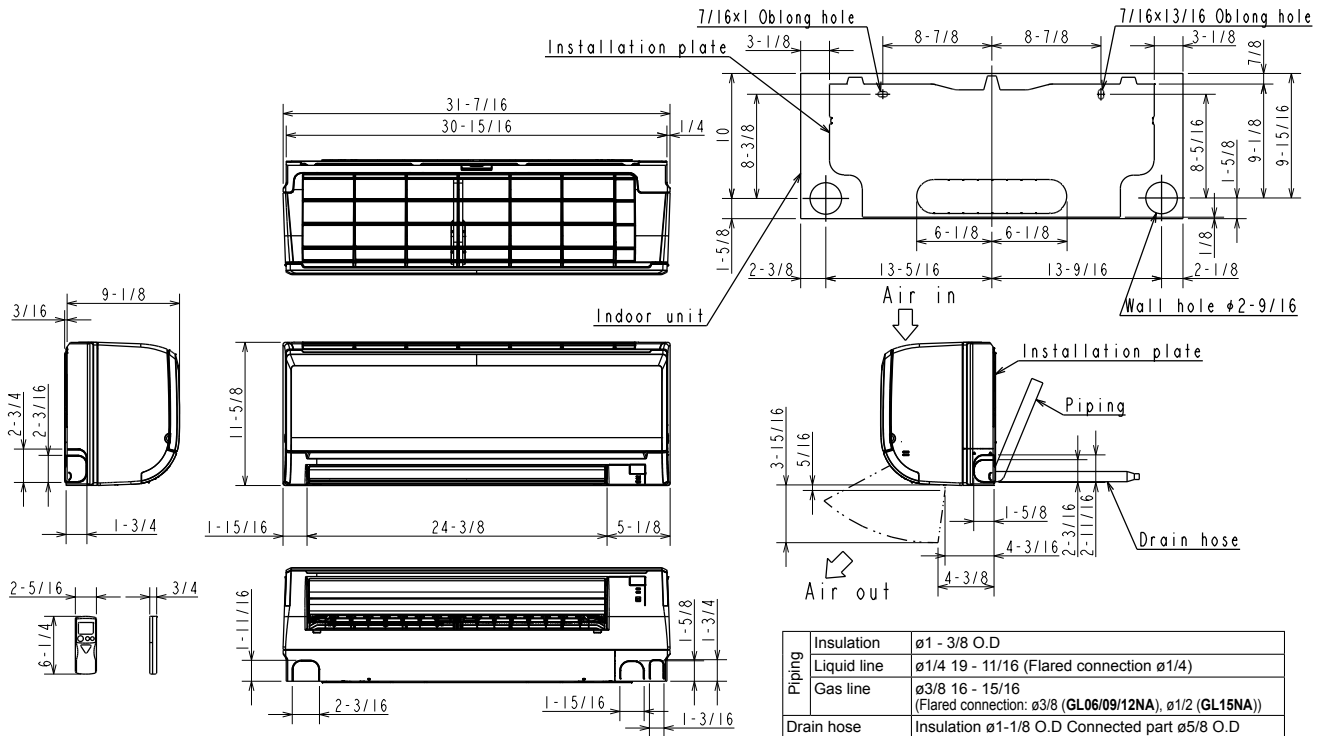
<b>Refrigerant</b>	R410A; 2 lb. 9 oz.
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Refrigerant Piping (Flared)		
Liquid (High Pressure)	In.(mm)	1/4 (6.35)
Gas (Low Pressure)		3/8 (9.52)
Max. Total Refrigerant Pipe Length (Height Diff.)	Ft. (m)	40 (12)
Max. Total Refrigerant Pipe Length (Length.)		65 (20)

# DIMENSIONS: MSZ-GL12NA-U1 & MUZ-GL12NA-U1

## MSZ-GL12NA-U1

Unit: in. (mm)

