### **SUBMITTAL REVIEW**



CLIENT NAME:	Vails Gate Fire Department		
PROJECT TITLE:	Vails Gate FD - New Firehouse		
SUBMITTAL No.:	238126-1	H2M PROJECT No.:	VGFD2001
SUBMITTAL NAME:	Ductless Split System AC PD - Phase 1		

	SUBMITTAL	REVIEW
REVIE	W IS FOR GENERAL COMPLIANCE W NO RESPONSIBILITY IS ASSUME OF DIMENSIONS OR	D FOR CORRECTNESS
	NO EXCEPTIONS TAKEN	SUBMIT SPECIFIED ITEM
	MAKE CORRECTIONS NOTED (RESUBMISSION NOT REQUIRED)	NO ACTION TAKEN (REVIEW IS THE RESPONSIBILITY OF ANOTHER PARTY)
	REVISE & RESUBMIT	NO ACTION TAKEN (THIS SUBMITTAL IS NOT REQUIRED BY THE CONTRACT)
	REJECTED - SEE REMARKS	RECEIVED FOR RECORD
relieve specifica concept contrac quantiti constru	ions or comments made on the shop contractor from compliance with rations. This check is only for review of the project and general compliance the documents. The contractor is responsives and dimensions; selecting fabrication; coordinating their work with that is a safe and satisfactory manner.	equirements of the drawings and general conformance with the design the with the information given in the ble for: confirming and correlating all action processes and techniques of
	H2M architects +	engineers
Dat	e: 08/08/2023	By: MJV

#### Comments:

Condenser is wall hung on exterior.			

# CONTRACTOR'S COMPANY NAME ADDRESS

# SUBMISSION TRANSMITTAL FORM CLIENT NAME: Vails Gate Fire District

PROJECT TITLE: VGFD2001-New Firehouse

**H2M PROJECT NO.:** VGFD2001

Product, Item, or System Submitted:	Ductless Split AC Unit P	roduct Data (Phase 1)	
Submission Date:	7/26/2023	Submission Log No.:	238126-1
Specification Section:	238126	Paragraph Reference:	1.06
Contract Drawing Reference(s):			
Manufacturer's Name:			
Manufacturer's Mailing Address:			
Manufacturer's Contact Information:	Name	( ) Tel. no.	Email
Supplier's Name: Joseph Lombardo Plum		ping Heating	
Supplier's Mailing Address:			
Supplier's Contact Information:	Name	( ) Tel. no.	Email
This item is a substititiem:	ution for the specified	No	Yes
KEY CONSTRUCTION SERVICES, LLC		Contractor's Brief Co (attach separate lette	
Project No: VGFD2001  Reviewed for General Acceptance Only. This review does not relieve the Subcontractors or Suppliers of responsibility for making the work conform to the requirements of the contract. The Subcontractor and Suppliers are responsible for all dimensions, correct fabrication and accurate fit with the work of other trades.  SUBJECT TO ARCHITECT AND OR ENGINEER APPROVAL  Signed Joseph Manfredi(PM) Date: 7/26/2023  Contractor's Approval Stamp with Signature & Date		similar data and that coordinated this subn	ned and verified all and dimensions, field site and building of limitations in the enclosed space, d model numbers and we have checked and nission with other of the installed location e requirements

#### **END OF SECTION 013300**

VGFD2001 013300 - 9 Issue Date: 07/18/2022

# Joe Lombardo

# Plumbing & Heating of Rockland, Inc.

Rock Road			DATE:	RANSMITTAL JOB NO.
Suffern, NY 10901 Ph. 845-357-6537 Fx 845-357-8529 E: <u>info@josephlombardo.com</u>			7-24-23	
			ATTENTION:	,
			Joe Manfredi	
<u>vw.josephlom</u>	<u>bardo.com</u>			
			RE:	
			Vails Gate Firehouse	
		<u> </u>		
ie Park, in i	12330			
	-			
DING YOU	☐ Attached	☐ Under separate	e cover via	the following items:
Drawings	☐ Prints	☐ Plans	☐ Samples	☐ Specifications
of letter	☐ Change	order 🗌		
DATE	No.	DUIGTI FOR ODI	DESCRIPTION	
7-24-23	238126	DUCTLESS SPL	IT AC UNIT PHASE 1	
	) as checked he	low:		
TRANSMITTED	ao onconca bo			
FRANSMITTED pproval		eptions Taken	☐ Resubmit	copies for review
	☐ No Exce	eptions Taken orrections Noted		copies for review copies for distribution
pproval	☐ No Exce	orrections Noted	Submit	
pproval our use	☐ No Exce ☐ Make Co ☐ Rejected	orrections Noted	Submit	copies for distribution ——corrected prints
	7-6537 Fx 845 sephlombardo ww.josephlomb Plumbing #1000 Ty. Plumbing #400 Cy. Plumbing #400 Onstruction 6 Albany Po le Park, NY DING YOU Drawings of letter	10901   7-6537 Fx 845-357-8529	10901   7-6537 Fx 845-357-8529	7-24-23  ATTENTION: Joe Manfredi  ATTENTION: Joe Manfredi  Re: Vails Gate Firehouse  Construction 6 Albany Post Rd. Suite 1 de Park, NY 12538  DING YOU Attached Under separate cover via  Drawings Prints Plans Samples of letter Change order  DATE NO. DESCRIPTION



## **Ductless Split Submittal REV0**

**Prepared For:** H2M

Date: July 24, 2023

Job Name:

Vails Gate Fire District-Office Ductless Splits

Trane U.S. Inc. is pleased to provide the following submittal for your review and approval.

