

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
P.O. Box 16620
Little Rock, AR 72231
Phone 501-834-3320
Fax 501-834-5416

Date: 1/17/2024

Return Request: 1/27/2024

Project: Academies of Math & Science Little Rock

Supplier: Trane

Manufacturer: Mitsubishi

Submittal: Ductless Mini Split

Submittal Number: 23 00 00-09

Drawing # and Installation: Mechanical Drawings

ARCHITECT

Lewis Architects Engineers
11225 Huron Lane, Suite 104
Little Rock, AR 72211
501-223-9302

ENGINEER

Lewis Architects Engineers
11225 Huron Lane, Suite 104
Little Rock, AR 72211
501-223-9302

GENERAL CONTRACTOR

Clark Contractors
15825 Cantrell Rd.
Little Rock, AR 72223
501-223-9302

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Rd.
N. Little Rock, AR 72117
501-834-3320

Notes:

CSUSA PROJECT NO.

23-1028

jon@comfortar.com

9924 Landers Rd.
No. Little Rock, AR 72117



Ductless Submittal

Prepared For:
Lewis Architects Engineers

Date: 12/7/2023

Sold To:
Comfort Systems USA (AR)

Job Name:
Academies of Math & Science

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

Product Summary

| Qty | Product | Tags |
|-----|-------------------------------------|----------------------------|
| 1 | 09 MBH HP Cassette System | Tags: HP-1 / FC-1 |
| 1 | 20 MBH HP MultiZone Cassette System | Tags: HP-2 / FC-2A & FC-2B |
| 1 | 20 MBH HP MultiZone Cassette System | Tags: HP-3 / FC-3A & FC-3B |
| 1 | 48 MBH HP Ducted System | Tags: HP-4 / FC-4 |
| 1 | 18 MBH HP Cassette System | Tags: HP-5 / FC-5 |
| 1 | 12 MBH HP Cassette System | Tags: HP-5A / FC-5A |
| 1 | 12 MBH HP Cassette System | Tags: HP-6 / FC-6 |
| 1 | 24 MBH Multizone Cassette System | Tags: HP-7 / FC-7A & FC-7B |
| 1 | 18 MBH HP Wall Mounted System | Tags: DSCU-1 / DSHW-1 |
| 1 | 18 MBH HP Wall Mounted System | Tags: DSCU-2 / DSHW-2 |
| 1 | 18 MBH HP Wall Mounted System | Tags: DSCU-3 / DSHW-3 |

Equipment Submitted Based on Plans Dated 11-07-23.

Notes:

- Wired Wall Mounted Thermostat (Field Installed)
- Condensate Pump (Field Installed) – Wall Mounted Units Only
- Condensate Lift Mechanism Integral to Unit – All Cassettes
- Low Ambient Kit – Hail Guards (Field Installed)

Exclusions: Installation, Power Wiring, Rigging, **Extended Warranty, Labor Warranty, Condenser Stands**, Test & Balance, Sheaves, DDC Controls, **Startup**, Controls Wiring, Controls Programming, BAS Integration, Actuators, Seismic Restraints, Seismic Curbs, Sound Attenuating Isolation For Roof Curbs, Isolating Ball Valves, External Filter Racks, Filters, Extra Belts, **Refrigerant Line Sets**, Filter Driers, Vibration Isolation Of Any Kind, Auxiliary Drain Pans, Extra Refrigerant, Unit Pads, Smoke Detectors, Fire Stats, and Any Other Item Not Specifically Mentioned Above.

Austin Johnson
Project Manager, Equipment
Trane U.S. Inc.
10303 Colonel Glenn Rd,
Little Rock, AR 72204
Phone: (501) 246-9215
Austin.Johnson@Trane.com

Chance Hollingsworth
Senior Account Manager
Trane U.S. Inc.
10303 Colonel Glenn Rd.
Little Rock, AR 72204
Phone: (501) 478-2923
Cell: (501) 830-8265
Chance.Hollingsworth@Trane.com

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 14 days 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.

NTXCKS09A112AA & NTXSKS09A112AA
9,000 BTU/H 2' X 2' 4-WAY CEILING CASSETTE
9,000 BTU/H HEAT PUMP UNIVERSAL OUTDOOR UNIT



Job Name:

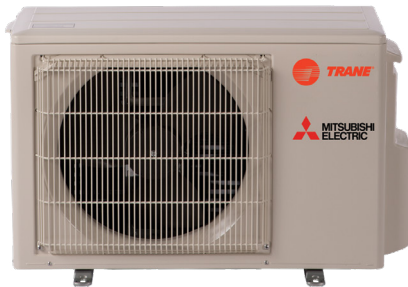
System Reference:

Date:



Indoor Unit.....NTXCKS09A112AA

Outdoor Unit.....NTXSKS09A112AA



INDOOR UNIT FEATURES

- Ceiling-recessed cassette (24"x24") ductless heat pump
- Install Konnect Series in a drywalled ceiling (with an access panel for servicing) or in a 2'x2' drop ceiling
- Wide airflow pattern for excellent air distribution
- Optional 3D i-see Sensor®
- Fresh air intake provided in the main body
- Built-in drain condensate lift mechanism (lifts to 33")
- Multiple control options available:
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers
- Long-life air filter included
- Individual vane control

OUTDOOR UNIT FEATURES

- Variable speed INVERTER-driven compressor
- Innovative Joint Lap DC Motor leads to high efficiency and reliability
- Pulse Amplitude Modulation technology
- High-performance grooved piping for increased heat exchange efficiency

SPECIFICATIONS: NTXCKSO9A112AA & NTXSKSO9A112AA

| | | | |
|---|--|--|--|
| Cooling at 95°F ¹ | Maximum Capacity | BTU/H | 9,000 |
| | Rated Capacity | BTU/H | 9,000 |
| | Minimum Capacity | BTU/H | 3,600 |
| | Maximum Power Input | W | 670 |
| | Rated Power Input | W | 670 |
| | Moisture Removal | Pints/h | 1.0 |
| | Sensible Heat Factor | | 0.87 |
| Heating at 47°F ² | Maximum Capacity | BTU/H | 12,000 |
| | Rated Capacity | BTU/H | 11,000 |
| | Minimum Capacity | BTU/H | 4,010 |
| | Maximum Power Input | W | 940 |
| | Rated Power Input | W | 4,010 |
| | Power Factor [208V / 230V] | % | 98.0 / 98.0 |
| Heating at 17°F ³ | Maximum Capacity | BTU/H | 6,900 |
| | Rated Capacity | BTU/H | 6,900 |
| | Maximum Power Input | W | 810 |
| | Rated Power Input | W | 810 |
| Heating at 5°F ⁴ | Maximum Capacity | BTU/H | 5,600 |
| Maximum Power Input | W | 540 | |
| Heating at -4°F ⁵ | Maximum Capacity | BTU/H | 7,200 |
| Efficiency | SEER SEER2 | | 22.4 24.0 |
| | EER ¹ EER2 ¹ | | 13.4 13.4 |
| | HSPF [IV] HSPF2 [IV] | | 12.2 10.0 |
| | COP at 47°F ² | | 3.9 |
| | COP at 17°F at Maximum Capacity ³ | | 2.5 |
| | COP at 5°F at Maximum Capacity ⁴ | | 3.04 |
| Electrical | 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 (Outdoor) | A | 15 |
| | Recommended Wire Size [Indoor - Outdoor] | AWG | 14 |
| | Power Supply | | Indoor unit is powered by the outdoor unit |
| | MCA | A | 0.25 |
| Fan Motor Full Load Amperage | A | 0.2 | |
| Fan Motor Type | | DC Motor | |
| Airflow Rate at Cooling, Dry | CFM | 230–265–300 | |
| Airflow Rate at Cooling, Wet | CFM | 207–239–270 | |
| Airflow Rate at Heating, Dry | CFM | 230–265–335 | |
| Sound Pressure Level [Cooling] | dB[A] | 25–28–31 | |
| Sound Pressure Level [Heating] | dB[A] | 25–28–31 | |
| Drain Pipe Size | In. [mm] | 1-1/4 [32] | |
| Condensate Lift Mechanism, Maximum Distance | In. [mm] | 33 [850] | |
| Coating on Heat Exchanger | | — | |
| External Finish Color | | Munsell 1.0Y 9.2/0.1 | |
| Unit Dimensions | W x D x H: In. [mm] | 22-7/16 x 22-7/16 x 9-21/32 [570 x 570 x 245] | |
| Package Dimensions | W x D x H: In. [mm] | 24-13/32 x 27-15/16 x 9-7/16 [620 x 710 x 240] | |
| Unit Weight | Lbs. [kg] | 31 [13.9] | |
| Package Weight | Lbs. [kg] | 37 [17] | |
| Indoor Unit Operating Temperature Range | Cooling Intake Air Temp [Maximum / Minimum]* | °F | 90 DB, 72 WB / 68 DB, 61 WB |
| | Heating Intake Air Temp [Maximum / Minimum] | °F | 77 DB / 59 DB |

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 |
| | ² Heating at 47°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 47 DB, 43 WB |
| | ³ Heating at 17°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 17 DB, 15 WB |
| Conditions | ⁴ Heating at 5°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 5 DB, 4 WB |
| | ⁵ Heating at -4°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // -4 DB, -5 WB |

*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.

**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: NTXCKS09A112AA & NTXSKS09A112AA

| | | | | |
|--|--|--|--|----------------|
| Outdoor Unit | MCA | A | 9.0 | |
| | MOCP | A | 15 | |
| | Fan Motor Full Load Amperage | A | 0.5 | |
| | Fan Motor Output | W | 55 | |
| | Airflow Rate [Cooling / Heating] | CFM | 1229 / 1172 | |
| | Refrigerant Control | | LEV | |
| | Defrost Method | | Reverse Cycle | |
| | Coating on Heat Exchanger | | Blue Fin Coating | |
| | Sound Pressure Level, Cooling ¹ | dB(A) | 48 | |
| | Sound Pressure Level, Heating ² | dB(A) | 50 | |
| | Compressor Type | | DC INVERTER-driven | |
| | Compressor Model | | KNB073FRVMC | |
| | Compressor Rated Load Amps | A | 6.2 | |
| | Compressor Locked Rotor Amps | A | 7.7 | |
| | Compressor Oil [Type // Charge] | oz. | FV50S // 9.1 | |
| | External Finish Color | | Ivory 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 14-15/16 x 24-13/16 [940 x 380 x 630] | |
| | Unit Weight | Lbs. [kg] | 81 [37] | |
| | Package Weight | Lbs. [kg] | 88 [40] | |
| | Outdoor Unit Operating Temperature Range | Cooling Air Temp [Maximum / Minimum]* | °F | 115 DB / 14 DB |
| | | Cooling Thermal Lock-out / Re-start Temperatures** | °F | -1 / 3 |
| Heating Air Temp [Maximum / Minimum] | | °F | 75 DB, 65 WB / -4 DB, -5 WB | |
| Heating Thermal Lock-out / Re-start Temperatures** | | °F | -14 / -4 | |
| Refrigerant | Type | | R410A | |
| | Pre-Charged Refrigerant Amount | Lbs, oz | 2.0, 5.0 | |
| | 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] | |
| Piping | Gas Pipe Size O.D. [Flared] | In.[mm] | 3/8 [9.52] | |
| | Liquid Pipe Size O.D. [Flared] | In.[mm] | 1/4 [6.35] | |
| | 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)

| | | |
|--|----|------------------------------|
| ¹ Cooling (Indoor // Outdoor) | °F | 80 DB, 67 WB // 95 DB, 75 WB |
| ² Heating at 47°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 47 DB, 43 WB |
| ³ Heating at 17°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 17 DB, 15 WB |

Conditions

| | | |
|--|----|------------------------------|
| ⁴ Heating at 5°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 5 DB, 4 WB |
| ⁵ Heating at -4°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // -4 DB, -5 WB |

*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.

**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: NTXCKS09A112AA

| | | |
|------------------------------------|---|-------------------|
| Control Interface | 3-Pin Connector | PAC-715AD |
| | Airzone ZBS Wired Blueface Principal Controller White | AZZBSBLUEFACECB |
| | Airzone ZBS Wired Blueface Principal Controller White | AZZBSBLUEZEROCB |
| | Airzone ZBS Wired Lite Controller White | AZZBSLITECB |
| | Airzone ZBS Wireless Lite Controller White | AZZBSLITERB |
| | Airzone ZBS Wireless Think Controller White | AZZBSTHINKRB |
| | BACnet® and Modbus® Interface | PAC-UKPRC001-CN-1 |
| | CN24 Relay Kit | CN24RELAY-KIT-CM3 |
| | Connector and wire for Operation status/error using CN51 | PAC-725AD |
| | Connector cable for remote display | PAC-SA88HA-EP |
| | IT Extender | PAC-WHS01IE-E |
| | kumo station® for kumo cloud® | TAC-WHS01HC-E |
| | Remote Operation Adapter† | PAC-SF40RM-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 | |
| Remote Sensor | Flush Mount Remote Temperature Sensor | PAC-USSEN002-FM-1 |
| | Flush Mount Temperature Sensor | PAC-USSEN001-FM-1 |
| | Remote Temperature Sensor | PAC-SE41TS-E |
| | Wireless temperature and humidity sensor for kumo cloud® | PAC-USWHS003-TH-1 |
| Wired Remote Controller | Deluxe Wired MA Remote Controller† | TAR-40MAAU |
| | Simple Ductless Wired Remote Controller | PAC-SDW01RC-1 |
| | Simple MA Remote Controller† | TAC-YT53CRAU-J |
| | Touch MA Controller† | TAR-CT01MAU-SB |
| Wireless Remote Controller | kumo touch™ RedLINK™ Wireless Controller | MHK2 |
| | Wireless MA Receiver | PAR-SR32MA-E |
| | Wireless MA Remote Controller | TAR-FL32MA-E |
| | Wireless Receiver | PAR-WSC009FA-E |
| | Wireless Remote Controller | PAR-SL101A-E |
| Condensate | 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 |
| | Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H | COMBI |
| Disconnect Switch | (30A/600V/UL) [fits 2" X 4" utility box] - Black | TAZ-MS303 |
| Lineset | 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 |
| | 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:

†PAC-SF40RM-E (Unable to use with wireless remote controller)