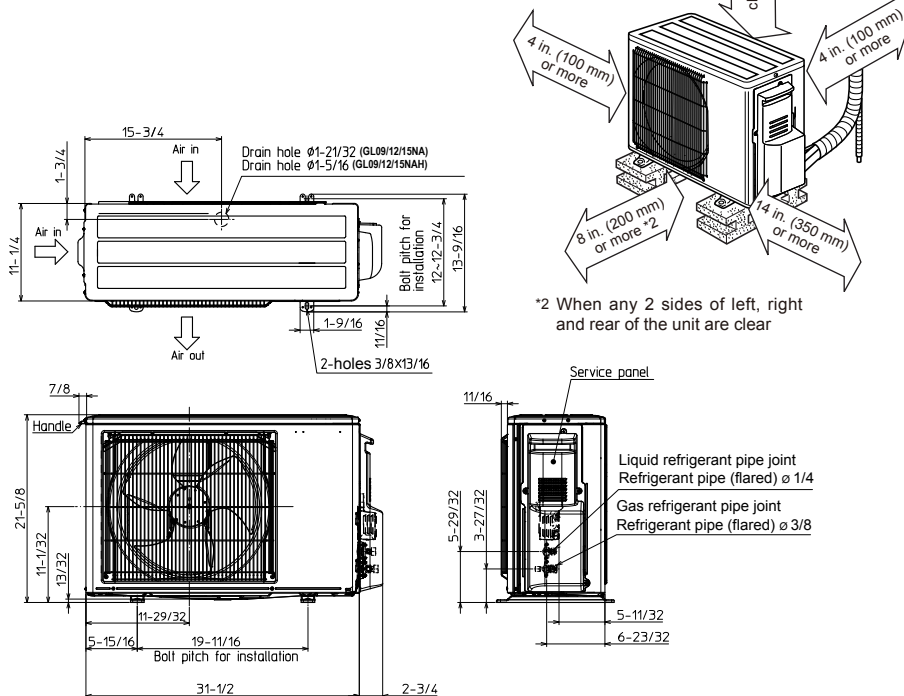


## MUZ-GL12NA-U1

### REQUIRED SPACE

Unit: in. (mm)

\*1 4 in. (100 mm) or more when front and sides of the unit are clear



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Job Name:	
System Reference:	Date:



Indoor Unit: MSZ-GL15NA-U1



Wireless Remote Controller



Outdoor Unit: MUZ-GL15NA-U1

## ACCESSORIES:

### Indoor Unit

- ☐ Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- ☐ Condensate Pump (Sauermann SI30-115/230; 115/230V)
- ☐ Anti-Allergy Enzyme Filter (MAC-408FT-E)
- ☐ Drain Pan Level Sensor (DPLS2)

### Outdoor Unit

- ☐ Outdoor Mounting Pad (ULTRILITE1)
- ☐ Drain Pan Heater (MAC-640BH-U)
- ☐ 3-1/4" Mounting Base [Pair] (DSD-400P)
- ☐ Drain Pan Socket (MAC-860DS)
- ☐ Air Outlet Guide (MAC-889SG)
- ☐ Wall Mounting Bracket (QSWB2000M-1)

### Controls

- ☐ Wireless Controller (MHK1)
- ☐ Wired Remote Controller PAR-31MAA (Requires MAC-333IF-E)
- ☐ Wireless Interface for kumo cloud™ (PAC-WHS01WF-E)
- ☐ Thermostat Interface (PAC-US444CN-1)

## SPECIFICATIONS:

Rated Conditions (Capacity / Input)		
Cooling <sup>1</sup>	Btu/h / W	14,000 / 1,080
Heating at 47° F <sup>2</sup>	Btu/h / W	18,000 / 1,600

Capacity Range		Minimum	Maximum
Cooling <sup>1</sup>	Btu/h	3,100	18,200
Heating at 47° F <sup>2</sup>	Btu/h	4,800	20,900
Heating at 17° F <sup>3</sup>	Btu/h	-	16,400
Heating at 5° F <sup>4</sup>	Btu/h	-	13,700

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

Operating Conditons (Indoor Intake Air Temp.) (Max./ Min.)	
Cooling <sup>2</sup>	90° F (32° C) DB / 67° F (19° C) DB
Heating	80° F (27° C) DB / 70° F (21° C) DB

Operating Conditons (Outdoor Intake Air Temp.) (Max./ Min.)	
Cooling <sup>5</sup>	115 F (46° C) DB / 14° F (-10° C) DB
Heating	75° F (24° C) DB / -4° F (-20° C) DB**

<sup>5</sup> Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.  
 \*\* System cuts out at -9° F (-27° C) to avoid thermistor error and automatically restarts at -4° F (-20° C).

AHRI Efficiency Ratings	
SEER / HSPF	21.6 / 11.7
COP at 47° F / 17° F	3.3 / 3.0

Energy Star®	Yes
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Specifications are subject to change without notice.

Electrical Power Requirements	208 / 230V, 1-Phase, 60 Hz
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Minimum Circuit Ampacity (MCA)		
Indoor / Outdoor	A	1 / 10

Indoor Unit		
Blower Motor (ECM)	F.L.A.	0.76
Blower Motor Output	W	30
SHF / Moisture Removal		0.80 / 2.7 pt./h
Field Drainpipe Size O.D.	In.(mm)	5/8 (15)

Outdoor Unit		
Compressor		DC INVERTER-driven Twin Rotary
Fan Motor (ECM)	F.L.A.	0.5

Airflow Rate (Quiet - Lo - Med - Hi - Super Hi)			
Indoor (Cooling)	DRY	CFM	205-272-335-420-533
	WET		170-237-300-385-498
Indoor (Heating)	DRY		205-247-304-367-463
Outdoor			1,243 / 1,229

Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi)			
Indoor	Cooling	dB(A)	26-32-38-44-49
	Heating		26-30-35-40-46
Outdoor	Cooling		49
	Heating		51

External Dimensions		
Indoor (H x W x D)	In.(mm)	11-5/8 x 31-7/16 x 9-1/8 (295 x 798 x 232)
Outdoor (H x W x D)		21-5/8 x 31-1/2 x 11-1/4 (550 x 800 x 285)

Net Weight		
Indoor	Lbs.(kg)	22 (10)
Outdoor		81 (37)

External Finish	
Indoor	Munsell 1.0Y 9.2 / 0.2
Outdoor	Munsell No. 3Y 7.8 / 1.1

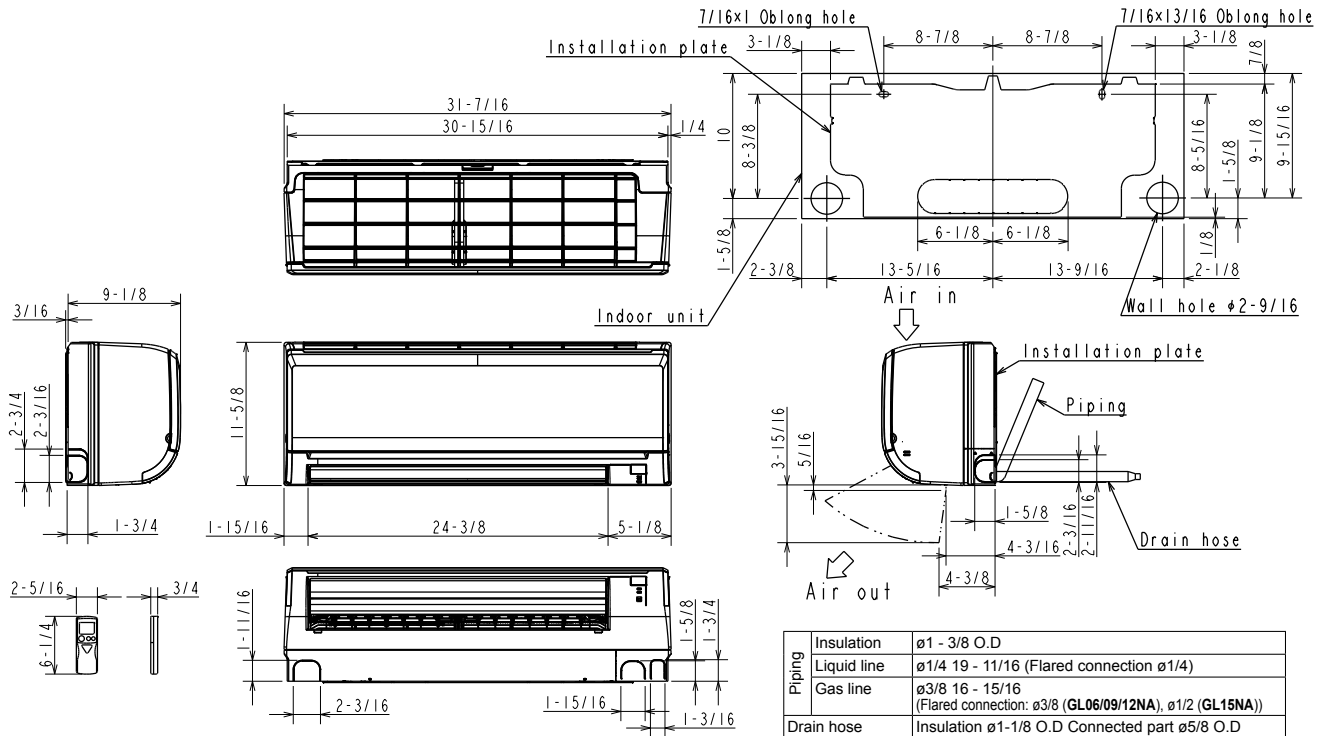
Refrigerant	R410A; 2 lb. 9 oz.
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Refrigerant Piping (Flared)		
Liquid (High Pressure)	In.(mm)	1/4 (6.35)
Gas (Low Pressure)		1/2 (12.7)
Max. Total Refrigerant Pipe Length (Height Diff.)	Ft. (m)	40 (12)
Max. Total Refrigerant Pipe Length (Length.)		65 (20)

# DIMENSIONS: MSZ-GL15NA-U1 & MUZ-GL15NA-U1

## MSZ-GL15NA-U1

Unit: in. (mm)