#### **Product Summary**

#### **Qty Product**

- 1 VRF Accessory
- 1 VRF Controls
- 1 Ductless Split (M Series)

Stav Shadmi Trane U.S. Inc.

19 Chapin Road, Bldg B, Suite 200 Pine Brook, NJ 07058 Office Phone: (973) 244-7000 The attached information describes the equipment we propose to furnish for this project and is submitted for your approval.

Submittal acceptance and return is a critical step, so please ensure submittals are returned with approval to release to production within <u>14 days</u> of submittal date.

Product performance and submittal data is valid for a period of 6 months from the date of submittal generation. If six months or more has elapsed between submittal generation and equipment release, the product performance and submittal data will need to be verified. It is the customer's responsibility to obtain such verification.

#### **Coordination Notes:**

1. Equipment will be released as submitted unless otherwise noted:

Qty	<u>Description</u>	<u>Model Number</u>
1	0.75 Ton Hyper Heating Outdoor Unit	NTXSPH09B112AA
1	9 MBH Wall Mounted Indoor Unit for Hyper Heat	NTXWPH09B112AA
1	Disconnect Switch	TAZ-MS303W
1	M-NET & Control Interface	MAC-334IF-E
1	Remote Controller	TAR-CT01MAU-SB

#### Clarifications and Exceptions - Trane - Mitsubishi Ductless Split

<u>Not Included:</u> Startup services, smoke detectors, refrigeration tees, filter boxes, wind baffles, hail/snow guards, flow switches, secondary drain pans, secondary condensate overflow sensors, disconnects, refrigerant piping specialties, hangers, refrigerant piping, water piping, hose kits/valves, insulation, isolation valves, watt-hour meters, tenant billing software, additional refrigerant, roof rails or curbs, condensing unit mounting brackets, humidity sensors, external vibration isolation, rigging/receiving, spare parts, service labor, installation labor, LEV installation, LEV sensor installation, extended warranty, labor warranty, anything else not listed in proposal above.

### NTXWPH09B112AA & NTXSPH09B112AA 9,000 BTU/H DELUXE WALL-MOUNTED INDOOR UNIT 9,000 BTU/H HYPER-HEATING OUTDOOR UNIT





Job Name:	
System Reference:	Date:



Indoor Unit NTXWPH09B112AA

Outdoor Unit NTXSPH09B112AA

#### INDOOR UNIT FEATURES

- · Slim wall-mounted indoor units provide zone comfort control
- · Dual Barrier Coating applied to the heat exchanger, vanes and fan to prevent hydrophilic and hydrophobic dirt build-up

MITSUBISI ELECTRIC

- Multiple fan speed options: Quiet, Low, Medium, High, Super-high, Auto
- 3D i-see Sensor® enables advance features:
  - o Indirect or Direct Airflow for personalized comfort
  - o Absence Detection for energy-saving mode
- Double Vane features:
  - o Separates airflow to deliver air across a large area
  - o Simultaneously deliver to air separate sections of a room
  - o Generates more comfortable natural airflow pattern
- Multiple control options available:
  - o Back-lit screen handheld remote controller (provided with unit)
  - o kumo cloud® smart device app for remote access
  - o Third-party interface options
  - o Wired or wireless controllers
- Triple-action Filtration: Nano Platinum Filter, Deodorizing Filter, & Electrostatic Anti-Allergy Enzyme Filter
- · Hot-Start Technology: no cold air rush at equipment startup or when restarting after Defrost Cycle
- · Quiet operation

#### **OUTDOOR UNIT FEATURES**

- · INVERTER-driven compressor and LEV provide high efficiency and comfort while using only the energy needed to maintain maximum performance
- Hyper-heating plus offers 100% heating capacity at -5° and 70% to 81% heating capacity at -13° F
- · Blue Fin anti-corrosion treatment applied to the outdoor unit heat exchanger for increased coil protection and longer life