OUTDOOR UNIT ACCESSORIES: NTXSKS09A112AA

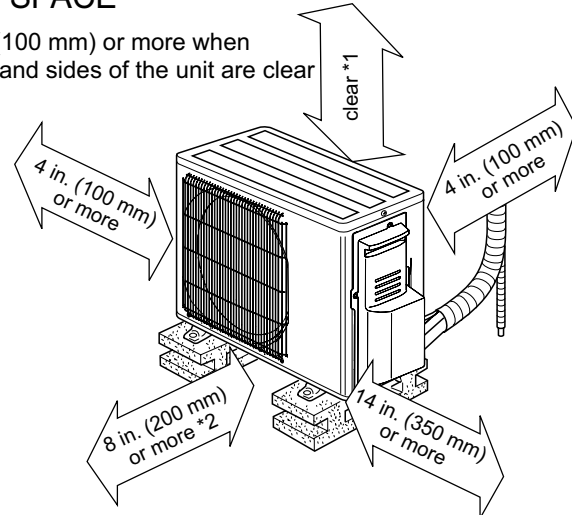
| | | |
|----------------------|--|-------------|
| Air Outlet Guide | Air Outlet Guide | MAC-889SG |
| Control/Service Tool | M- & P-Series Maintenance Tool Cable Set | M21EC0397 |
| | USB/UART Conversion Cable (Required for all laptop connection) | M21EC1397 |
| Hail Guards | Hail Guard | HG-B4 |
| 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 |
| Mounting Pad | Condensing Unit Mounting Pad: 16" x 36" x 3" | ULTRILITE1 |
| | Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic | DSD-400P |
| Stand | 18" Single Fan Stand | QSMS1801M |
| | 24" Single Fan Stand | QSMS2401M |
| | Condenser Wall Bracket | QSWB2000M-1 |
| | Outdoor Unit Stand — 12" High | QSMS1201M |

OUTDOOR UNIT DIMENSIONS: NTXSKS09A112AA

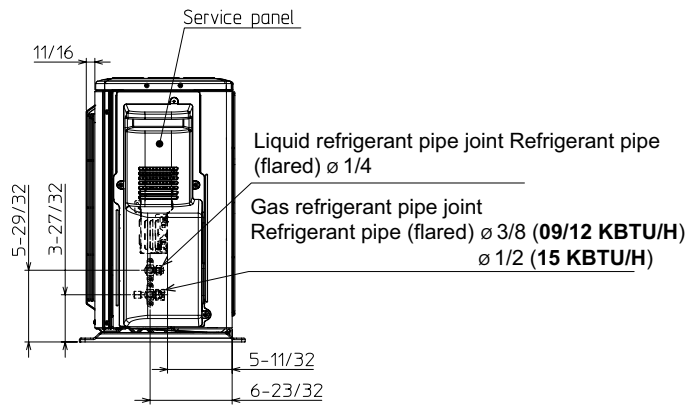
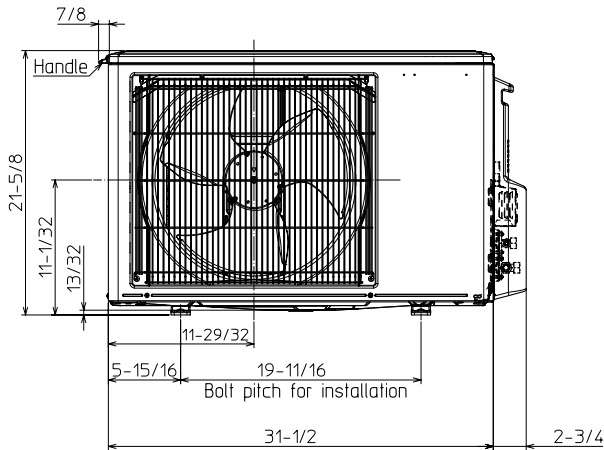
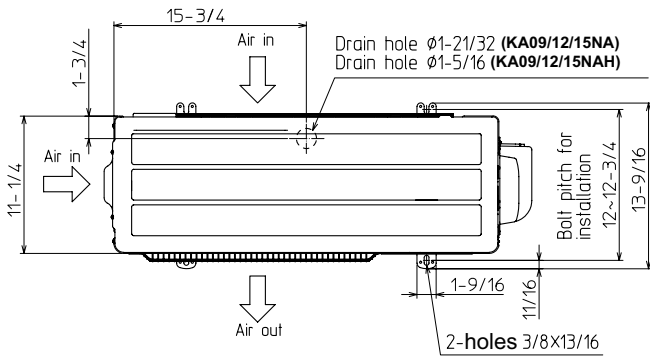
Unit: inch(mm)

REQUIRED SPACE

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



*2 When any 2 sides of left, right and rear of the unit are clear



NTXMMX20A122B*
1.5-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM



Job Name:

System Reference:

Date:



FEATURES

- Variable speed INVERTER-driven compressor
- ENERGY STAR® certified
- M-NET connection through outdoor unit
- Quiet outdoor unit operation as low as 50 dB(A)
- Intelligent Power Module (IPM) for reduced power loss
- Selectable thermal lockout/restart function
- Optional base pan heater
- High pressure switch for additional protection
- Thermal differential of +/-1° F from setpoint

ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.

SPECIFICATIONS: NTXMMX20A122B*

| | | | |
|------------------------|--|---------|----------------------|
| Indoor unit connection | Maximum Number of Connected IDU | | 2 |
| | Minimum Number of Connected IDU | | 2 |
| | Minimum connected capacity | BTU/H | 12,000 |
| | Maximum connected capacity | BTU/H | 24,000 |
| Piping | Liquid Pipe Size O.D. (Flared) | In.[mm] | A,B: 1/4 [A,B: 6.35] |
| | Gas Pipe Size O.D. (Flared) | In.[mm] | A,B: 3/8 [A,B: 9.52] |
| | Total Piping Length | Ft. [m] | 164 [50] |
| | Maximum Height Difference, ODU above IDU | Ft. [m] | 33 [10] |
| | 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 | | 50 |

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 |
| ² Heating at 47°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 47 DB, 43 WB |
| ³ Heating at 17°F (Indoor // Outdoor) | °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.

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

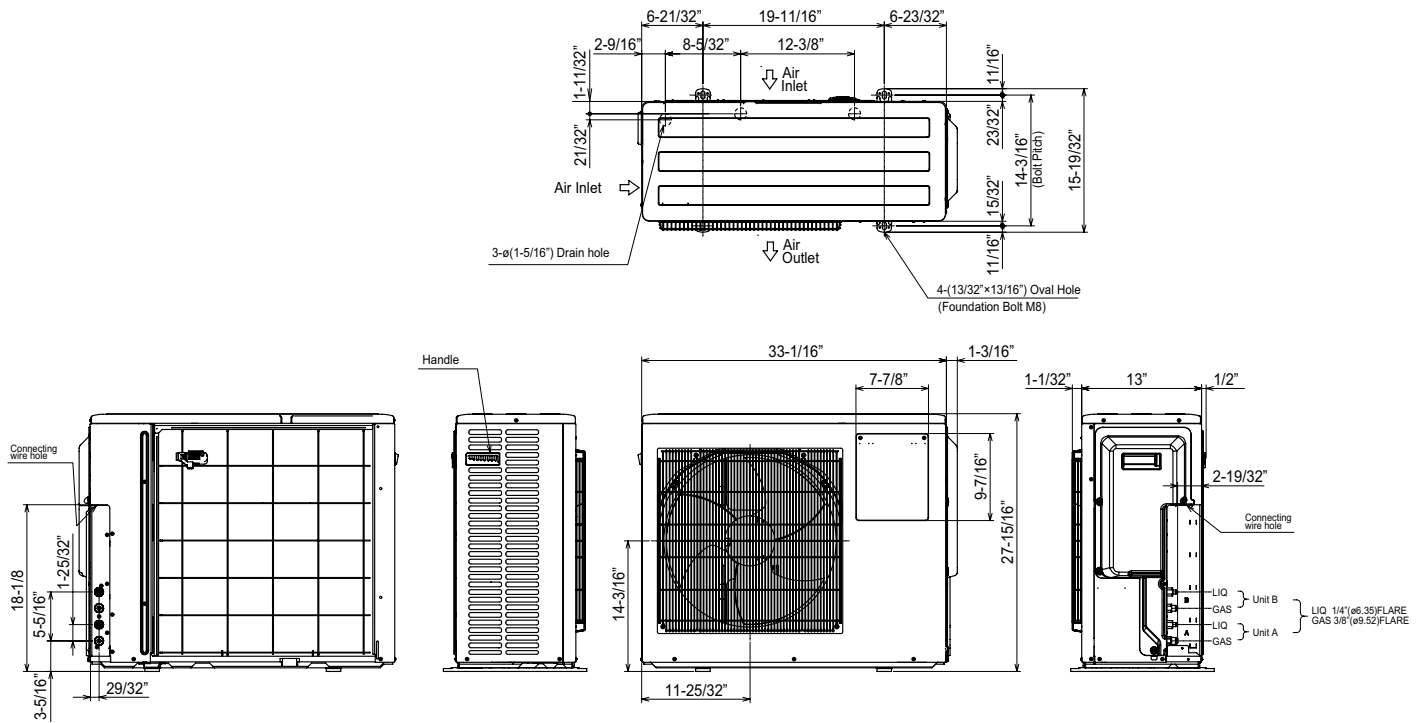
For actual capacity performance based on indoor unit type and number of indoor units connected, please refer to MXZ Operational Performance. Although the maximum connectable capacity is 130%, the outdoor unit cannot provide more than 100% of the rated capacity. Please utilize this over capacity capability for load shedding or applications where it is known that all connected units will NOT be operating at the same time.

OUTDOOR UNIT ACCESSORIES: NTXMMX20A122B*

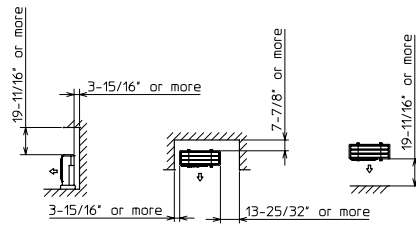
| | | |
|-------------------------|--|----------------|
| Air Outlet Guide | Air Outlet Guide | PAC-ADG856AA-E |
| Ball Valve | Refrigeration Ball Valve - 1/2" | BV12FFSI2 |
| | Refrigeration Ball Valve - 1/4" | BV14FFSI2 |
| | Refrigeration Ball Valve - 3/8" | BV38FFSI2 |
| | Refrigeration Ball Valve - 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 | MAC-811DS |
| Hail Guards | Hail Guard | HG-A8 |
| 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 | Base Heater | PAC-646BH-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: NTXMMX20A122B*

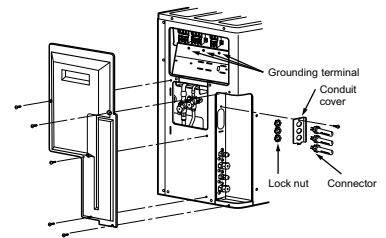
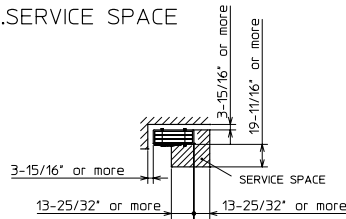
Unit: inch (mm)



1. FREE SPACE



2. SERVICE SPACE





Nv-SERIES

SUBMITTAL DATA: NTXCKS09A112A*

9,000 BTU/H 2' X 2' 4-WAY CEILING-CASSETTE INDOOR UNIT FOR MULTI-ZONE HEAT PUMP SYSTEMS

| | |
|-------------------|-------|
| Job Name: | |
| System Reference: | Date: |



GENERAL FEATURES

- Ceiling-recessed cassette (24"x24") ductless heat pump
- Install Konnect Series in a drywalled ceiling (with an access panel for servicing) or in a 2'x2' drop ceiling
- Wide airflow pattern for excellent air distribution
- Fresh air intake provided in the main body
- Built-in drain condensate lift mechanism (lifts to 33")
- Multiple control options available:
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers
- Long-life air filter included
- Individual vane control

SPECIFICATIONS: NTXCKS09A112A*

| | | | |
|---|-------------------------------------|----------------------|-------------------------|
| Cooling Capacity ^{1, 3} | | BTU/H | 9,000 |
| Heating Capacity ^{2, 3} | | BTU/H | 11,000 |
| Electrical | Voltage, Phase, Frequency | | 208/230V, 1 phase, 60Hz |
| | Guaranteed Voltage Range | | V AC 187-253 |
| | Voltage: Indoor - Outdoor, S1-S2 | | V AC 208/230 |
| | Voltage: Indoor - Outdoor, S2-S3 | | V DC 24 |
| | Voltage: Indoor - Remote controller | | V DC 12 |
| MCA | | A | 0.25 |
| Fan Motor Full Load Amperage | | A | 0.20 |
| Fan Motor Output | | W | 50 |
| Airflow Rate at Cooling, Dry | | CFM | 300-265-230 |
| Airflow Rate at Cooling, Wet | | CFM | 270-239-207 |
| Airflow Rate at Heating, Dry | | CFM | 335-265-230 |
| Sound Pressure Level (Cooling) ¹ | | dB(A) | 31-28-25 |
| Sound Pressure Level (Heating) ² | | dB(A) | 31-28-25 |
| External Static Pressure | | in.WG | N/A |
| Drain Pipe Size | | In. (mm) | 1 1/4 (32) |
| Condensate Lift Mechanism, Maximum Distance | | In. (mm) | 33 (850) |
| Heat Exchanger Type | | Plate fin coil | |
| External Finish Color | | Munsell 1.0Y 9.2/0.2 | |
| Unit Dimensions | W: In. (mm) | | 22-7/16 (570) |
| | D: In. (mm) | | 22-7/16 (570) |
| | H: In. (mm) | | 9-21/32 (245) |
| Package Unit Dimensions | W: In. (mm) | | 24-13/32 (620) |
| | D: In. (mm) | | 27-15/16 (710) |
| | H: In. (mm) | | 9-7/16 (240) |
| Unit Weight | | Lbs. (kg) | 31 (13.9) |
| Package Unit Weight | | Lbs. (kg) | 37 (17) |
| Refrigerant | Type | | R410A |
| | Charge | | Lbs, oz 2, 5 |
| Piping | Gas Pipe Size O.D. (Flared) | | In.(mm) 3/8 (9.52) |
| | Liquid Pipe Size O.D. (Flared) | | In.(mm) 1/4 (6.35) |

Notes:

| | | | |
|--------------------|--|----|------------------------------|
| Nominal Conditions | ¹ Cooling (Indoor // Outdoor) | °F | 80 DB, 67 WB // 95 DB, 75 WB |
| | ² Heating at 47°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 47 DB, 43 WB |

³Capacity varies based on the number of indoor units operating and the model of the Multi-zone Outdoor Unit. For reference to connected capacity charts, please refer Multi-zone Outdoor Unit Operational Performance.