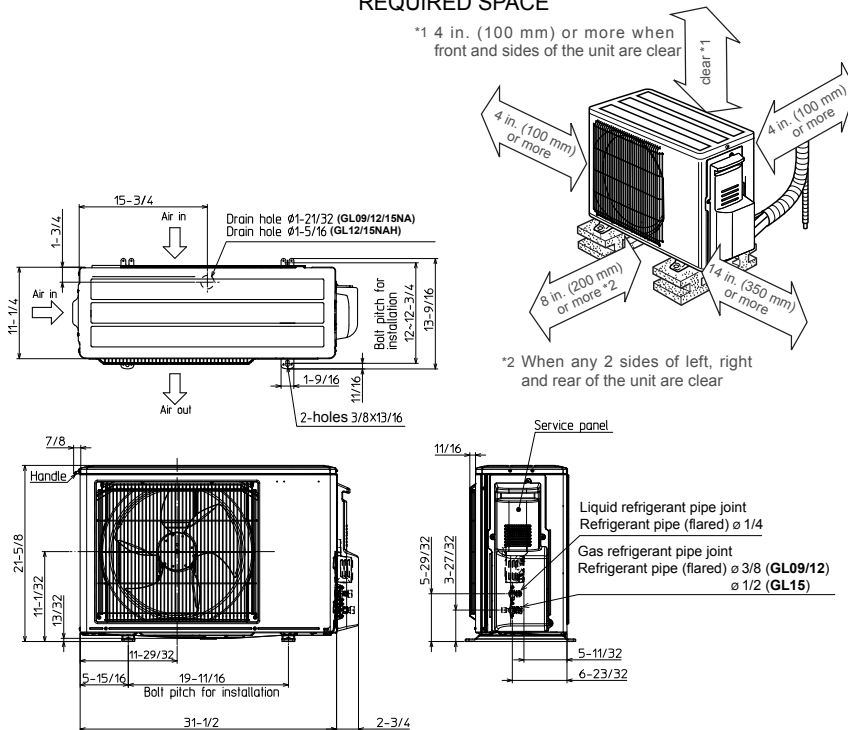


## MUZ-GL15NA-U1

Unit: in. (mm)

### REQUIRED SPACE

\*1 4 in. (100 mm) or more when front and sides of the unit are clear



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Job Name:	
System Reference:	Date:



Indoor Unit: MSZ-GL18NA-U1



Wireless Remote Controller



Outdoor Unit: MUZ-GL18NA-U1

## ACCESSORIES:

### Indoor Unit

- ☐ Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- ☐ Condensate Pump (Sauer mann SI30-115/230; 115/230V)
- ☐ Anti-Allergy Enzyme Filter (MAC-408FT-E)
- ☐ Drain Pan Level Sensor (DPLS2)

### Outdoor Unit

- ☐ Outdoor Mounting Pad (ULTRILITE1)
- ☐ Drain Pan Heater (MAC-642BH-U)
- ☐ 3-1/4" Mounting Base [Pair] (DSD-400P)
- ☐ Drain Pan Socket (MAC-851DS)
- ☐ Air Outlet Guide (MAC-886SG-E)
- ☐ Wall Mounting Bracket (QSWB2000M-1)

### Controls

- ☐ Wireless Controller (MHK1)
- ☐ Wired Remote Controller PAR-31MAA (Requires MAC-333IF-E)
- ☐ Wireless Interface for kumo cloud™ (PAC-WHS01WF-E)
- ☐ Thermostat Interface (PAC-US444CN-1)

## SPECIFICATIONS:

Rated Conditions (Capacity / Input)		
Cooling <sup>1</sup>	Btu/h / W	18,000 / 1,340
Heating at 47° F <sup>2</sup>	Btu/h / W	21,600 / 1,680

Capacity Range		Minimum	Maximum
Cooling <sup>1</sup>	Btu/h	5,800	22,000
Heating at 47° F <sup>2</sup>	Btu/h	5,400	25,000
Heating at 17° F <sup>3</sup>	Btu/h	-	18,200
Heating at 5° F <sup>4</sup>	Btu/h	-	14,500

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

Operating Conditons (Indoor Intake Air Temp.) (Max./ Min.)	
Cooling <sup>2s</sup>	90° F (32° C) DB / 67° F (19° C) DB
Heating	80° F (27° C) DB / 70° F (21° C) DB

Operating Conditons (Outdoor Intake Air Temp.) (Max./ Min.)	
Cooling <sup>5</sup>	115 F (46° C) DB / 14° F (-10° C) DB
Heating	75° F (24° C) DB / -4° F (-20° C) DB**

<sup>5</sup> Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.  
 \*\* System cuts out at -9° F (-27° C) to avoid thermistor error and automatically restarts at -4° F (-20° C).

AHRI Efficiency Ratings	
SEER / HSPF	20.5 / 11.2
COP at 47° F / 17° F	3.77 / 2.73
Energy Star®	Yes

ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.  
 Specifications are subject to change without notice.