### SPECIFICATIONS: NTXWPH09B112AA & NTXSPH09B112AA

	Maximum Capacity	BTU/H	12,000
	Rated Capacity	BTU/H	9,000
	Minimum Capacity	BTU/H	1,700
Cooling at 95°F1	Maximum Power Input	W	1,000
	Rated Power Input	W	560
	Moisture Removal	Pints/h	0.6
	Sensible Heat Factor		0.92
	Power Factor [208V / 230V]	%	89.0 / 90.0
	Maximum Capacity	BTU/H	18,000
	Rated Capacity	BTU/H	9,600
Lin 1 470E2	Minimum Capacity	BTU/H	1,600
eating at 47°F2	Maximum Power Input	W	1,740
	Rated Power Input	W	620
	Power Factor [208V / 230V]	%	92.0 / 92.0
	Maximum Capacity	BTU/H	14,170
	Rated Capacity	BTU/H	5,900
eating at 17°F³	Maximum Power Input	W	1,580
	Rated Power Input	W	450
5054	Maximum Capacity	BTU/H	11,590
eating at 5°F⁴	Maximum Power Input	W	1,410
eating at -5°F6	Maximum Capacity	BTU/H	9,600
eating at -13°F7	Maximum Capacity	BTU/H	8,000
·	SEER   SEER2		30.5   29.8
	EER¹   EER2¹		16.05   16.05
	HSPF [IV]   HSPF2 [IV]		13.5   10.9
	COP at 47°F <sup>2</sup>		4.54
iciency	COP at 17°F at Maximum Capacity³		2.63
	COP at 5°F at Maximum Capacity <sup>4</sup>		2.2
	COP at -5°F at Maximum Capacity <sup>6</sup>		2.2
	COP at -13°F at Maximum Capacity <sup>7</sup>		1.89
	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
ectrical	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Oudoor)	A	15
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	Power Supply		Indoor unit is powered by the outdoor unit
	MCA	A	1.0
	Fan Motor Full Load Amperage	A	0.65
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	137–167–221–304–381
	Airflow Rate at Cooling, Wet	CFM	117–143–190–261–328
	Airflow Rate at Heating, Dry	CFM	140–167–225–325–437
	Sound Pressure Level [Cooling]	dB[A]	20–23–29–36–40
loor Unit	Sound Pressure Level [Heating]	dB[A]	20-24-29-39-42
	Drain Pipe Size	In. [mm]	5/8 [15.88]
	Coating on Heat Exchanger	[]	Dual Barrier Coating
	External Finish Color		Munsell 1.0Y 9.2/0.2
	Unit Dimensions	W x D x H: In. [mm]	36-7/16 x 9-3/16 x 12 (+11/16) [925 x 234 x 305 (+17)]
	Package Dimensions	W x D x H: In. [mm]	39 x 12-1/4 x 15-1/2 [990 x 310 x 400]
	Unit Weight	Lbs. [kg]	29 [13.5]
	Package Weight	Lbs. [kg]	34 [15.4]
door Unit Operating Tomporture	Cooling Intake Air Temp [Maximum / Minimum]*	°F	90 DB, 73 WB / 67 DB, 57 WB
door Unit Operating Temperature			
Range	Heating Intake Air Temp [Maximum / Minimum]	°F	80 DB / 70 DB

NOTES: AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)

<sup>1</sup>Cooling (Indoor // Outdoor) <sup>2</sup>Heating at 47°F (Indoor // Outdoor) <sup>3</sup>Heating at 17°F (Indoor // Outdoor)

80 DB, 67 WB // 95 DB, 75 WB 70 DB, 60 WB // 47 DB, 43 WB 70 DB, 60 WB // 17 DB, 15 WB

°F °F °F

Conditions

<sup>4</sup>Heating at 5°F (Indoor // Outdoor) <sup>6</sup>Heating at -5°F (Indoor // Outdoor) <sup>7</sup>Heating at -13°F (Indoor // Outdoor)

°F °F °F 70 DB, 60 WB // 5 DB, 4 WB 70 DB, 60 WB // -5 DB, -6 WB 70 DB, 60 WB // -13 DB, -14 WB

<sup>\*</sup>Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

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

<sup>\*\*</sup>Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):