ACCESSORIES: NTXCKS09A112A*

| | |
|---|-------------------------|
| Wireless Signal Receiver | □ PAR-SR32MA-W |
| Wireless Signal Receiver | □ TAR-FL32MA-E |
| Wireless Remote Receiver Panel | □ PAR-WSC009FA-E |
| Wireless Remote Controller | □ PAR-SL100A-E |
| kumo touch™ RedLINK™ Wireless Controller | □ MHK2 |
| Deluxe MA Remote Controller | □ TAR-40MAAU |
| Simple MA Controller | □ TAC-YT53CRAU-J |
| Touch MA Controller | □ TAR-CT01MAU-SB |
| Wired Remote Sensor | □ PAC-SE41TS-E |
| Wireless Temperature and Humidity Sensor | □ PAC-USWHS003-TH-1 |
| Flush Mount Remote Temperature Sensor | □ PAC-USSEN001-FM-1 |
| System Control Interface | □ MAC-334IF-E |
| Wireless Interface 2 | □ PAC-USWHS002-WF-2 |
| Thermostat Interface | □ PAC-US444CN-1 |
| kumo station® | □ TAC-WHS01HC-E |
| USNAP Interface | □ PAC-WHS01UP-E |
| IT Extender | □ PAC-WHS01IE-E |
| BACnet® and MODBUS® Interface | □ PAC-UKPRC001-CN-1 |
| External Fan / Heater Control Relay Adapter | □ CN24RELAY-KIT-CM3 |
| Wire for Remote on/off with CN32 connector | □ PAC-715AD |
| Connector and wire for Operation status/error using CN51 | □ PAC-725AD |
| Connector cable for remote display | □ PAC-SA88HA-EP |
| Wire for Remote on/off with CN32 connector | □ PAC-715AD |
| Remote Operation Adapter ¹ | □ PAC-SF40RM-E |
| Grille (required) | □ TLP-18FAU |
| 3D i-see Sensor® Corner Panel | □ PAC-SF1ME-E |
| Grille with 3D i-see Sensor® | □ TLP-18FAEU |
| Blue Diamond Sensor Extension Cable — 15 Ft. | □ C13-103 |
| Blue Diamond Alarm Extension Cable — 6.5 Ft. | □ C13-192 |
| Blue Diamond MultiTank — collection tank for use with multiple pumps | □ C21-014 |
| Blue Diamond Rubber Foot Pads | □ F10-010 |
| Mini Condensate Pump — 230 volt application | □ SI30-230 |
| MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor | □ X87-835 - 110 to 250V |
| Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended] | □ X87-721 - 208/230V |
| (30A/600V/UL) [fits 2" X 4" utility box] - Black | □ TAZ-MS303 |
| (30A/600V/UL) [fits 2" X 4" utility box] - White | □ TAZ-MS303W |

¹ Unable to use with wireless remote controller

NTXMSM48A182BA 4-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM



Job Name:

System Reference:

Date:



FEATURES

- Compatible with NV- and P-Series and CITY MULTI® indoor units. Branch box required for connection with NV- and P-Series
- Variable speed INVERTER-driven compressor
- Seacoast protection on heat exchanger and base panel (rated for 2,000 hrs in accordance with ASTM B117 testing)
- Thermal Differential 1°F (with TAC-MKA32/52BC only)
- Optional base pan heater
- Quiet outdoor unit operation, rated sound pressure as low as 51 dB(A)
- High pressure protection
- Compressor thermal protection
- Compressor overcurrent detection
- Fan motor overheating/voltage protection

ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.

Specifications are subject to change without notice.

© 2023 Mitsubishi Electric Trane HVAC US LLC. All rights reserved.

SPECIFICATIONS: NTXMSM48A182BA

| | | | | |
|--|--|-------------|-------------------------|------------------|
| Outdoor unit | Airflow Rate (Cooling / Heating) | CFM | 3,885 / 3,885 | |
| | Refrigerant Control | | LEV | |
| | Defrost Method | | Reverse Cycle | |
| | Heat Exchanger Type | | Plate fin coil | |
| | Heat Exchanger Coating | | Blue Fin Coating | |
| | Sound Pressure Level, Cooling ¹ | dB(A) | 51 | |
| | Sound Pressure Level, Heating ² | dB(A) | 54 | |
| | Compressor Type | | Hermetic | |
| | Compressor Model | | ANB33FNHMT | |
| | Compressor Motor Output | kW | 3.4 | |
| | Compressor Rated Load Amps | A | 19 | |
| | Compressor Locked Rotor Amps | A | 22.0 | |
| | Compressor Oil Type // Charge | oz. | FV50S // 78 | |
| | Base Pan Heater | | Optional (PAC-SJ20BH-E) | |
| | Unit Dimensions | W: In. [mm] | | 41-11/32 [1,050] |
| | | D: In. [mm] | | 13 [330] |
| | | H: In. [mm] | | 52-11/16 [1,338] |
| | Package Dimensions | W: In. [mm] | | 43 [1,090] |
| | | D: In. [mm] | | 18 [450] |
| | | H: In. [mm] | | 57 [1,430] |
| Unit Weight | Lbs.[kg] | | 271 [123] | |
| Package Weight | Lbs.[kg] | | 295 [134] | |
| Outdoor unit operating temperature range | Cooling Intake Air Temp (Maximum / Minimum) ³ | °FDB | 115 / 5 ^c | |
| | Cooling Thermal Lock-out / Re-start Temperatures | °FDB | N/A / N/A | |
| | Heating Intake Air Temp (Maximum / Minimum) | °FDB | 59 / -13 | |
| | Heating Thermal Lock-out / Re-start Temperatures | °FDB | -24 / -14 | |
| Refrigerant | Pre-Charged Refrigerant Amount | Lbs, oz | 10.0, 9.0 | |
| Indoor unit connection | Maximum Number of Connected IDU with Branch Box | | 8 (6) ^A | |
| | Maximum Number of Connected IDU without Branch Box | | 12 | |
| | Minimum Connected Capacity with Branch Box | | 12,000 | |
| | Minimum Connected Capacity without Branch Box | | 24,000 | |
| | Maximum connected capacity | | 62,000 | |
| Piping | Liquid Pipe Size O.D. (Flared) | In.[mm] | 3/8 [9.52] | |
| | Gas Pipe Size O.D. (Flared) | In.[mm] | 5/8 [15.88] | |
| | Total Piping Length when using Branch Box | Ft. [m] | 492 [150] | |
| | Total Piping Length without Branch Box | Ft. [m] | 984 [300] | |
| | Maximum Height Difference ^B , ODU above IDU | Ft. [m] | 164 [50] | |
| | Maximum Height Difference ^B , ODU below IDU | Ft. [m] | 131 [40] | |
| | Maximum Height Difference ^B , between branch boxes | Ft. [m] | 49 [15] | |
| | Maximum Height Difference between IDU and IDU without branch box | Ft. [m] | 49 [15] | |
| | | Ft. [m] | 49 [15] | |
| | Maximum Piping Length between ODU and Branch Box | Ft. [m] | 180 [55] | |
| | Farthest Piping Length from ODU to IDU with Branch Box | Ft. [m] | 262 [80] | |
| | Farthest Piping Length from ODU to IDU without Branch Box | Ft. [m] | 492 [150] | |
| | Farthest Piping Length after Branch Box | Ft. [m] | 82 [25] | |
| | Total Piping Length between Branch Boxes and IDU | Ft. [m] | 311 [95] | |
| Maximum Number of Bends for IDU | | 15 | | |

NOTES:

AHRI Rated Conditions ¹Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB
 (Rated data is determined at a fixed compressor speed) ²Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB
³Heating at 17°F (Indoor // Outdoor) °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

¹Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

^A when 1 or more PLA-A-EA7 connected

^B Branch box should be placed within the level between the outdoor unit and indoor units

^C 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.

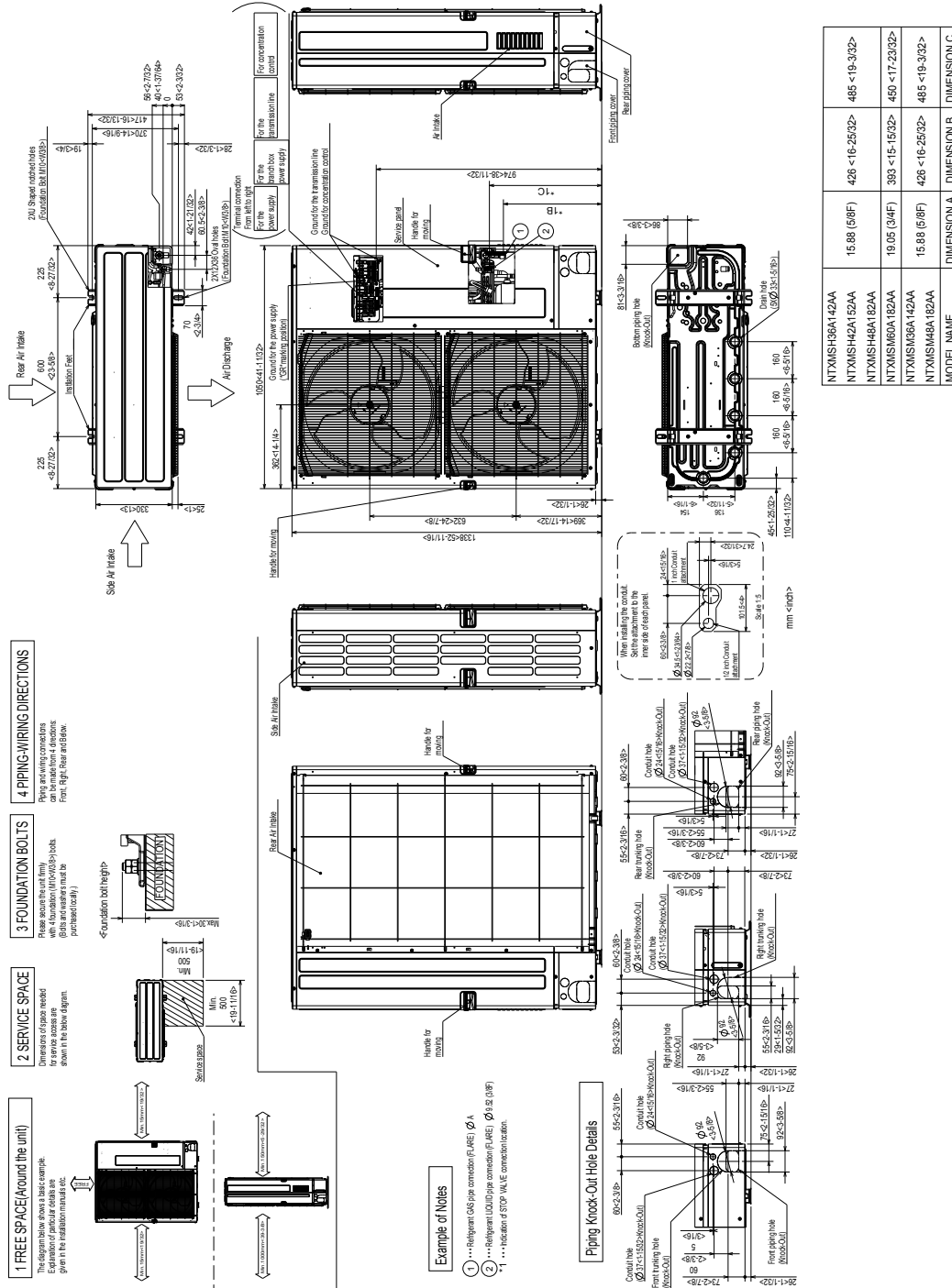
Mid and high external static pressure tests conducted at 0.3 and 0.5 in.w.g. respectively, according to AHRI 210/240. The external static pressures utilized have no bearing on the capabilities of the indoor unit; please refer to the indoor unit manual to select the correct external static pressure setting for the application.

OUTDOOR UNIT ACCESSORIES: NTXMSM48A182BA

| | | |
|-------------------------|--|--|
| Air Deflector | Vertical Air Deflector | ADV-1 |
| Air Outlet Guide | Air Outlet Guide (1 Piece) | PAC-SH96SG-E (two pieces are required) |
| 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 |
| Branch Box | 3 Port Branch Box | TAC-MKA32BC |
| | 5 Port Branch Box | TAC-MKA52BC |
| | Branch Box Enclosure | BBE-1 |
| Centralized Drain Pan | Central Drain Pan | PAC-SH97DP-E |
| 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 |
| Control/Service Tool | Maintenance Tool Interface | PAC-USCMS-MN-1 |
| Distribution pipe | Brazed Connection | MSDD-50BR-E |
| | Flare Connection | MSDD-50AR-E |
| Drain Socket | Drain Socket | PAC-SG60DS-E |
| Hail Guards | Hail Guard | HG-A2 |
| 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: 24" x 42" x 3" | ULTRILITE2 |
| | Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic | DSD-400P |
| Optional Defrost Heater | Optional Defrost Heater | PAC-SJ20BH-E |
| Port Adaptor | Adaptor: 1/2" x 3/8" | MAC-A455JP-E |
| | Adaptor: 1/2" x 5/8" | MAC-A456JP-E |
| | Adaptor: 1/4" x 3/8" | PAC-493PI |
| | Adaptor: 3/8" x 1/2" | MAC-A454JP-E |
| | Adaptor: 3/8" x 5/8" | PAC-SG76RJ-E |
| Stand | 18" Dual Fan Stand | QSMS1802M |
| | 24" Dual Fan Stand | QSMS2402M |
| | Condenser Wall Bracket | QSWB2000M-1 |
| | Condenser Wall Bracket - Stainless Steel Finish | QSWBSS |
| | Outdoor Unit Stand — 12" High | QSMS1202M |
| Wind Baffle | Front Wind Baffle | WB-PA3 (two pieces are required) |

OUTDOOR UNIT DIMENSIONS: NTXMSM48A182BA

Unit: mm
<inch>



| MODEL NAME | DIMENSION A | DIMENSION B | DIMENSION C |
|----------------|--------------|---------------|---------------|
| NTXMSH36A142AA | 15,88 (618F) | 486 <16-2532> | 486 <19-332> |
| NTXMSH42A152AA | 19,05 (749F) | 383 <15-1532> | 450 <17-2332> |
| NTXMSH60A162AA | 15,88 (618F) | 426 <16-2532> | 486 <19-332> |
| NTXMSH80A182AA | 15,88 (618F) | 426 <16-2532> | 486 <19-332> |

Job Name:

System Reference:

Date:



GENERAL FEATURES

- Dual set point functionality
- Multiple fan speed settings
- Auto fan mode
- 9-7/8" (250mm) high for low ceiling heights
- Built-in condensate lift; lifts to 27-9/16" (700 mm)
- Ducted fan coil supporting multiple configurations for flexible installation

| Specifications | | System | |
|--|--------------------------|-----------------------|--|
| Unit Type | | TPEFYP048MA144A | |
| Cooling capacity (Nominal) ¹ | | BTU/H | 48,000 |
| Heating capacity (Nominal) ¹ | | BTU/H | 54,000 |
| Power source | | Voltage, Phase, Hertz | 208/230V, 1-phase, 60 Hz |
| Power Consumption | Cooling | kW | 0.242 |
| | Heating | kW | 0.24 |
| Current | Cooling | A | 2.06/1.87 |
| | Heating | A | 2.06/1.87 |
| MCA | | A | 4.38 |
| Maximum Overcurrent Protection (MOCP) | | A | 15 |
| External finish | | | Galvanized steel sheet |
| External Dimensions | | In. [mm] | 55-1/8 x 28-7/8 x 9-7/8 [1,400 x 732 x 250] |
| Net weight | | Lbs [kg] | 86 [39] |
| Heat exchanger | | | Cross fin (Aluminum fin and copper tube) |
| Fan | Type x quantity | | Sirocco fan x 3 |
| | External Static pressure | in.WG | 0.14, 0.2, 0.28, 0.4, 0.6 factory set to 0.2 In. WG |
| | Airflow rate | CFM | 918-1,112-1,306 |
| | Motor type | | DC Motor |
| | Motor Output | kW | 0.3 |
| | Motor FLA | A | 3.5 |
| Sound pressure level (Measured in anechoic room) | | dB(A) | 35-40-44 |
| Air filter | | | PP Honeycomb fabric |
| Refrigerant | Type | | R410A |
| Diameter of refrigerant pipe (O.D.) | Liquid (High Pressure) | In. [mm] | 3/8 [9.52] Brazed |
| | Gas (Low Pressure) | In. [mm] | 5/8 [15.88] Brazed |
| Diameter of drain pipe | | In. [mm] | O.D. 1-1/4 [32] |

NOTES:

¹Cooling / Heating capacity indicated at the maximum value at operation under the following conditions:

Cooling | Indoor: 80° F (26.7° C) DB / 67° F (19.4° C) WB; Outdoor 95° F (35° C) DB

Heating | Indoor: 70° F (21.1° C) DB; Outdoor 47° F (8.3° C) DB / 43° F (6.1° C) WB

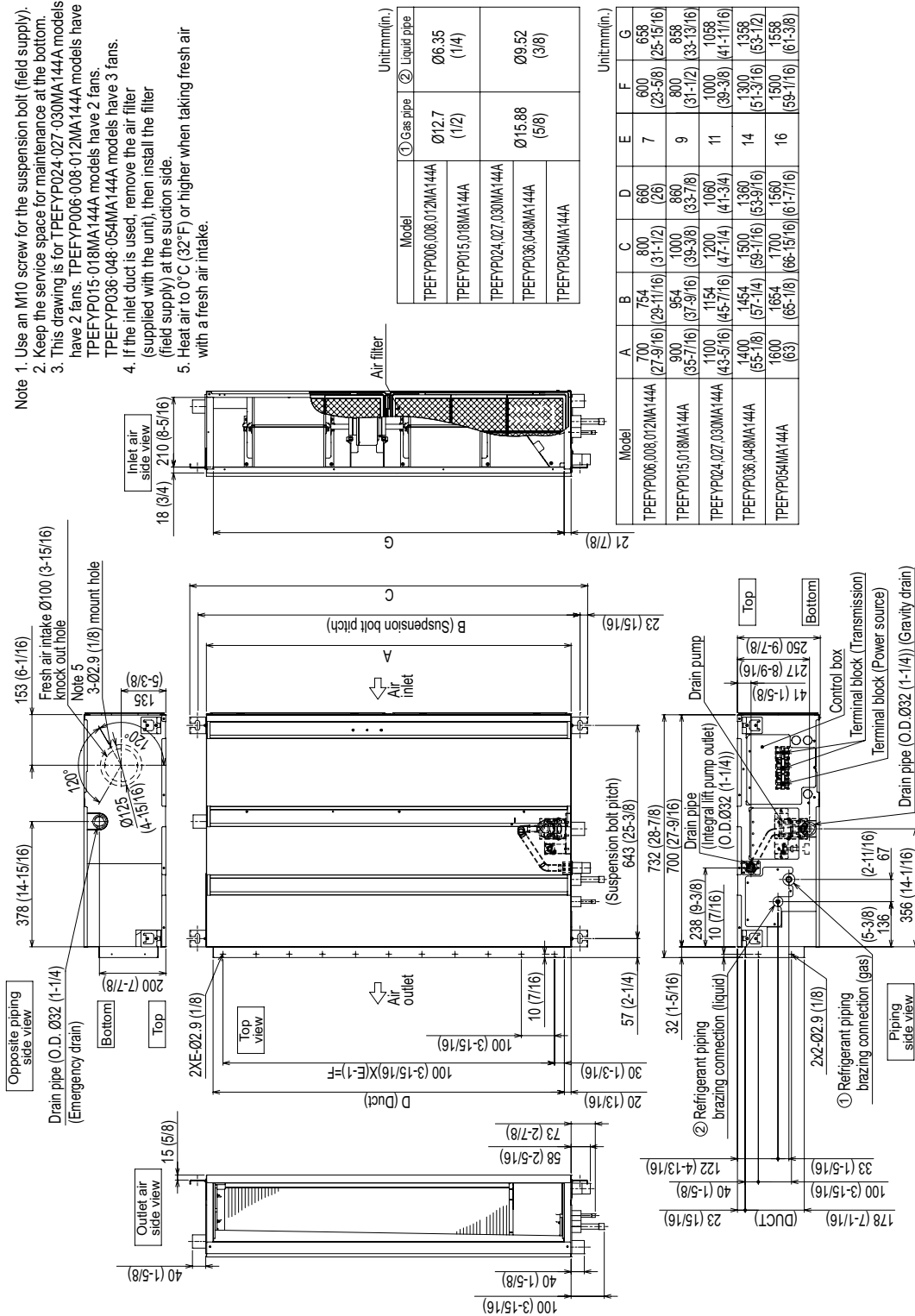
INDOOR UNIT ACCESSORIES: TPEFYP048MA144A

| | | |
|----------------------------|---|-------------------|
| Control Interface | 3-Pin Connector | PAC-715AD |
| | BACnet® and Modbus® Interface | PAC-UKPRC001-CN-1 |
| | CN24 Relay Kit | CN24RELAY-KIT-CM3 |
| | Connector and wire for Operation status/error using CN51 | PAC-725AD |
| | IT Extender | PAC-WHS01IE-E |
| | kumo station® for kumo cloud® | TAC-WHS01HC-E |
| | Thermostat Interface | PAC-US444CN-1 |
| | Thermostat Interface | PAC-US445CN-1 |
| Remote Sensor | Wireless Interface for kumo cloud® | PAC-USWHS002-WF-2 |
| | Flush Mount Remote Temperature Sensor | PAC-USSEN002-FM-1 |
| | Flush Mount Temperature Sensor | PAC-USSEN001-FM-1 |
| | Remote Temperature Sensor | PAC-SE41TS-E |
| Terminal Signal Adapter | Wireless temperature and humidity sensor for kumo cloud® | PAC-USWHS003-TH-1 |
| | Terminal Signal Adapter | PAC-IT51AD-E |
| Wired Remote Controller | Deluxe Wired MA Remote Controller† | TAR-40MAAU |
| | Simple MA Remote Controller† | TAC-YT53CRAU-J |
| | Smart ME Remote Controller - Backlit touchscreen | TAR-U01MEDU-K |
| | Touch MA Controller† | TAR-CT01MAU-SB |
| Wireless Remote Controller | kumo touch™ RedLINK™ Wireless Controller | MHK2 |
| | Wireless MA Receiver | PAR-SR32MA-E |
| | Wireless MA Remote Controller | TAR-FL32MA-E |
| Condensate | Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended] | X87-721 |
| | Blue Diamond (MegaBlue Advanced) Condensate Pump w/ Reservoir & Sensor | X87-835 |
| | Blue Diamond MultiTank — collection tank for use with multiple pumps | C21-014 |
| | Blue Diamond Sensor Extension Cable — 15 Ft. | C13-103 |
| | Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H | COMBI |
| | Sauermann Condensate Pump | SI30-230 |
| Filter Box | Filter Box with MERV 13 Filter | FBM2-4-A |
| Lineset | 10' x 3/8" x 10' x 5/8" Lineset (Twin-Tube Insulation)†† | MPLS385812T-10 |
| | 100' x 3/8" x 100' x 5/8" Lineset (Twin-Tube Insulation)†† | MPLS385812T-100 |
| | 15' x 3/8" x 15' x 5/8" Lineset (Twin-Tube Insulation)†† | MPLS385812T-15 |
| | 30' x 3/8" x 30' x 5/8" Lineset (Twin-Tube Insulation)†† | MPLS385812T-30 |
| | 50' x 3/8" x 50' x 5/8" Lineset (Twin-Tube Insulation)†† | MPLS385812T-50 |
| | 65' x 3/8" x 65' x 5/8" Lineset (Twin-Tube Insulation)†† | MPLS385812T-65 |

INDOOR UNIT DIMENSIONS: TPEFYP048MA144A

Unit : mm(in.)

- Note 1. Use an M10 screw for the suspension bolt (field supply).
2. Keep the service space for maintenance at the bottom.
3. This drawing is for TPEFYP024,027,030MA144A models, which have 2 fans. TPEFYP006,008,012MA144A models have 1 fan. TPEFYP015,018MA144A models have 2 fans. TPEFYP036,048,054MA144A models have 3 fans.
4. If the inlet duct is used, remove the air filter (supplied with the unit), then install the filter (field supply) at the suction side.
5. Heat air to 0°C (32°F) or higher when taking fresh air with a fresh air intake.



| Model | ① Gas pipe | ② Liquid pipe | Unit:mm(in.) |
|-------------------------|------------|---------------|--------------|
| TPEFYP006,008,012MA144A | Ø12.7 | Ø6.35 | (1/2) (1/4) |
| TPEFYP015,018MA144A | | | |
| TPEFYP024,027,030MA144A | | | |
| TPEFYP036,048MA144A | Ø15.88 | Ø9.52 | (5/8) (3/8) |
| TPEFYP054MA144A | | | |

| Model | A | B | C | D | E | F | G | Unit:mm(in.) |
|-------------------------|-------------------|-------------------|--------------------|-------------------|----|-------------------|--------------------|--------------|
| TPEFYP006,008,012MA144A | 700 (27-9/16) | 764 (29-11/16) | 800 (31-1/2) | 660 (26) | 7 | 600 (23-5/8) | 658 (25-15/16) | |
| TPEFYP015,018MA144A | 900 (35-7/16) | 954 (37-9/16) | 1000 (39-3/8) | 860 (33-7/8) | 9 | 800 (31-1/2) | 858 (33-13/16) | |
| TPEFYP024,027,030MA144A | 1100 (43-5/16) | 1154 (45-7/16) | 1200 (47-1/4) | 1060 (41-3/4) | 11 | 1000 (39-3/8) | 1058 (41-11/16) | |
| TPEFYP036,048MA144A | 1400 (55-1/8) | 1454 (57-1/4) | 1500 (59-1/16) | 1360 (53-9/16) | 14 | 1300 (51-3/16) | 1358 (53-1/2) | |
| TPEFYP054MA144A | 1600 (63) | 1654 (65-1/8) | 1700 (66-15/16) | 1560 (61-7/16) | 16 | 1500 (59-1/16) | 1558 (61-3/8) | |

NTXCKS18A112AA & NTXSKS18A112AA
18,000 BTU/H 2' X 2' 4-WAY CEILING CASSETTE
18,000 BTU/H HEAT PUMP UNIVERSAL OUTDOOR UNIT



Job Name:

System Reference:

Date:



Indoor Unit.....NTXCKS18A112AA

Outdoor Unit.....NTXSKS18A112AA



INDOOR UNIT FEATURES

- Ceiling-recessed cassette (24"x24") ductless heat pump
- Install Konnect Series in a drywalled ceiling (with an access panel for servicing) or in a 2'x2' drop ceiling
- Wide airflow pattern for excellent air distribution
- Optional 3D i-see Sensor®
- Fresh air intake provided in the main body
- Built-in drain condensate lift mechanism (lifts to 33")
- Multiple control options available:
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers
- Long-life air filter included
- Individual vane control

OUTDOOR UNIT FEATURES

- Variable speed INVERTER-driven compressor
- Innovative Joint Lap DC Motor leads to high efficiency and reliability
- Pulse Amplitude Modulation technology
- High-performance grooved piping for increased heat exchange efficiency

SPECIFICATIONS: NTXCKS18A112AA & NTXSKS18A112AA

| | | | |
|---|--|---------------------|--|
| Cooling at 95°F ¹ | Maximum Capacity | BTU/H | 17,700 |
| | Rated Capacity | BTU/H | 17,700 |
| | Minimum Capacity | BTU/H | 6,100 |
| | Maximum Power Input | W | 1,410 |
| | Rated Power Input | W | 1,410 |
| | Moisture Removal | Pints/h | 4.7 |
| | Sensible Heat Factor | | 0.71 |
| Heating at 47°F ² | Maximum Capacity | BTU/H | 20,900 |
| | Rated Capacity | BTU/H | 19,700 |
| | Minimum Capacity | BTU/H | 8,400 |
| | Maximum Power Input | W | 2,100 |
| | Rated Power Input | W | 8,400 |
| | Power Factor [208V / 230V] | % | 98.0 / 98.0 |
| Heating at 17°F ³ | Maximum Capacity | BTU/H | 12,900 |
| | Rated Capacity | BTU/H | 12,900 |
| | Maximum Power Input | W | 1,410 |
| | Rated Power Input | W | 1,410 |
| Heating at 5°F ⁴ | Maximum Capacity | BTU/H | 9,800 |
| | Maximum Power Input | W | 1,210 |
| Heating at -4°F ⁵ | Maximum Capacity | BTU/H | 7,500 |
| Efficiency | SEER SEER2 | | 20.7 21.0 |
| | EER ¹ EER2 ¹ | | 12.5 12.5 |
| | HSPF [IV] HSPF2 [IV] | | 11.6 10.0 |
| | COP at 47°F ² | | 3.1 |
| | COP at 17°F at Maximum Capacity ³ | | 2.68 |
| | COP at 5°F at Maximum Capacity ⁴ | | 2.37 |
| Electrical | 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 (Outdoor) | A | 15 |
| | Recommended Wire Size [Indoor - Outdoor] | AWG | 14 |
| | Power Supply | | Indoor unit is powered by the outdoor unit |
| Indoor Unit | MCA | A | 0.54 |
| | Fan Motor Full Load Amperage | A | 0.43 |
| | Fan Motor Type | | DC Motor |
| | Airflow Rate at Cooling, Dry | CFM | 300–420–475 |
| | Airflow Rate at Cooling, Wet | CFM | 270–378–429 |
| | Airflow Rate at Heating, Dry | CFM | 300–420–475 |
| | Sound Pressure Level [Cooling] | dB[A] | 32–40–43 |
| | Sound Pressure Level [Heating] | dB[A] | 32–40–43 |
| | Drain Pipe Size | In. [mm] | 1-1/4 [32] |
| | Condensate Lift Mechanism, Maximum Distance | In. [mm] | 33 [850] |
| | Coating on Heat Exchanger | | — |
| | External Finish Color | | Munsell 1.0Y 9.2/0.2 |
| | Unit Dimensions | W x D x H: In. [mm] | 22-7/16 x 22-7/16 x 9-21/32 [570 x 570 x 245] |
| | Package Dimensions | W x D x H: In. [mm] | 24-13/32 x 27-15/16 x 9-7/16 [620 x 710 x 240] |
| Unit Weight | Lbs. [kg] | 31 [13.9] | |
| Package Weight | Lbs. [kg] | 37 [17] | |
| Indoor Unit Operating Temperature Range | Cooling Intake Air Temp [Maximum / Minimum]* | °F | 90 DB, 72 WB / 68 DB, 61 WB |
| | Heating Intake Air Temp [Maximum / Minimum] | °F | 77 DB / 59 DB |

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 |
| ² Heating at 47°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 47 DB, 43 WB |
| ³ Heating at 17°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 17 DB, 15 WB |

Conditions

| | | |
|--|----|------------------------------|
| ⁴ Heating at 5°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 5 DB, 4 WB |
| ⁵ Heating at -4°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // -4 DB, -5 WB |

*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.