Electrical Power Requirements	208 / 230V, 1-Phase, 60 Hz
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Minimum Circuit Ampacity (MCA)		
Indoor / Outdoor	A	1 / 14

Indoor Unit		
Blower Motor (ECM)	F.L.A.	0.67
Blower Motor Output	W	30
SHF / Moisture Removal		0.87 / 2.1 pt./h
Field Drainpipe Size O.D.	In.(mm)	5/8 (15)

Outdoor Unit		
Compressor		DC INVERTER-driven Twin Rotary
Fan Motor (ECM)	F.L.A.	0.93

Airflow Rate (Quiet - Lo - Med - Hi - Super Hi)			
Indoor (Cooling)	DRY	CFM	259-333-416-523-646
	WET		233-300-375-470-581
Indoor (Heating)	DRY		296-384-469-563-646
Outdoor			1,691 / 1,691

Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi)			
Indoor	Cooling	dB(A)	28-33-38-44-49
	Heating		28-33-38-43-48
Outdoor	Cooling		54
	Heating		55

External Dimensions		
Indoor (H x W x D)	In.(mm)	12 x 36-5/16 x 9-13/16 (305 x 923 x 250)
Outdoor (H x W x D)		34-5/8 x 33-1/16 x 13 (880 x 840 x 330)

Net Weight		
Indoor	Lbs.(kg)	28 (13)
Outdoor		121 (55)

External Finish	
Indoor	Munsell 1.0Y 9.2 / 0.2
Outdoor	Munsell No. 3Y 7.8 / 1.1

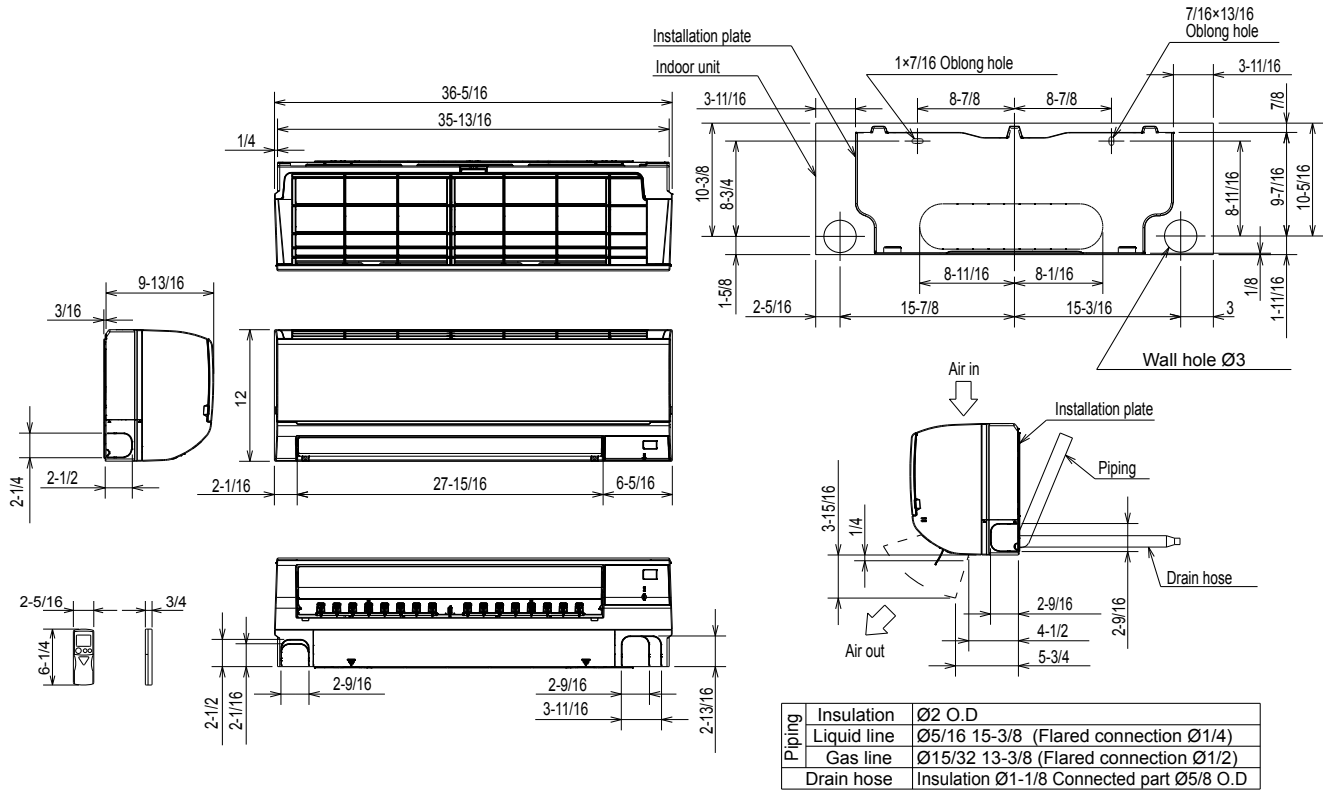
Refrigerant	R410A; 3 lb. 9 oz.
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Refrigerant Piping (Flared)		
Liquid (High Pressure)	In.(mm)	1/4 (6.35)
Gas (Low Pressure)		1/2 (12.7)
Max. Total Refrigerant Pipe Length (Height Diff.)	Ft. (m)	50 (15)
Max. Total Refrigerant Pipe Length (Length.)		100 (30)