• System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

### SPECIFICATIONS: NTXWPH09B112AA & NTXSPH09B112AA

	MCA	A	10.0
	MOCP	A	15
	Fan Motor Fu <b>ll</b> Load Amperage	A	0.5
	Fan Motor Output	W	55
	Airflow Rate [Cooling / Heating]	CFM	1141 / 1183
	Refrigerant Control		LEV
	Defrost Method	Reverse Cycle	
	Coating on Heat Exchanger		Blue Fin Coating
	Sound Pressure Level, Cooling <sup>1</sup>	dB(A)	48
	Sound Pressure Level, Heating <sup>2</sup>	dB(A)	49
Outdoor Unit	Compressor Type		Twin Rotary
	Compressor Model		SNB092FQAMT
	Compressor Rated Load Amps	A	9.2
	Compressor Locked Rotor Amps	A	7.4
	Compressor Oil [Type // Charge]	OZ.	FV50S // 0.35
	External Finish Color		Munsell 3Y 7.8/1.1
	Base Pan Heater		Optional
	Unit Dimensions	W x D x H: In. [mm]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]
	Package Dimensions	W x D x H: In. [mm]	37 x 15 x 24-1/2 [940 x 380 x 630]
	Unit Weight	Lbs. [kg]	82 [37]
	Package Weight	Lbs. [kg]	89 [40]
	Cooling Air Temp [Maximum / Minimum]*	°F	115 DB / 14 DB
Outdoor Unit Operating Temperature	Cooling Thermal Lock-out / Re-start Temperatures**	°F	-4 / 0
Range	Heating Air Temp [Maximum / Minimum]	°F	75 DB, 65 WB / -13 DB, -14 WB
	Heating Thermal Lock-out / Re-start Temperatures**	°F	-18 / -14
	Туре		R410A
Refrigerant	Pre-Charged Refrigerant Amount	Lbs, oz	2.0, 9.0
Kemgerani	Maximum Pre-Charged Piping Length	Ft. [m]	25.0 [7.5]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.216 [20]
	Gas Pipe Size O.D. [Flared]	In.[mm]	3/8 [9.52]
	Liquid Pipe Size O.D. [Flared]	In.[mm]	1/4 [6.35]
Piping	Maximum Piping Length	Ft. [m]	65 [20]
	Maximum Height Difference	Ft. [m]	40 [12]
	Maximum Number of Bends		10

NOTES: AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)

<sup>1</sup>Cooling (Indoor // Outdoor) <sup>2</sup>Heating at 47°F (Indoor // Outdoor) <sup>3</sup>Heating at 17°F (Indoor // Outdoor)

80 DB, 67 WB // 95 DB, 75 WB 70 DB, 60 WB // 47 DB, 43 WB 70 DB, 60 WB // 17 DB, 15 WB °F °F °F

Conditions

<sup>4</sup>Heating at 5°F (Indoor // Outdoor) <sup>6</sup>Heating at -5°F (Indoor // Outdoor) <sup>7</sup>Heating at -13°F (Indoor // Outdoor)

°F °F °F 70 DB, 60 WB // 5 DB, 4 WB 70 DB, 60 WB // -5 DB, -6 WB 70 DB, 60 WB // -13 DB, -14 WB

<sup>\*</sup>Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

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

<sup>\*\*</sup>Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):

• System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

### **INDOOR UNIT ACCESSORIES: NTXWPH09B112AA**

	BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	CN24 Relay Kit	CN24RELAY-KIT-CM3
	IT Extender	PAC-WHS01IE-E
	kumo station® for kumo cloud®	TAC-WHS01HC-E
Control Interface	System Control Interface	MAC-334IF-E
	Thermostat Interface	PAC-US444CN-1
	Thermostat Interface	PAC-US445CN-1
	USNAP Adapter	PAC-WHS01UP-E
	Wireless Interface for kumo cloud®	PAC-USWHS002-WF-2
	Wired Remote Sensor	M21EAA307
emote Sensor	Wireless temperature and humitity sensor for kumo cloud®	PAC-USWHS003-TH-1
	Deluxe Wired MA Remote Controller <sup>†</sup>	TAR-40MAAU
fine d Demonts October	Simple Ductless Wired Remote Controller	PAC-SDW01RC-1
/ired Remote Controller	Simple MA Remote Controller <sup>†</sup>	TAC-YT53CRAU-J
	Touch MA Controller <sup>†</sup>	TAR-CT01MAU-SB
	kumo touch™ RedLINK™ Wireless Controller	MHK2
/ireless Remote Controller	Lockdown bracket for remote controller	RCMKP1CB
	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	X87-721
	Blue Diamond (MicroBlue) Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	X86-003
	Blue Diamond Alarm Extension Cable — 6.5 Ft.	C13-192
	Blue Diamond MultiTank — collection tank for use with multiple pumps	C21-014
	Blue Diamond Sensor Extension Cable — 15 Ft.	C13-103
ondensate	Drain Pan Level Sensor/Control	SS610E
	Fascia Kit for MicroBlue Pump, mounts the MicroBlue and sensor directly beneath indoor unit	T18-016
	Refco Condensate Pump (100-240 VAC)	GOBI-II
	Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	СОМВІ
	Sauermann Condensate Pump	SI30-230
:	(30A/600V/UL) [fits 2" X 4" utility box] - Black	TAZ-MS303
isconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - White	TAZ-MS303W
	Electro Static Anti-allergy Enzyme Filter	MAC-2330FT-E
Iter	Platinum Deodorizing Filter	MAC-3000FT-E
	15' x 1/4" x 15' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-15
	30' x 1/4" x 30' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-30
ineset	50' x 1/4" x 50' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-50
	65' x 1/4" x 65' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-65

NOTES:

¹Requires MAC-334IF-E

• Nv-Series EZ FIT® Recessed Ceiling Cassette, Floor-mount and Wall-mount Allows indoor units to connect to an MA Controller:

Deluxe MA Remote Controller

Simple MA Controller

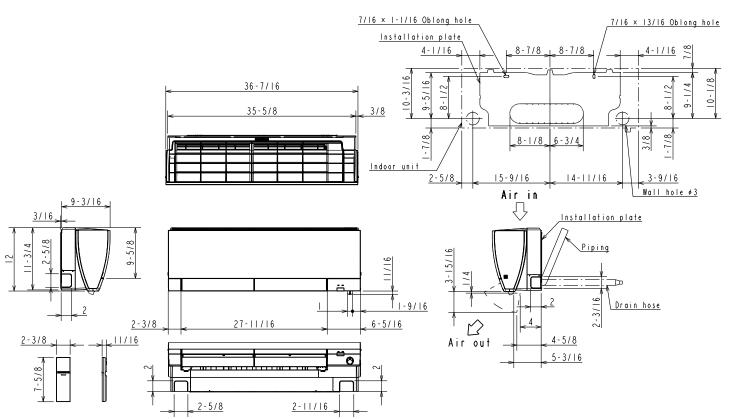
Touch MA Controller

### **OUTDOOR UNIT ACCESSORIES: NTXSPH09B112AA**

Occidental (Occident Total	M- & P-Series Maintenance Tool Cable Set	M21EC0397
Control/Service Tool	USB/UART Conversion Cable (Required for all laptop connection)	M21EC1397
Drain Socket	Drain Socket MAC-871DS	
Hail Guards	Hail Guard	HG-B4
	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S144-250
Mini-Split Wire	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S144-50
Mini-Spiit Wire	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S164-50
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	MAC-640BH-U
	18" Single Fan Stand	QSMS1801M
Stand	24" Single Fan Stand	QSMS2401M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit Stand — 12" High	QSMS1201M

### **INDOOR UNIT DIMENSIONS: NTXWPH09B112AA**

### Unit: inch



#### (06/09/12 KBTU/H)

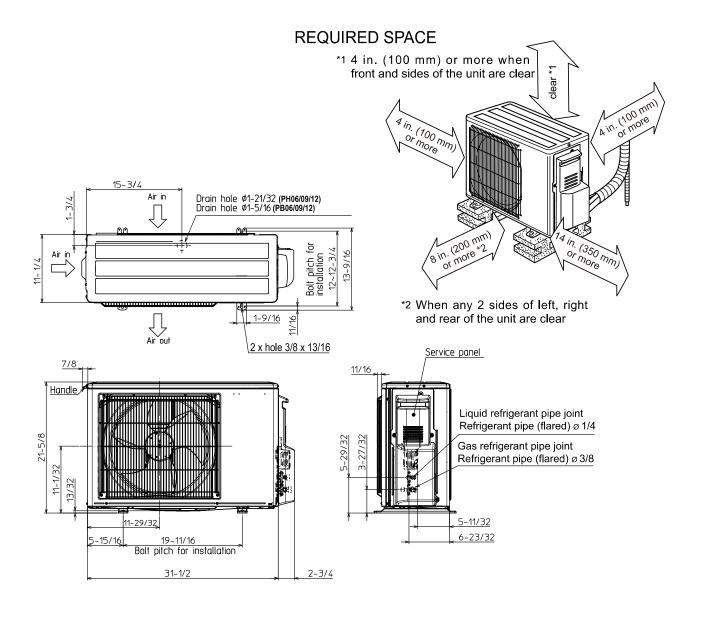
βί	Insulation	
- <u>a</u>	Liquid line	♦1/4   19-11/16 (Flared connection ♦1/4)
ط	Gas line	♦3/8   16-15/16 (Flared connection ♦3/8)
	Orain hose	Insulation #1-1/8 Connected part #5/8 O.D

### (15/18 KBTU/H)

5	_ Insulation	♦1-7/16 O.D
	Liquid line	♦1/4 19-11/16 (Flared connection ♦1/4)
۵	- Gas line	♦3/8   16-15/16 (Flared connection ♦1/2)
	Drain hose	Insulation #1-1/8 Connected part #5/8 O.D

### **OUTDOOR UNIT DIMENSIONS: NTXSPH09B112AA**

Unit: inch









Specifications are subject to change without notice.

### **System Control Interface**





Job Name:

System Reference: Date:

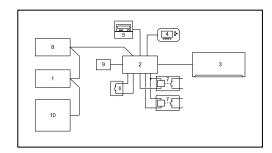


#### **System Configuration**

Devices that may be used with the System Control Interface System Control Interface:

- 1. Central Controller (TE-200, TW-50A, TT-24B-J\*)
- 2. System Control Interface (MAC-334IF)
- 3. M-Series indoor unit
- 4. CN105 Interface
- 5. MA Remote Controller
- 6. Input Contact (field supplied)
- 7. Output Relay (field supplied)
- 8. M-Net Power Supply Unit (PAC-SC51KUA)
- 9. External 12VDC Power Supply (field supplied)
- 10. BAC-HD150\* or LMAP03U\*
- \*TT-24B-J is not compatible with LMAP04U.