**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: NTXCKS18A112AA & NTXSKS18A112AA

| | | | | |
|--|--|--|---|----------------|
| Outdoor Unit | MCA | A | 14.0 | |
| | MOCP | A | 24 | |
| | Fan Motor Full Load Amperage | A | 0.7 | |
| | Fan Motor Output | W | 77 | |
| | Airflow Rate [Cooling / Heating] | CFM | 1691 / 1691 | |
| | Refrigerant Control | | LEV | |
| | Defrost Method | | Reverse Cycle | |
| | Coating on Heat Exchanger | | Blue Fin Coating | |
| | Sound Pressure Level, Cooling ¹ | dB(A) | 54 | |
| | Sound Pressure Level, Heating ² | dB(A) | 55 | |
| | Compressor Type | | DC INVERTER-driven Twin Rotary | |
| | Compressor Model | | SNB130FQBMT | |
| | Compressor Rated Load Amps | A | 10 | |
| | Compressor Locked Rotor Amps | A | 12.5 | |
| | Compressor Oil [Type // Charge] | oz. | FV50S //11.8 | |
| | External Finish Color | | Ivory Munsell 3Y 7.8/1.1 | |
| | Base Pan Heater | | Optional | |
| | Unit Dimensions | W x D x H: In. [mm] | 33-1/16 x 13 x 34-5/8 [840 x 330 x 880] | |
| | Package Dimensions | W x D x H: In. [mm] | 38-3/4 x 16-3/4 x 39 [980 x 420 x 990] | |
| | Unit Weight | Lbs. [kg] | 127 [58] | |
| | Package Weight | Lbs. [kg] | 145 [66] | |
| | Outdoor Unit Operating Temperature Range | Cooling Air Temp [Maximum / Minimum]* | °F | 115 DB / 14 DB |
| | | Cooling Thermal Lock-out / Re-start Temperatures** | °F | -1 / 3 |
| Heating Air Temp [Maximum / Minimum] | | °F | 75 DB, 65 WB / -4 DB, -5 WB | |
| Heating Thermal Lock-out / Re-start Temperatures** | | °F | -14 / -4 | |
| Refrigerant | Type | | R410A | |
| | Pre-Charged Refrigerant Amount | Lbs, oz | 3.0, 9.0 | |
| | 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] | |
| Piping | Gas Pipe Size O.D. [Flared] | In.[mm] | 1/2 [12.7] | |
| | Liquid Pipe Size O.D. [Flared] | In.[mm] | 1/4 [6.35] | |
| | Maximum Piping Length | Ft. [m] | 100 [30] | |
| | Maximum Height Difference | Ft. [m] | 50 [15] | |
| | Maximum Number of Bends | | 10 | |

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 |
| ² Heating at 47°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 47 DB, 43 WB |
| ³ Heating at 17°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 17 DB, 15 WB |

Conditions

| | | |
|--|----|------------------------------|
| ⁴ Heating at 5°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 5 DB, 4 WB |
| ⁵ Heating at -4°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // -4 DB, -5 WB |

*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.

**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: NTXCKS18A112AA

| | | |
|------------------------------------|---|-------------------|
| Control Interface | 3-Pin Connector | PAC-715AD |
| | Airzone ZBS Wired Blueface Principal Controller White | AZZBSBLUEFACECB |
| | Airzone ZBS Wired Blueface Principal Controller White | AZZBSBLUEZEROCB |
| | Airzone ZBS Wired Lite Controller White | AZZBSLITECB |
| | Airzone ZBS Wireless Lite Controller White | AZZBSLITERB |
| | Airzone ZBS Wireless Think Controller White | AZZBSTHINKRB |
| | BACnet® and Modbus® Interface | PAC-UKPRC001-CN-1 |
| | CN24 Relay Kit | CN24RELAY-KIT-CM3 |
| | Connector and wire for Operation status/error using CN51 | PAC-725AD |
| | Connector cable for remote display | PAC-SA88HA-EP |
| | IT Extender | PAC-WHS01IE-E |
| | kumo station® for kumo cloud® | TAC-WHS01HC-E |
| | Remote Operation Adapter† | PAC-SF40RM-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 | |
| Remote Sensor | Flush Mount Remote Temperature Sensor | PAC-USSEN002-FM-1 |
| | Flush Mount Temperature Sensor | PAC-USSEN001-FM-1 |
| | Remote Temperature Sensor | PAC-SE41TS-E |
| | Wireless temperature and humidity sensor for kumo cloud® | PAC-USWHS003-TH-1 |
| Wired Remote Controller | Deluxe Wired MA Remote Controller† | TAR-40MAAU |
| | Simple Ductless Wired Remote Controller | PAC-SDW01RC-1 |
| | Simple MA Remote Controller† | TAC-YT53CRAU-J |
| | Touch MA Controller† | TAR-CT01MAU-SB |
| Wireless Remote Controller | kumo touch™ RedLINK™ Wireless Controller | MHK2 |
| | Wireless MA Receiver | PAR-SR32MA-E |
| | Wireless MA Remote Controller | TAR-FL32MA-E |
| | Wireless Receiver | PAR-WSC009FA-E |
| | Wireless Remote Controller | PAR-SL101A-E |
| Condensate | 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 |
| | Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H | COMBI |
| Disconnect Switch | (30A/600V/UL) [fits 2" X 4" utility box] - Black | TAZ-MS303 |
| Lineset | 100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation) | MLS141212T-100 |
| | 15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation) | MLS141212T-15 |
| | 30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation) | MLS141212T-30 |
| | 50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation) | MLS141212T-50 |
| | 65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation) | MLS141212T-65 |

NOTES:

†PAC-SF40RM-E (Unable to use with wireless remote controller)

OUTDOOR UNIT ACCESSORIES: NTXSKS18A112AA

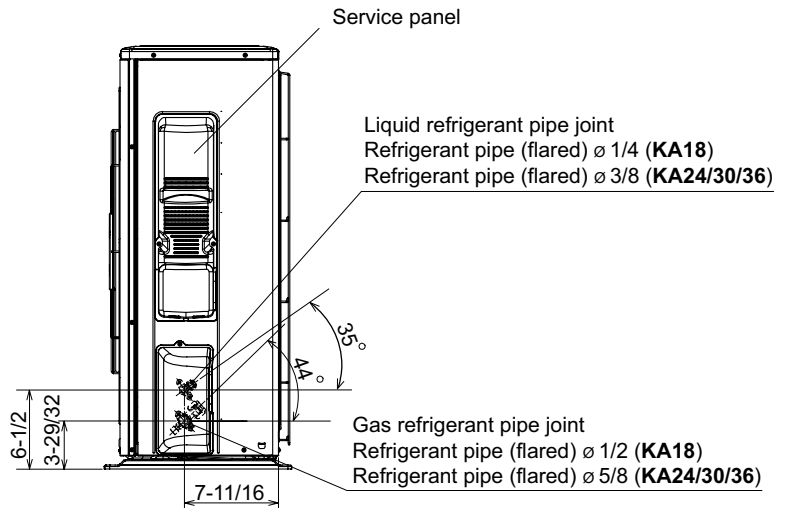
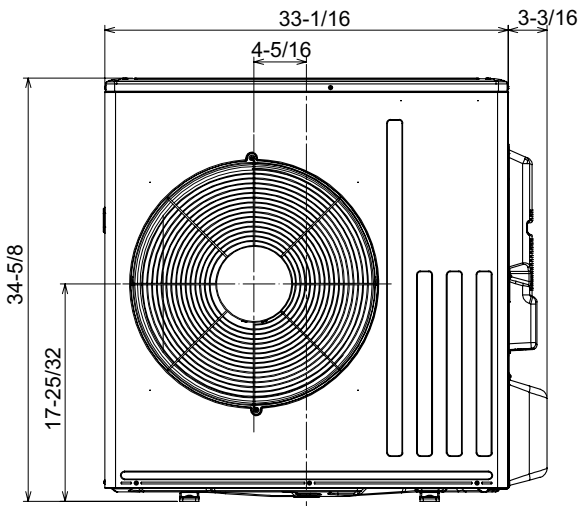
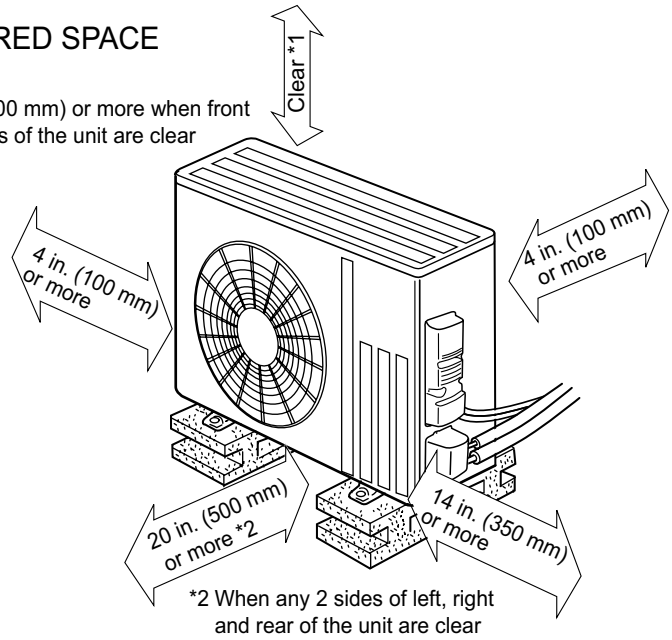
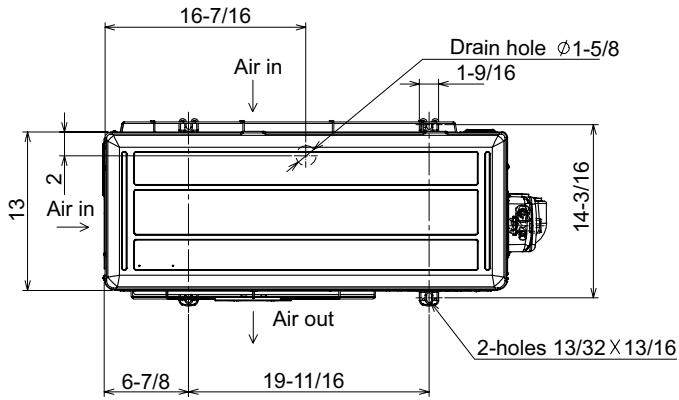
| | | |
|-------------------------|--|--------------|
| Air Outlet Guide | Air Outlet Guide | MAC-886SG-E |
| Control/Service Tool | M- & P-Series Maintenance Tool Cable Set | M21EC0397 |
| | USB/UART Conversion Cable (Required for all laptop connection) | M21EC1397 |
| Mini-Split Wire | 14 Gauge, 4 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 | Base Heater | MAC-642BH-U1 |
| Stand | 18" Single Fan Stand | QSMS1801M |
| | 24" Single Fan Stand | QSMS2401M |
| | Condenser Wall Bracket | QSWB2000M-1 |
| | Outdoor Unit Stand — 12" High | QSMS1201M |

OUTDOOR UNIT DIMENSIONS: NTXSKS18A112AA

Unit: inch

REQUIRED SPACE

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



NTXCKS12A112AA & NTXSKS12A112AA
12,000 BTU/H 2' X 2' 4-WAY CEILING CASSETTE
12,000 BTU/H HEAT PUMP UNIVERSAL OUTDOOR UNIT



Job Name:

System Reference:

Date:



Indoor Unit.....NTXCKS12A112AA

Outdoor Unit.....NTXSKS12A112AA



INDOOR UNIT FEATURES

- Ceiling-recessed cassette (24"x24") ductless heat pump
- Install Konnect Series in a drywalled ceiling (with an access panel for servicing) or in a 2'x2' drop ceiling
- Wide airflow pattern for excellent air distribution
- Optional 3D i-see Sensor®
- Fresh air intake provided in the main body
- Built-in drain condensate lift mechanism (lifts to 33")
- Multiple control options available:
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers
- Long-life air filter included
- Individual vane control

OUTDOOR UNIT FEATURES

- Variable speed INVERTER-driven compressor
- Innovative Joint Lap DC Motor leads to high efficiency and reliability
- Pulse Amplitude Modulation technology
- High-performance grooved piping for increased heat exchange efficiency