# DIMENSIONS: MSZ-GL18NA-U1 & MUZ-GL18NA-U1

## MSZ-GL18NA-U1

Unit: in. (mm)

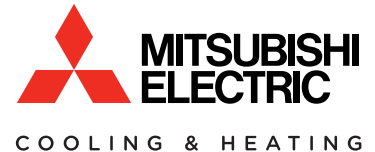
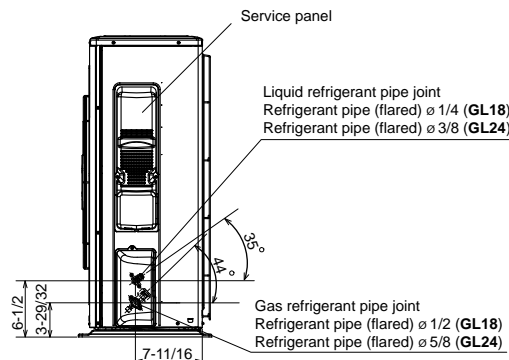
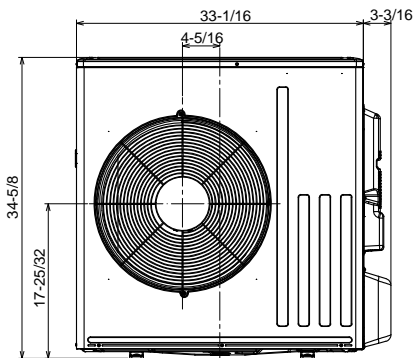
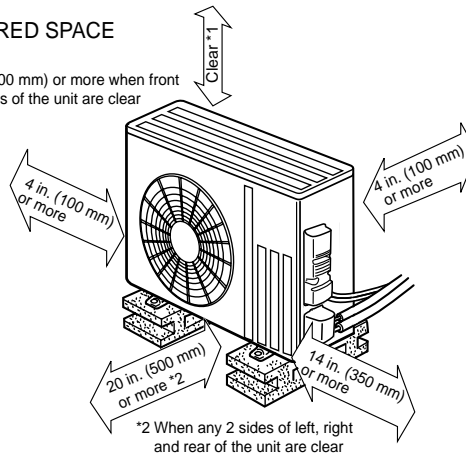
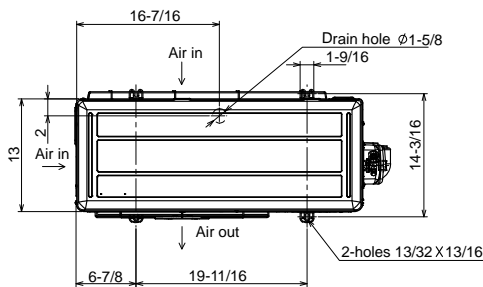


## MUZ-GL18NA-U1

Unit: in. (mm)

### REQUIRED SPACE

\*1 20 in. (500 mm) or more when front and sides of the unit are clear



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Job Name:	
System Reference:	Date:



Indoor Unit: MSZ-GL24NA-U1



Wireless Remote Controller



Outdoor Unit: MUZ-GL24NA-U1

**ACCESSORIES:****Indoor Unit**

- ☐ Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- ☐ Condensate Pump (Sauermaann SI30-115/230; 115/230V)
- ☐ Anti-Allergy Enzyme Filter (MAC-408FT-E)
- ☐ Drain Pan Level Sensor (DPLS2)

**Outdoor Unit**

- ☐ Outdoor Mounting Pad (ULTRILITE1)
- ☐ Drain Pan Heater (MAC-642BH-U)
- ☐ 3-1/4" Mounting Base [Pair] (DSD-400P)
- ☐ Drain Pan Socket (MAC-851DS)
- ☐ Air Outlet Guide (MAC-886SG-E)
- ☐ Wall Mounting Bracket (QSWB2000M-1)

**Controls**

- ☐ Wireless Controller (MHK1)
- ☐ Wired Remote Controller PAR-31MAA (Requires MAC-333IF-E)
- ☐ Wireless Interface for kumo cloud™ (PAC-WHS01WF-E)
- ☐ Thermostat Interface (PAC-US444CN-1)