For details on individual components, please refer to the appropriate manual(s).



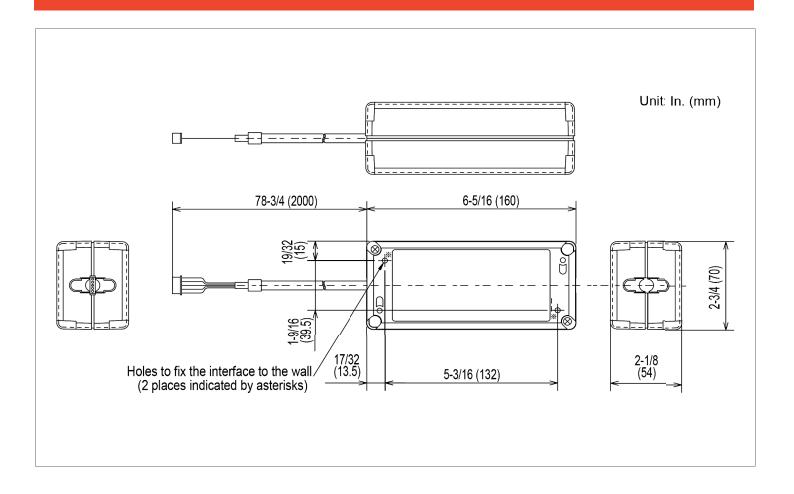
#### MAC-334IF-E system control interface specifications for Nv-Series indoor units

- Allows the Nv-Series indoor units to communicate with the CITY MULTI® Controls Network
- Dual-setpoint Auto mode can be enabled by dip switch
- Can turn external heater ON/OFF based on setpoint and room temperature
- · Provides two outputs to allow for the following control scenarios:
  - · Equipment Status and Error
  - · Equipment Status and Auxiliary Heat Source
  - Equipment Status and Humidifier Control
  - Auxiliary Heat Control and Humidifier Control
- Note: External 12VDC power supply is required
- Provides an input to allow remote On/Off control of indoor unit (3-Wire plug adapter included)
- Allows the M-Series indoor units to connect to CN105 interface via CN505 on the MAC-334IF-E
  when using other MAC-334IF functions
  - Note: external 12VDC power supply is required
- · Allows the Nv-Series indoor units to connect to a MA remote controller
- · Indoor unit CN105 cable included
- In order to have a MAC-334IF-E in the same group as a MAC-333IF-E, DIP switch 502-7 must be set to ON

#### COMPATIBILITY

M&P Ductless	
MSZ-EF09NA(B/W/S)	
MSZ-EF12NA(B/W/S)	
MSZ-EF15NA(B/W/S)	
MSZ-EF18NA(B/W/S)	
MSZ-EF09NA(B/W/S)	
MSZ-EF12NA(B/W/S)	
MSZ-EF15NA(B/W/S)	
MSZ-EF18NA(B/W/S)	
MSZ-EF09NA(B/W/S)	
MSZ-EF12NA(B/W/S)	
MSZ-EF15NA(B/W/S)	
MSZ-EF18NA(B/W/S)	
NTXFKS09A112AA	
NTXFKS12A112AA	
NTXFKS15A112AA	
NTXFKS18A112AA	
NTXUKS06A112AA	
NTXUKS09A112BA	
NTXUKS12A112BA	
NTXUKS18A112BA	
NTXWEL09A112AA	
NTXWEL12A112AA	
NTXWEL18A112AA	
NTXWEL24A112AA	
NTXWMT09A112AB	
NTXWMT12A112AB	
NTXWMT15A112AB	
NTXWMT18A112AA	
NTXWMT24A112AA	
NTXWPH06B112AA	
NTXWPH09B112AA	
NTXWPH12B112AA	
NTXWPH15B112AA	
NTXWPH18B112AA	
NTXWST06A112AB	
NTXWST00A112AB	
NTXWST12A112AB NTXWST15A112AB	
NTXWST24A112AA	
NTXWST30B112AA	
NTXWST36B112AA	
NTYWST09A112AB	
NTYWST12A112AB	
NTYWST15A112AB	
NTYWST18A112AA	
NTYWST24A112AA	
NTYWST30B112AA	
NTYWST36B112AA	
NTXUKS06A112AA	
NTXUKS09A112BA	
NTXUKS12A112BA	

## **DIMENSIONS: MAC-334IF-E**



## TAR-CT01MAU-SB







n	h	Ν	a	m	e	•

System Reference: Date:



#### CAPABILITIES

- · Supports both Fahrenheit and Celsius
- · Basic functions:
  - ON/OFF
  - Operation mode: AUTO, COOL, HEAT, FAN
  - Vane Setting: Auto, Step 1-5, Swing
  - · Airflow direction
  - Daylight Savings Time (DST)
- · Restriction
  - · Set temperature range limits (dependent on system connected):
- · Cooling from 67°F to 95°F
- · Heating from 63°F to 83°F
- Auto (Single Set Point) from 67°F to 83°F
  - Operation lock: On/Off, Mode, Set Temperature, Vane, Menu, Fan, Louver, Hold
- · Ventilation (Lossnay): Off, Low, High
- Manual vane angle: No Setting, Step 1-5, Draft Reduction, All outlet
  - Draft reduction mode keeps the vane angle more horizontal than the angle of Step 1
- Room Temperature can be sensed either at the indoor unit (default) or the remote controller
- · Error code notification
  - · Displays error code and error unit address
  - · Error time occurrence
  - · Contact information is accessible
- · Grouping:
  - Only one remote controller can be connected to a group made up of indoor units
  - The MA Touch Remote Controller cannot be used in combination with other MA remote controllers
- · Customizable display
  - Customizable Text and background color
  - Background Logo: load a custom image onto the screen using the smartphone app
- Main Display
  - Full: Shows all icons and values
  - Basic: Limited to Mode, Set Temperature, Fan, Time & Day
  - Temporarily disable display for cleaning (30 seconds)
  - · Adjustable contrast level
  - Language English, French, Spanish
- Bluetooth connection to remotely control settings on Touch MA controller
- Clock synchronization
- Copy settings from one controller to others
- 22/2 AWG required, stranded recommended
- · High Power
  - Temporarily operate at maximum capacity until set temperature has been met or 30 minutes have passed
- · On/Off Timer
  - · Set On Time (5-minute increments)
  - Set Off Time (5-minute increments)
  - Repeat daily
- Auto-Off Timer
  - Automatically turns unit off after preset time is reached
  - Time range: 30 to 240 minutes (10-minute increments)
- Weekly Schedule

- Schedulable: Mon, Tue, Wed, Thu, Fri, Sat, Sun
- 1 to 8 time periods per day (5-minute increments)
- Set Mode: On/Off/Auto (Dual set point)
- · Outdoor Unit silent mode
  - · Schedulable: Mon. Tue, Wed, Thu, Fri, Sat, Sun
  - · Start/Stop times (5-minute increments)
- · Silent levels: Normal, Middle, Quiet
- · Energy saving features:
  - Automatic return to the preset temperature set point if the set point is changed from the remote controller after a preset time range
  - Cool preset temperature: Cool, Dry, Auto-Cool
  - Heat preset temperature: Heat, Auto-Heat
  - Range: 30 to 120 minutes (10-minute increments)
  - Energy-saving Operation Schedule
- Schedulable: Mon, Tue, Wed, Thu, Fri, Sat, Sun
- 1 to 4 time periods per day (5-minute increments)
- Four daily patterns with time periods (5 minute increments) and energy-saving rate 0% to 90%  $\,$
- Home screen display icon
- Night setback
- Starts Heat/Cool operation when room temperature exceeds preset temperature range
- Adjustable time range (5-minute increments)
- · Filter maintenance notification

#### SPECIFICATIONS

SPECIFICATIONS			
Droduct Cito (M v H v D)	In (mm)	2-9/16 x 4-3/4 x 9/16 (65 x 120	
Product Size (W x H x D)	In. (mm)	x 14.1)	
Net Weight	Lbs. (kg)	13/64 (0.09)	
Rated Power Supply Voltage Power Consumption		12 VDC (supplied from indoor	
		units)	
		0.6	
		Temperature: 32 ~ 104°F (0 -	
Usage Environment	40°C) Humidity: 25 ~ 90%RH		
		(with no dew condensation)	
Material W		Main Body: ABS	