SPECIFICATIONS: NTXCKS12A112AA & NTXSKS12A112AA

| | | | |
|---|--|---------------------|--|
| Cooling at 95°F ¹ | Maximum Capacity | BTU/H | 12,000 |
| | Rated Capacity | BTU/H | 12,000 |
| | Minimum Capacity | BTU/H | 3,900 |
| | Maximum Power Input | W | 900 |
| | Rated Power Input | W | 900 |
| | Moisture Removal | Pints/h | 2.8 |
| | Sensible Heat Factor | | 0.74 |
| Heating at 47°F ² | Maximum Capacity | BTU/H | 13,000 |
| | Rated Capacity | BTU/H | 13,000 |
| | Minimum Capacity | BTU/H | 4,800 |
| | Maximum Power Input | W | 1,310 |
| | Rated Power Input | W | 4,800 |
| | Power Factor [208V / 230V] | % | 98.0 / 98.0 |
| Heating at 17°F ³ | Maximum Capacity | BTU/H | 8,900 |
| | Rated Capacity | BTU/H | 8,900 |
| | Maximum Power Input | W | 1,130 |
| | Rated Power Input | W | 1,130 |
| Heating at 5°F ⁴ | Maximum Capacity | BTU/H | 6,100 |
| Maximum Power Input | W | 760 | |
| Heating at -4°F ⁵ | Maximum Capacity | BTU/H | 4,400 |
| Efficiency | SEER SEER2 | | 22.0 22.0 |
| | EER ¹ EER2 ¹ | | 13.3 13.3 |
| | HSPF [IV] HSPF2 [IV] | | 11.4 9.7 |
| | COP at 47°F ² | | 2.9 |
| | COP at 17°F at Maximum Capacity ³ | | 2.31 |
| COP at 5°F at Maximum Capacity ⁴ | | 2.35 | |
| Electrical | 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 (Outdoor) | A | 15 |
| | Recommended Wire Size [Indoor - Outdoor] | AWG | 14 |
| | Power Supply | | Indoor unit is powered by the outdoor unit |
| Indoor Unit | MCA | A | 0.3 |
| | Fan Motor Full Load Amperage | A | 0.24 |
| | Fan Motor Type | | DC Motor |
| | Airflow Rate at Cooling, Dry | CFM | 230–265–335 |
| | Airflow Rate at Cooling, Wet | CFM | 207–252–302 |
| | Airflow Rate at Heating, Dry | CFM | 230–265–335 |
| | Sound Pressure Level [Cooling] | dB[A] | 25–30–34 |
| | Sound Pressure Level [Heating] | dB[A] | 25–30–34 |
| | Drain Pipe Size | In. [mm] | 1-1/4 [32] |
| | Condensate Lift Mechanism, Maximum Distance | In. [mm] | 33 [850] |
| | Coating on Heat Exchanger | | — |
| | External Finish Color | | Munsell 1.0Y 9.2/0.0 |
| | Unit Dimensions | W x D x H: In. [mm] | 22-7/16 x 22-7/16 x 9-21/32 [570 x 570 x 245] |
| | Package Dimensions | W x D x H: In. [mm] | 24-13/32 x 27-15/16 x 9-7/16 [620 x 710 x 240] |
| Unit Weight | Lbs. [kg] | 31 [13.9] | |
| Package Weight | Lbs. [kg] | 37 [17] | |
| Indoor Unit Operating Temperature Range | Cooling Intake Air Temp [Maximum / Minimum]* | °F | 90 DB, 72 WB / 68 DB, 61 WB |
| | Heating Intake Air Temp [Maximum / Minimum] | °F | 77 DB / 59 DB |

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 |
| | ² Heating at 47°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 47 DB, 43 WB |
| | ³ Heating at 17°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 17 DB, 15 WB |
| Conditions | ⁴ Heating at 5°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 5 DB, 4 WB |
| | ⁵ Heating at -4°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // -4 DB, -5 WB |

*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.

**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: NTXCKS12A112AA & NTXSKS12A112AA

| | | | | |
|--|--|--|--|----------------|
| Outdoor Unit | MCA | A | 9.0 | |
| | MOCP | A | 16 | |
| | Fan Motor Full Load Amperage | A | 0.5 | |
| | Fan Motor Output | W | 55 | |
| | Airflow Rate [Cooling / Heating] | CFM | 1229 / 1172 | |
| | Refrigerant Control | | LEV | |
| | Defrost Method | | Reverse Cycle | |
| | Coating on Heat Exchanger | | Blue Fin Coating | |
| | Sound Pressure Level, Cooling ¹ | dB(A) | 54 | |
| | Sound Pressure Level, Heating ² | dB(A) | 55 | |
| | Compressor Type | | DC INVERTER-driven Twin Rotary | |
| | Compressor Model | | SNB092FQAMT | |
| | Compressor Rated Load Amps | A | 6.6 | |
| | Compressor Locked Rotor Amps | A | 8.2 | |
| | Compressor Oil [Type // Charge] | oz. | FV50S // 11.8 | |
| | External Finish Color | | Ivory 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 14-15/16 x 24-13/16 [940 x 380 x 630] | |
| | Unit Weight | Lbs. [kg] | 81 [37] | |
| | Package Weight | Lbs. [kg] | 88 [40] | |
| | Outdoor Unit Operating Temperature Range | Cooling Air Temp [Maximum / Minimum]* | °F | 115 DB / 14 DB |
| | | Cooling Thermal Lock-out / Re-start Temperatures** | °F | -1 / 3 |
| Heating Air Temp [Maximum / Minimum] | | °F | 75 DB, 65 WB / -4 DB, -5 WB | |
| Heating Thermal Lock-out / Re-start Temperatures** | | °F | -14 / -4 | |
| Refrigerant | Type | | R410A | |
| | Pre-Charged Refrigerant Amount | Lbs, oz | 2.0, 9.0 | |
| | 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] | |
| Piping | Gas Pipe Size O.D. [Flared] | In.[mm] | 3/8 [9.52] | |
| | Liquid Pipe Size O.D. [Flared] | In.[mm] | 1/4 [6.35] | |
| | 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)

| | | |
|--|----|------------------------------|
| ¹ Cooling (Indoor // Outdoor) | °F | 80 DB, 67 WB // 95 DB, 75 WB |
| ² Heating at 47°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 47 DB, 43 WB |
| ³ Heating at 17°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 17 DB, 15 WB |

Conditions

| | | |
|--|----|------------------------------|
| ⁴ Heating at 5°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 5 DB, 4 WB |
| ⁵ Heating at -4°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // -4 DB, -5 WB |

*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.

**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: NTXCKS12A112AA

| | | |
|------------------------------------|---|-------------------|
| Control Interface | 3-Pin Connector | PAC-715AD |
| | Airzone ZBS Wired Blueface Principal Controller White | AZZBSBLUEFACECB |
| | Airzone ZBS Wired Blueface Principal Controller White | AZZBSBLUEZEROCB |
| | Airzone ZBS Wired Lite Controller White | AZZBSLITECB |
| | Airzone ZBS Wireless Lite Controller White | AZZBSLITERB |
| | Airzone ZBS Wireless Think Controller White | AZZBSTHINKRB |
| | BACnet® and Modbus® Interface | PAC-UKPRC001-CN-1 |
| | CN24 Relay Kit | CN24RELAY-KIT-CM3 |
| | Connector and wire for Operation status/error using CN51 | PAC-725AD |
| | Connector cable for remote display | PAC-SA88HA-EP |
| | IT Extender | PAC-WHS01IE-E |
| | kumo station® for kumo cloud® | TAC-WHS01HC-E |
| | Remote Operation Adapter† | PAC-SF40RM-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 | |
| Remote Sensor | Flush Mount Remote Temperature Sensor | PAC-USSEN002-FM-1 |
| | Flush Mount Temperature Sensor | PAC-USSEN001-FM-1 |
| | Remote Temperature Sensor | PAC-SE41TS-E |
| | Wireless temperature and humidity sensor for kumo cloud® | PAC-USWHS003-TH-1 |
| Wired Remote Controller | Deluxe Wired MA Remote Controller† | TAR-40MAAU |
| | Simple Ductless Wired Remote Controller | PAC-SDW01RC-1 |
| | Simple MA Remote Controller† | TAC-YT53CRAU-J |
| | Touch MA Controller† | TAR-CT01MAU-SB |
| Wireless Remote Controller | kumo touch™ RedLINK™ Wireless Controller | MHK2 |
| | Wireless MA Receiver | PAR-SR32MA-E |
| | Wireless MA Remote Controller | TAR-FL32MA-E |
| | Wireless Receiver | PAR-WSC009FA-E |
| | Wireless Remote Controller | PAR-SL101A-E |
| Condensate | 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 |
| | Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H | COMBI |
| Disconnect Switch | (30A/600V/UL) [fits 2" X 4" utility box] - Black | TAZ-MS303 |
| Lineset | 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 |
| | 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:

†PAC-SF40RM-E (Unable to use with wireless remote controller)

OUTDOOR UNIT ACCESSORIES: NTXSKS12A112AA

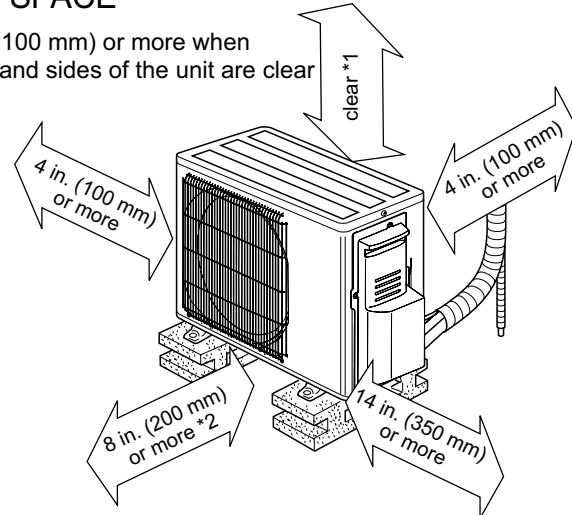
| | | |
|----------------------|--|--------------|
| Air Outlet Guide | Air Outlet Guide | MAC-889SG |
| Control/Service Tool | M- & P-Series Maintenance Tool Cable Set | M21EC0397 |
| | USB/UART Conversion Cable (Required for all laptop connection) | M21EC1397 |
| Hail Guards | Hail Guard | HG-B4 |
| 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 |
| Port Adaptor | Adaptor: 1/2" x 3/8" (required) | MAC-A455JP-E |
| Stand | 18" Single Fan Stand | QSMS1801M |
| | 24" Single Fan Stand | QSMS2401M |
| | Condenser Wall Bracket | QSWB2000M-1 |
| | Outdoor Unit Stand — 12" High | QSMS1201M |

OUTDOOR UNIT DIMENSIONS: NTXSKS12A112AA

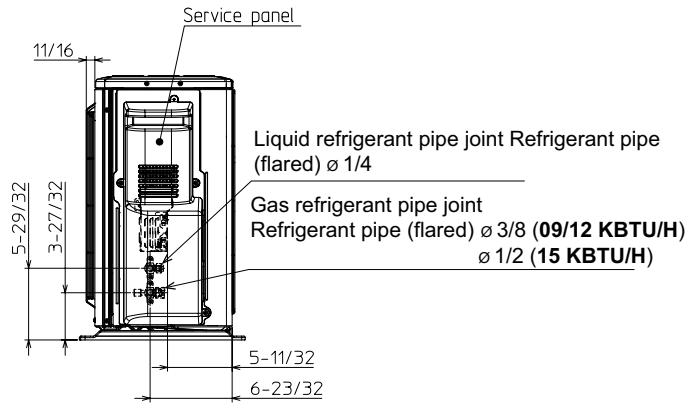
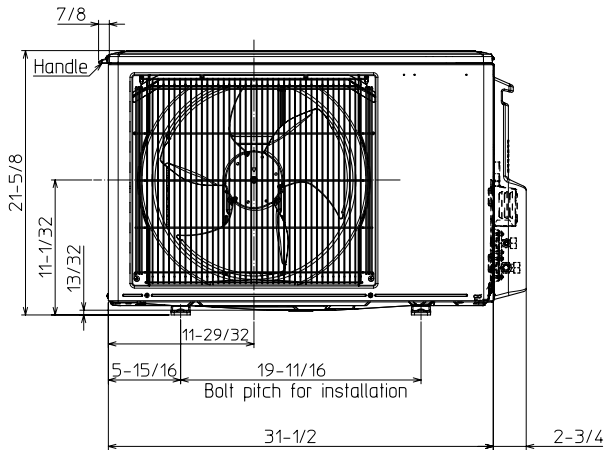
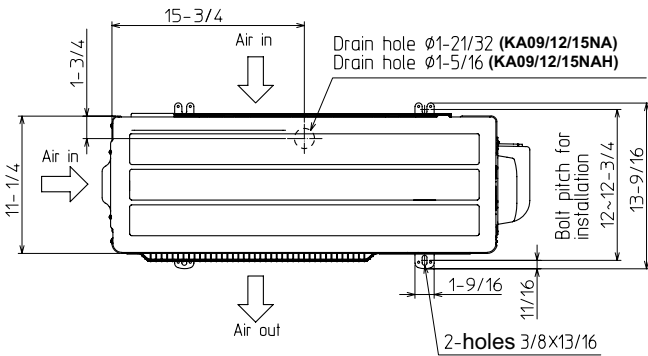
Unit: inch(mm)

REQUIRED SPACE

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



*2 When any 2 sides of left, right and rear of the unit are clear



NTXMMX24A132B*
2-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM



Job Name:

System Reference:

Date:



FEATURES

- Variable speed INVERTER-driven compressor
- Optional base pan heater
- Q uiet outdoor unit operation as low as 51 dB(A)
- High pressure protection
- Compressor thermal protection
- Compressor overcurrent detection
- Fan motor overheating/voltage protection
- ENERGY STAR® certified (non-ducted)

ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.

Specifications are subject to change without notice.

© 2022 Mitsubishi Electric Trane HVAC US LLC. All rights reserved.

SPECIFICATIONS: NTXMMX24A132B*

| | | | |
|------------------------|--|---------|--|
| Indoor unit connection | Maximum Number of Connected IDU | | 3 |
| | Minimum Number of Connected IDU | | 2 |
| | Minimum connected capacity | BTU/H | 12,000 |
| | Maximum connected capacity | BTU/H | 27,000 |
| Piping | Liquid Pipe Size O.D. (Flared) | In.[mm] | A,B,C: 1/4 [A,B,C: 6.35] |
| | Gas Pipe Size O.D. (Flared) | In.[mm] | A: 1/2; B,C: 3/8 [A: 12.72; B,C: 9.52] |
| | Total Piping Length | Ft. [m] | 230 [70] |
| | 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 | | 70 |

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 |
| | ² Heating at 47°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 47 DB, 43 WB |
| | ³ Heating at 17°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 17 DB, 15 WB |

| | | | |
|------------|---|----|----------------------------|
| Conditions | ⁴ Heating 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.