**SPECIFICATIONS:**

Rated Conditions (Capacity / Input)		
Cooling <sup>1</sup>	Btu/h / W	22,400 / 1,800
Heating at 47° F <sup>2</sup>	Btu/h / W	27,600 / 2,340

Capacity Range		Minimum	Maximum
Cooling <sup>1</sup>	Btu/h	8,200	31,400
Heating at 47° F <sup>2</sup>	Btu/h	7,500	36,900
Heating at 17° F <sup>3</sup>	Btu/h	-	24,600
Heating at 5° F <sup>4</sup>	Btu/h	-	21,160

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

Operating Conditions (Indoor Intake Air Temp.) (Max./ Min.)	
Cooling <sup>2</sup>	90° F (32° C) DB / 67° F (19° C) DB
Heating	80° F (27° C) DB / 70° F (21° C) DB

Operating Conditions (Outdoor Intake Air Temp.) (Max./ Min.)	
Cooling <sup>5</sup>	115 F (46° C) DB / 14° F (-10° C) DB
Heating	75° F (24° C) DB / -4° F (-20° C) DB**

<sup>5</sup> Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

\*\* System cuts out at -9° F (-27° C) to avoid thermistor error and automatically restarts at -4° F (-20° C).

AHRI Efficiency Ratings	
SEER / HSPF	20.5 / 10.0
COP at 47° F / 17° F	3.46 / 2.65

<b>Energy Star®</b>	Yes
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ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.

Specifications are subject to change without notice.

<b>Electrical Power Requirements</b>	208 / 230V, 1-Phase, 60 Hz
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Minimum Circuit Ampacity (MCA)		
Indoor / Outdoor	A	1 / 17.1

Indoor Unit		
Blower Motor (ECM)	F.L.A.	0.76
Blower Motor Output	W	55
SHF / Moisture Removal		0.75 / 5.1 pt./h
Field Drainpipe Size O.D.	In.(mm)	5/8 (15)

Outdoor Unit		
Compressor		DC INVERTER-driven Twin Rotary
Fan Motor (ECM)	F.L.A.	0.93

Airflow Rate (Quiet - Lo - Med - Hi - Super Hi)			
Indoor (Cooling)	DRY	CFM	388-469-544-628-738
	WET		347-420-487-562-661
Indoor (Heating)	DRY		388-469-544-628-738
Outdoor			1769 / 1701

Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi)			
Indoor	Cooling	dB(A)	34-41-45-49-53
	Heating		32-41-45-49-52
Outdoor	Cooling		55
	Heating		55

External Dimensions		
Indoor (H x W x D)	In.(mm)	12-13/16 x 43-5/16 x 9-3/8 (325 x 1,100 x 238)
Outdoor (H x W x D)		34-5/8 x 33-1/16 x 13 (880 x 840 x 330)

Net Weight		
Indoor	Lbs.(kg)	37 (17)
Outdoor		119 (54)