## TAR-CT01MAU-SB

COMPATIBILITY
M&P Ductless
MSZ-EF09NA(B/W/S)
MSZ-EF09NA(B/W/S)
MSZ-EF09NA(B/W/S)
MSZ-EF12NA(B/W/S)
MSZ-EF12NA(B/W/S) MSZ-EF12NA(B/W/S)
MSZ-EF15NA(B/W/S)
MSZ-EF15NA(B/W/S)
MSZ-EF15NA(B/W/S)
MSZ-EF18NA(B/W/S)
MSZ-EF18NA(B/W/S)
MSZ-EF18NA(B/W/S)
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NTXCKS12A112AA NTXCKS15A112AA
NTXCKS18A112AA
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NTXFKS15A112AA
NTXFKS18A112AA
NTXUKS06A112AA
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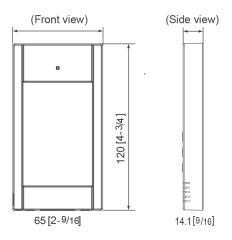
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NTXAMT24A112AA
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NTXAMT36A112AA
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TPEADA0181AA80A
TPEADA0241AA80A
TPEADA0301AA80A
TPEADA0361AA80A
TPEADA0091AA80A
TPEADA0121AA80A
TPEADA0151AA80A
intelli-HEAT
PAA-A30AA1
PAA-A30BA1
PAA-A36BA1
PAA-A36CA1
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PAA-A42CA1
PAA-A18AA1
PAA-A18BA1
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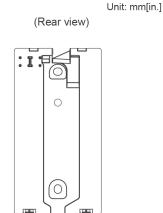
CM Ductless
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TPCFYP024KM140B
TPCFYP030KM140B
TPCFYP036KM140B
TPFFYP006CS140A
TPFFYP006RE140A
TPFFYP008CS140A
TPFFYP008RE140A
TPFFYP012CS140A
TPFFYP012RE140A
TPFFYP015CS140A
TPFFYP015RE140A
TPFFYP018CS140A
TPFFYP018RE140A
TPFFYP024CS140A
TPFFYP024RE140A
TPKFYP004LM140A
TPKFYP006LM140A
TPKFYP008LM140A
TPKFYP012LM140A
TPKFYP015LM140A
TPKFYP018LM140A
TPKFYP024KM142A
TPKFYP030KM142A
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TPLFYP008EM140B
TPLFYP008FM140A
TPLFYP012EM140B
TPLFYP012FM140A
TPLFYP015EM140B
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TPLFYP018EM141B
TPLFYP018FM140A
TPLFYP024EM140B
TPLFYP030EM140B
TPLFYP036EM140B
TPLFYP048EM140B
TPMFYP006BM140F
TPMFYP008BM140F
TPMFYP012BM140F
TPMFYP015BM140F

CM Ducted
TPEFYP006MA144A
TPEFYP006MS140C
TPEFYP008MA144A
TPEFYP008MS140C
TPEFYP012MA144A
TPEFYP012MS140C
TPEFYP015MA144A
TPEFYP015MH142A
TPEFYP015MS140C
TPEFYP018MA144A
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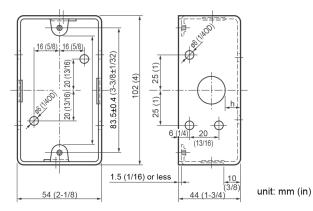
## TAR-CT01MAU-SB

#### DIMENSIONS



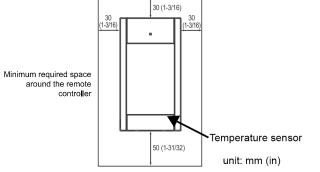


#### MOUNTING DIAGRAM



#### INSTALLATION SPACE

External dimensions of remote controller







### **A-Control Disconnect Switch**

Catalog #: TAZ-MS303

UPC# 07847702032

30 Amp, 600 Volt, Toggle Three-pole AC Switch, Industrial Grade, Non-grounding, Side Wired, - Black

#### **Product Features:**

Ground: Non-grounding Amperage: 30 Amp Voltage: 600 Volt

HP Rating: 3HP-120V 7-1/2HP-240V 15HP-480V 20HP-600V

Termination: Side Actuator Material: Valox Body Material: Rynite

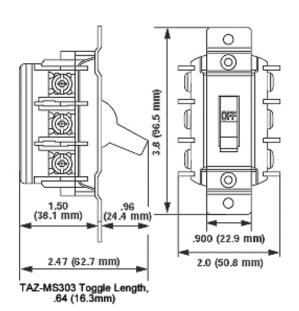
Strap Material: Nickel-plated brass

Color: Black
Standards and Certifications: UL/CUL

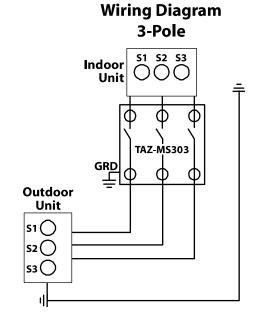
Warranty: 10 year limited

Installation: 2" x 4" electrical wall box with switch cover plate

(by others)



Three-pole

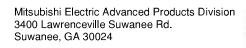


#### SPECIFICATION SUBMITTAL

1	JOB NAME:	CATALOG NUMBERS:	Use with:
		TAZ-MS303	Coo with.
	JOB NUMBER:		

Specifications subject to change without notice

Effective: 10/2/2006





#### Field Installed Options - Part/Order Number Summary

This is a report to help you locate field installed options that arrive at the jobsite. This report provides part or order numbers for each field installed option, and references it to a specific product tag. It is NOT intended as a bill of material for the job.

**Product Family - VRF Controls** 

Item	Tag(s)	Qty	Description	Model Number
B1	JV_CTRL-1	1	VRF Controls (JV_CTRL)	

Field Installed Option Description	Part/Ordering Number
TAR-CT01MAU-SB	TAR-CT01MAU-SB
MAC-334IF-E M-NET & Control Interface	MAC-334IF-E