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

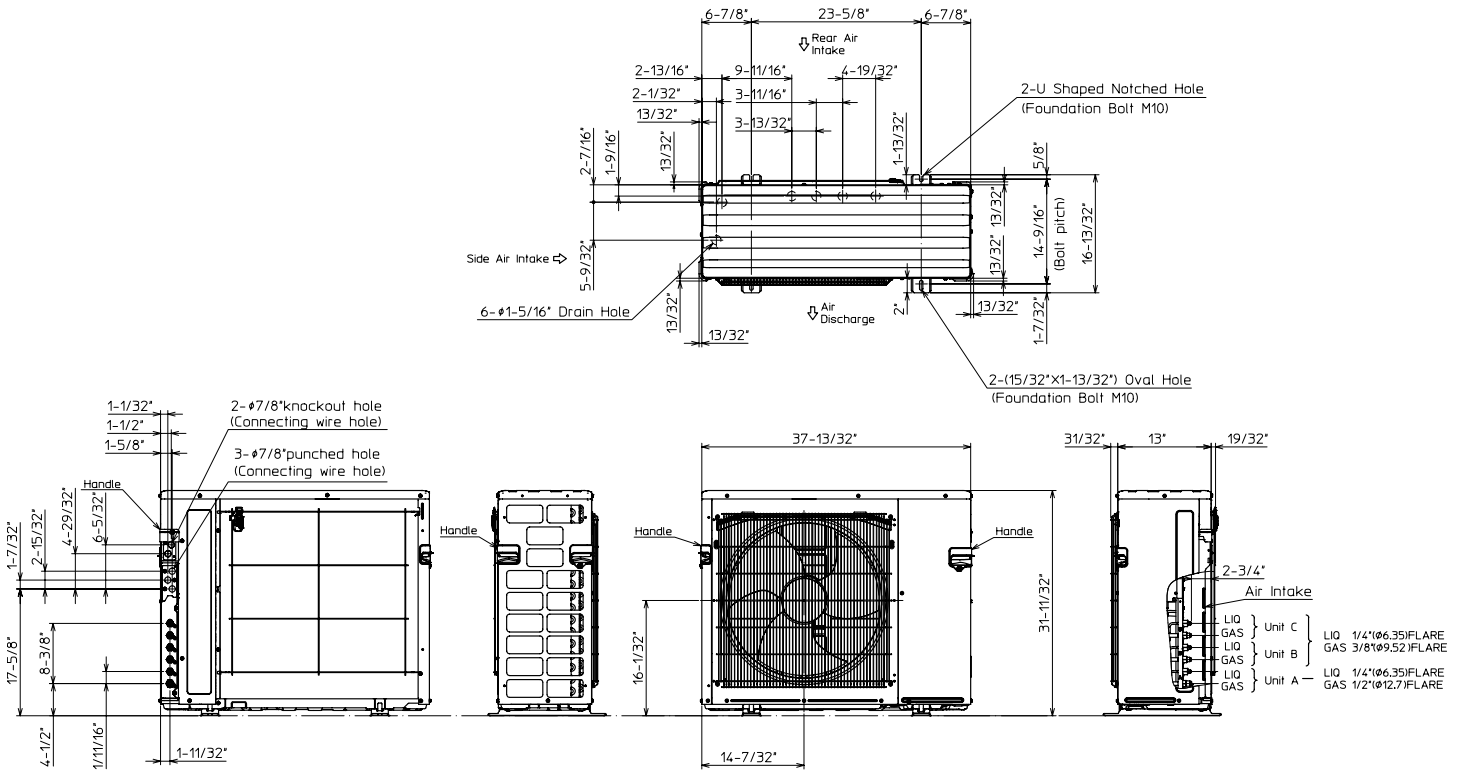
For actual capacity performance based on indoor unit type and number of indoor units connected, please refer to MXZ Operational Performance. Although the maximum connectable capacity is 130%, the outdoor unit cannot provide more than 100% of the rated capacity. Please utilize this over capacity capability for load shedding or applications where it is known that all connected units will NOT be operating at the same time.

OUTDOOR UNIT ACCESSORIES: NTXMMX24A132B*

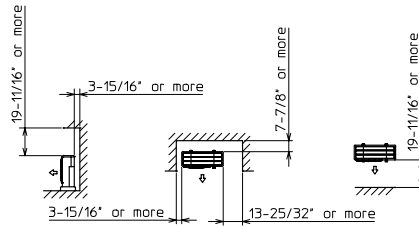
| | | |
|-------------------------|--|---------------|
| Air Outlet Guide | Air Outlet Guide (1 Piece) | PAC-SH96SG-E |
| Ball Valve | Refrigeration Ball Valve - 1/2" | BV12FFSI2 |
| | Refrigeration Ball Valve - 1/4" | BV14FFSI2 |
| | Refrigeration Ball Valve - 3/8" | BV38FFSI2 |
| | Refrigeration Ball 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-A9 |
| 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: NTXMMX24A132B*

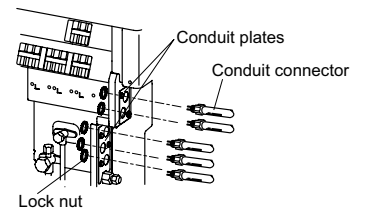
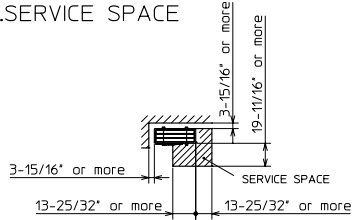
Unit: inch (mm)



1.FREE SPACE



2.SERVICE SPACE





Nv-SERIES

SUBMITTAL DATA: NTXCKS12A112A*

12,000 BTU/H 2' X 2' 4-WAY CEILING-CASSETTE INDOOR UNIT FOR MULTI-ZONE HEAT PUMP SYSTEMS

| | |
|-------------------|-------|
| Job Name: | |
| System Reference: | Date: |



GENERAL FEATURES

- Ceiling-recessed cassette (24"x24") ductless heat pump
- Install Konnect Series in a drywalled ceiling (with an access panel for servicing) or in a 2'x2' drop ceiling
- Wide airflow pattern for excellent air distribution
- Fresh air intake provided in the main body
- Built-in drain condensate lift mechanism (lifts to 33")
- Multiple control options available:
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers
- Long-life air filter included
- Individual vane control

SPECIFICATIONS: NTXCKS12A112A*

| | | | |
|---|-------------------------------------|----------------------|-------------------------|
| Cooling Capacity ^{1, 3} | | BTU/H | 12,000 |
| Heating Capacity ^{2, 3} | | BTU/H | 13,000 |
| Electrical | Voltage, Phase, Frequency | | 208/230V, 1 phase, 60Hz |
| | Guaranteed Voltage Range | | V AC 187-253 |
| | Voltage: Indoor - Outdoor, S1-S2 | | V AC 208/230 |
| | Voltage: Indoor - Outdoor, S2-S3 | | V DC 24 |
| | Voltage: Indoor - Remote controller | | V DC 12 |
| MCA | | A | 0.30 |
| Fan Motor Full Load Amperage | | A | 0.24 |
| Fan Motor Output | | W | 50 |
| Airflow Rate at Cooling, Dry | | CFM | 335-265-230 |
| Airflow Rate at Cooling, Wet | | CFM | 302-252-207 |
| Airflow Rate at Heating, Dry | | CFM | 335-265-230 |
| Sound Pressure Level (Cooling) ¹ | | dB(A) | 34-30-25 |
| Sound Pressure Level (Heating) ² | | dB(A) | 34-30-25 |
| External Static Pressure | | in.WG | N/A |
| Drain Pipe Size | | In. (mm) | 1 1/4 (32) |
| Condensate Lift Mechanism, Maximum Distance | | In. (mm) | 33 (850) |
| Heat Exchanger Type | | Plate fin coil | |
| External Finish Color | | Munsell 1.0Y 9.2/0.2 | |
| Unit Dimensions | W: In. (mm) | | 22-7/16 (570) |
| | D: In. (mm) | | 22-7/16 (570) |
| | H: In. (mm) | | 9-21/32 (245) |
| Package Unit Dimensions | W: In. (mm) | | 24-13/32 (620) |
| | D: In. (mm) | | 27-15/16 (710) |
| | H: In. (mm) | | 9-7/16 (240) |
| Unit Weight | | Lbs. (kg) | 31 (13.9) |
| Package Unit Weight | | Lbs. (kg) | 37 (17) |
| Refrigerant | Type | | R410A |
| | Charge | | Lbs, oz 2, 9 |
| Piping | Gas Pipe Size O.D. (Flared) | | In.(mm) 3/8 (9.52) |
| | Liquid Pipe Size O.D. (Flared) | | In.(mm) 1/4 (6.35) |

Notes:

| | | | |
|--------------------|--|----|------------------------------|
| Nominal Conditions | ¹ Cooling (Indoor // Outdoor) | °F | 80 DB, 67 WB // 95 DB, 75 WB |
| | ² Heating at 47°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 47 DB, 43 WB |

³Capacity varies based on the number of indoor units operating and the model of the Multi-zone Outdoor Unit. For reference to connected capacity charts, please refer Multi-zone Outdoor Unit Operational Performance.

ACCESSORIES: NTXCKS12A112A*




| | |
|---|-------------------------|
| Wireless Signal Receiver | □ PAR-SR32MA-W |
| Wireless Signal Receiver | □ TAR-FL32MA-E |
| Wireless Remote Receiver Panel | □ PAR-WSC009FA-E |
| Wireless Remote Controller | □ PAR-SL100A-E |
| kumo touch™ RedLINK™ Wireless Controller | □ MHK2 |
| Deluxe MA Remote Controller | □ TAR-40MAAU |
| Simple MA Controller | □ TAC-YT53CRAU-J |
| Touch MA Controller | □ TAR-CT01MAU-SB |
| Wired Remote Sensor | □ PAC-SE41TS-E |
| Wireless Temperature and Humidity Sensor | □ PAC-USWHS003-TH-1 |
| Flush Mount Remote Temperature Sensor | □ PAC-USSEN001-FM-1 |
| System Control Interface | □ MAC-334IF-E |
| Wireless Interface 2 | □ PAC-USWHS002-WF-2 |
| Thermostat Interface | □ PAC-US444CN-1 |
| kumo station® | □ TAC-WHS01HC-E |
| USNAP Interface | □ PAC-WHS01UP-E |
| IT Extender | □ PAC-WHS01IE-E |
| BACnet® and MODBUS® Interface | □ PAC-UKPRC001-CN-1 |
| External Fan / Heater Control Relay Adapter | □ CN24RELAY-KIT-CM3 |
| Wire for Remote on/off with CN32 connector | □ PAC-715AD |
| Connector and wire for Operation status/error using CN51 | □ PAC-725AD |
| Connector cable for remote display | □ PAC-SA88HA-EP |
| Wire for Remote on/off with CN32 connector | □ PAC-715AD |
| Remote Operation Adapter ¹ | □ PAC-SF40RM-E |
| Grille (required) | □ TLP-18FAU |
| 3D i-see Sensor® Corner Panel | □ PAC-SF1ME-E |
| Grille with 3D i-see Sensor® | □ TLP-18FAEU |
| Blue Diamond Sensor Extension Cable — 15 Ft. | □ C13-103 |
| Blue Diamond Alarm Extension Cable — 6.5 Ft. | □ C13-192 |
| Blue Diamond MultiTank — collection tank for use with multiple pumps | □ C21-014 |
| Blue Diamond Rubber Foot Pads | □ F10-010 |
| Mini Condensate Pump — 230 volt application | □ SI30-230 |
| MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor | □ X87-835 - 110 to 250V |
| Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended] | □ X87-721 - 208/230V |
| (30A/600V/UL) [fits 2" X 4" utility box] - Black | □ TAZ-MS303 |
| (30A/600V/UL) [fits 2" X 4" utility box] - White | □ TAZ-MS303W |

¹ Unable to use with wireless remote controller



Nv-SERIES SUBMITTAL DATA: NTYWST18A112A* & NTYSST18A112A* 18,000 BTU/H WALL-MOUNTED AIR-CONDITIONING SYSTEM

| | |
|-------------------|-------|
| Job Name: | |
| System Reference: | Date: |

| Indoor Unit: NTYWST18A112A* | Outdoor Unit: NTYSST18A112A* | Wireless Remote Controller |
|---|--|---|
|  |  |  |

GENERAL FEATURES

- Slim wall-mounted indoor units provide zone comfort control
- The outdoor unit powers the indoor unit, and should a power outage occur, the system is automatically restarted when power returns
- INVERTER-driven compressor and LEV provide high efficiency and comfort while using only the energy needed to maintain maximum performance
- Multiple fan speed options: Quiet, Low, Medium, High, Super-high, Auto
- Multiple control options available:
 - Hand-held Remote Controller (provided with unit)
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers
- Quiet operation
- Smart Set: recalls a preferred preset temperature setting at the touch of a button
- Blue Fin anti-corrosion treatment applied to the outdoor unit heat exchanger for increased coil protection and longer life