External Finish	
Indoor	Munsell 1.0Y 9.2 / 0.2
Outdoor	Munsell No. 3Y 7.8 / 1.1

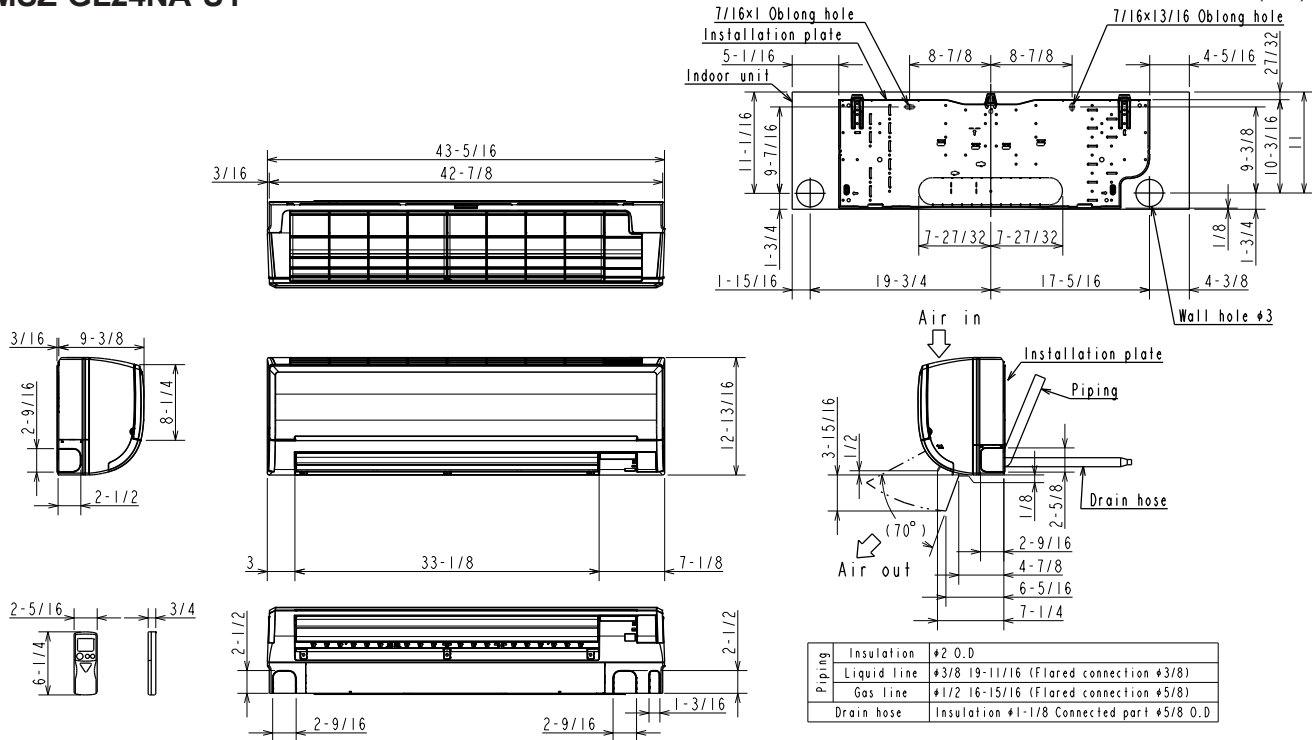
<b>Refrigerant</b>	R410A; 4 lb. 3 oz.
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Refrigerant Piping (Flared)		
Liquid (High Pressure)	In.(mm)	3/8 (9.52)
Gas (Low Pressure)		5/8 (15.88)
Max. Total Refrigerant Pipe Length (Height Diff.)	Ft. (m)	50 (15)
Max. Total Refrigerant Pipe Length (Length.)		100 (30)

# DIMENSIONS: MSZ-GL24NA-U1 & MUZ-GL24NA-U1

## MSZ-GL24NA-U1

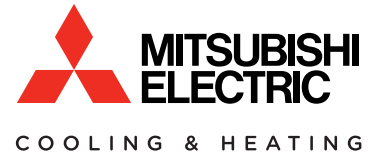
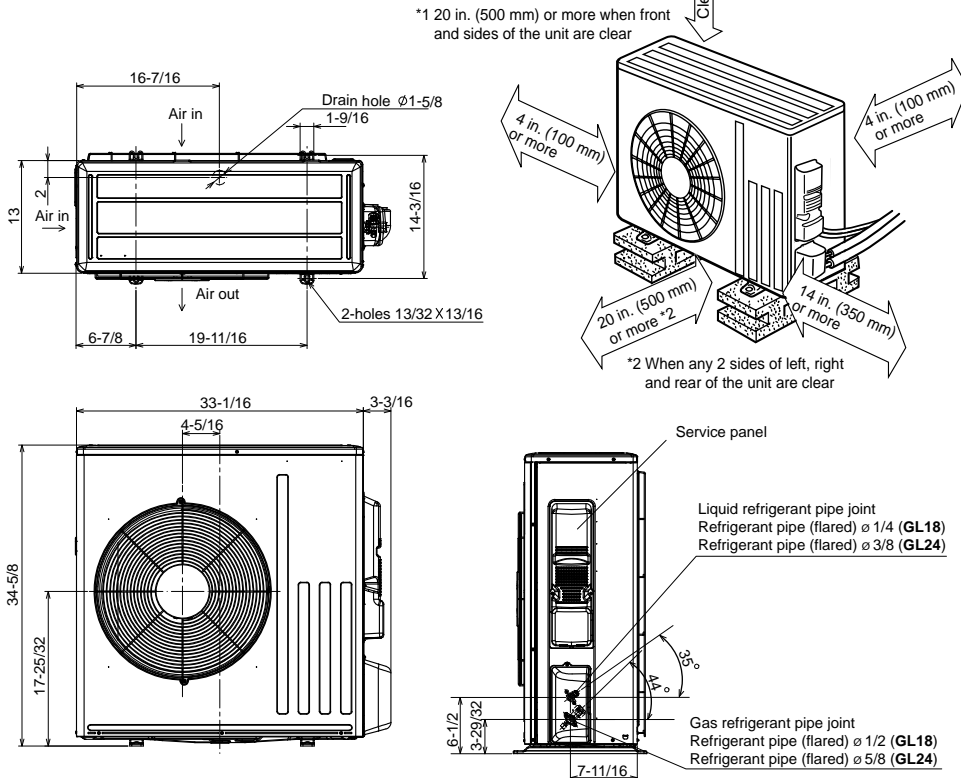
Unit: in. (mm)



## MUZ-GL24NA-U1

### REQUIRED SPACE

Unit: in. (mm)



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