SPECIFICATIONS: NTYWST18A112A* & NTYSST18A112A*

| | | | | |
|---|--|-------------|-----------------------------|---------------|
| Cooling ¹ | Maximum Capacity | BTU/H | 22,000 | |
| | Rated Capacity | BTU/H | 18,000 | |
| | Minimum Capacity | BTU/H | 5,800 | |
| | Maximum Power Input | W | 2,105 | |
| | Rated Power Input | W | 1,340 | |
| | Moisture Removal | Pints/h | 2.1 | |
| | Sensible Heat Factor | | 0.87 | |
| | Power Factor | % | 99 / 99 | |
| Efficiency | SEER | | 20.5 | |
| | EER ¹ | | 13.4 | |
| | ENERGY STAR [®] certified units (ENERGY STAR products are third party certified by an EPA-recognized Certification Body.) | | YES | |
| Electrical | Voltage, Phase, Frequency | | 208/230V, 1 phase, 60Hz | |
| | 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 (Outdoor) | A | 15 | |
| | Recommended Wire Size (Indoor - Outdoor) | AWG | 14 | |
| | Indoor Unit | MCA | A | 1 |
| MOCP | | A | 15 | |
| Blower Motor Full Load Amperage | | A | 0.67 | |
| Blower Motor Output | | W | 30 | |
| Airflow Rate at Cooling, Dry | | CFM | 646-522-417-332-258 | |
| Airflow Rate at Cooling, Wet | | CFM | 581-470-375-299-232 | |
| Sound Pressure Level (Cooling) | | dB(A) | 49-44-38-33-28 | |
| Drain Pipe Size | | In. (mm) | 5/8 (15.88) | |
| Heat Exchanger Type | | | Plate fin coil | |
| External Finish Color | | | Munsell 1.0Y 9.2/0.2 | |
| Unit Dimensions | | W: In. (mm) | | 36-5/16 (923) |
| | | D: In. (mm) | | 9-13/16 (250) |
| | | H: In. (mm) | | 12 (305) |
| Package Dimensions | | W: In. (mm) | | 39 (990) |
| | | D: In. (mm) | | 13 (330) |
| | | H: In. (mm) | | 15 (380) |
| Unit Weight | | Lbs. (kg) | | 28 (13) |
| Package Weight | Lbs. (kg) | | 33 (15) | |
| Indoor Unit Operating Temperature Range | Cooling Intake Air Temp (Maximum / Minimum)* | °F | 90 DB, 73 WB / 67 DB, 57 WB | |
| Outdoor Unit | MCA | A | 14 | |
| | MOCP | A | 15 | |
| | Fan Motor Full Load Amperage | A | 0.93 | |
| | Fan Motor Output | W | 77 | |
| | Airflow Rate | CFM | 1,691 | |
| | Refrigerant Control | | LEV | |
| | Defrost Method | | Reverse cycle | |
| | Heat Exchanger Type | | Plate fin coil | |
| | Sound Pressure Level, Cooling ¹ | dB(A) | 54 | |
| | Compressor Type | | DC INVERTER-driven | |
| | Compressor Model | | SNB130FQBMT | |
| | Compressor Rated Load Amps | A | 10 | |
| | Compressor Locked Rotor Amps | A | 12.5 | |
| | Compressor Oil Type // Charge | oz. | FV50S // 11.8 | |
| | External Finish Color | | Munsell 3Y 7.8/1/1 | |
| | Base Pan Heater | | N/A | |
| | Unit Dimensions | W: In. (mm) | | 33-1/16 (840) |
| | | D: In. (mm) | | 13 (330) |
| | | H: In. (mm) | | 34-5/8 (880) |
| Package Dimensions | W: In. (mm) | | 38-9/16 (980) | |

SPECIFICATIONS: NTYWST18A112A* & NTYSST18A112A*

| | | | |
|--|--|-------------|---------------|
| | | D: In. (mm) | 16-9/16 (420) |
| | | H: In. (mm) | 39 (990) |
| | Unit Weight | Lbs. (kg) | 121 (55) |
| | Package Weight | Lbs. (kg) | 141 (64) |
| Outdoor Unit Operating Temperature Range | Cooling Air Temp (Maximum / Minimum)* | °F | 115 / 14 |
| | Cooling Thermal Lock-out / Re-start Temperatures** | °F | -1 / 3 |
| Refrigerant | Type | | R410A |
| | Charge | Lbs, oz | 3, 9 |
| Piping | Gas Pipe Size O.D. (Flared) | In. (mm) | 1/2 (12.7) |
| | Liquid Pipe Size O.D. (Flared) | In. (mm) | 1/4 (6.35) |
| | Maximum Piping Length | Ft. (m) | 100 (30) |
| | Maximum Height Difference | Ft. (m) | 50 (15) |
| | Maximum Number of Bends | | 10 |

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 |
| *Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions. | | | |
| **System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures. | | | |

ACCESSORIES: NTYWST18A112A*

| | |
|--|-------------------------|
| Anti-allergy Enzyme Filter | □ MAC-408FT-E |
| kumo touch™ RedLINK™ Wireless Controller | □ MHK2 |
| Deluxe MA Remote Controller ¹ | □ TAR-40MAAU |
| Simple MA Controller ¹ | □ TAC-YT53CRAU-J |
| Touch MA Controller ¹ | □ TAR-CT01MAU-SB |
| Wired Remote Sensor | □ M21EAA307 |
| Wireless Temperature and Humidity Sensor | □ PAC-USWHS003-TH-1 |
| System Control Interface ² | □ MAC-334IF-E |
| Wireless Interface 2 | □ PAC-USWHS002-WF-2 |
| Thermostat Interface | □ PAC-US444CN-1 |
| Thermostat Interface | □ PAC-US445CN-1 |
| kumo station® for kumo cloud® | □ TAC-WHS01HC-E |
| USNAP Interface | □ PAC-WHS01UP-E |
| IT Extender | □ PAC-WHS01IE-E |
| BACnet® and MODBUS® Interface | □ PAC-UKPRC001-CN-1 |
| Lockdown Bracket for Hand-held Remote Controllers | □ RCMKP1CB |
| Blue Diamond Sensor Extension Cable — 15 Ft. | □ C13-103 |
| Blue Diamond Alarm Extension Cable — 6.5 Ft. | □ C13-192 |
| Blue Diamond MultiTank — collection tank for use with multiple pumps | □ C21-014 |
| Blue Diamond Rubber Foot Pads | □ F10-010 |
| Mini Condensate Pump — 230 volt application | □ SI30-230 |
| MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor | □ X87-835 - 110 to 250V |
| MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H[recommended] | □ X87-711 - 110V |
| Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended] | □ X87-721 - 208/230V |
| MicroBlue Blue Diamond Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H | □ X85-003 |
| Fascia Kit for MicroBlue Pump – mounts the MicroBlue and sensor directly beneath the indoor unit | □ T18-016 |
| Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H | □ COMBI |
| Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H | □ GOBI-II |
| Drain Pan Level Sensor | □ SS610E |
| (30A/600V/UL) [fits 2" X 4" utility box] - Black | □ TAZ-MS303 |
| (30A/600V/UL) [fits 2" X 4" utility box] - White | □ TAZ-MS303W |
| Flexible Mini-Split Drain Hose | □ DRX-16 |

¹ Requires MAC-334IF-E

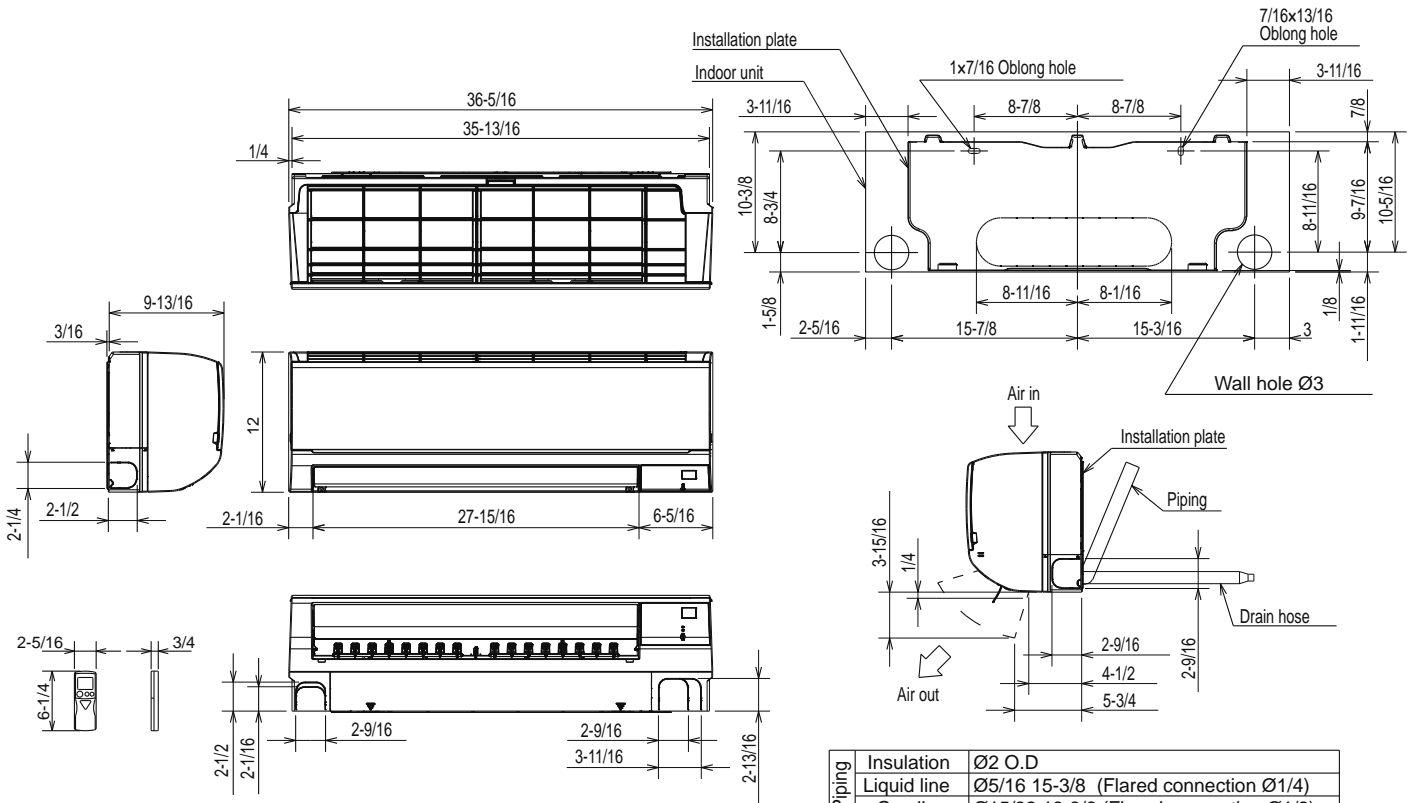
² Allows indoor units to connect to an MA Controller

ACCESSORIES: NTYSST18A112A*

| | |
|--|---|
| Air Outlet Guide | <input type="checkbox"/> PAC-ADG886AA-E |
| Drain Socket | <input type="checkbox"/> MAC-860DS |
| Hail Guard | <input type="checkbox"/> HG-A7 |
| Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic | <input type="checkbox"/> DSD-400P |
| Condensing Unit Mounting Pad 16" x 36" x 3" | <input type="checkbox"/> ULTRILITE1 |
| Outdoor Unit Stand — 12" High | <input type="checkbox"/> QSMS1201M |
| Outdoor Unit Stand — 18" High | <input type="checkbox"/> QSMS1801M |
| Outdoor Unit Stand — 24" High | <input type="checkbox"/> QSMS2401M |
| Heavy Duty Wall Mounting Bracket— Coated Steel | <input type="checkbox"/> QSWB2000M-1 |
| Heavy Duty Wall Mounting Bracket— 316 Series Stainless Steel | <input type="checkbox"/> QSWBSS |
| 15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation) | <input type="checkbox"/> MLS141212T-15 |
| 30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation) | <input type="checkbox"/> MLS141212T-30 |
| 50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation) | <input type="checkbox"/> MLS141212T-50 |
| 65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation) | <input type="checkbox"/> MLS141212T-65 |
| 100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation) | <input type="checkbox"/> MLS141212T-100 |

DIMENSIONS: NTYWST18A112A*

Unit: inch



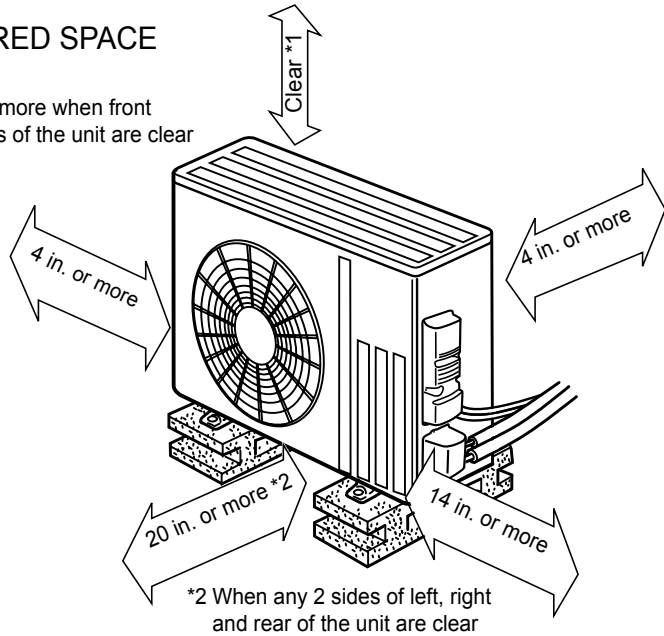
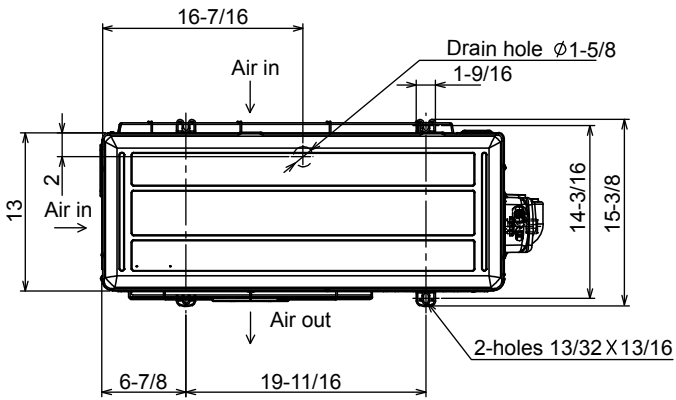
| | | |
|------------|---|--|
| Piping | Insulation | Ø2 O.D |
| | Liquid line | Ø5/16 15-3/8 (Flared connection Ø1/4) |
| | Gas line | Ø15/32 13-3/8 (Flared connection Ø1/2) |
| Drain hose | Insulation Ø1-1/8 Connected part Ø5/8 O.D | |

DIMENSIONS: NTYSST18A112A*

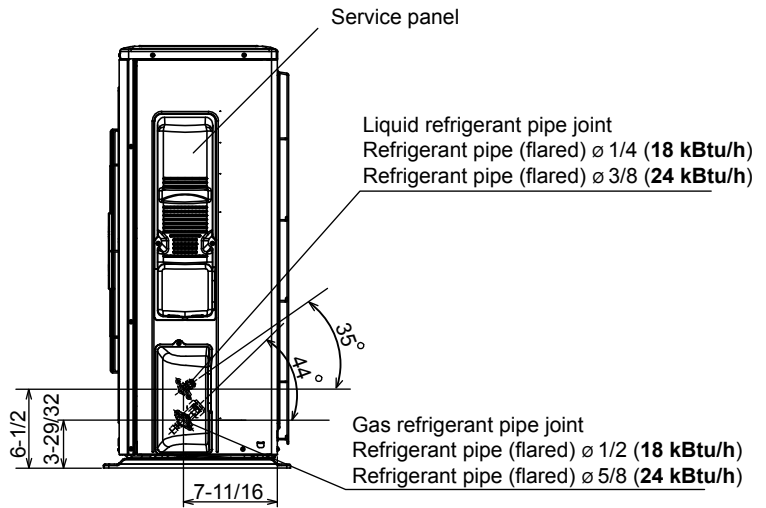
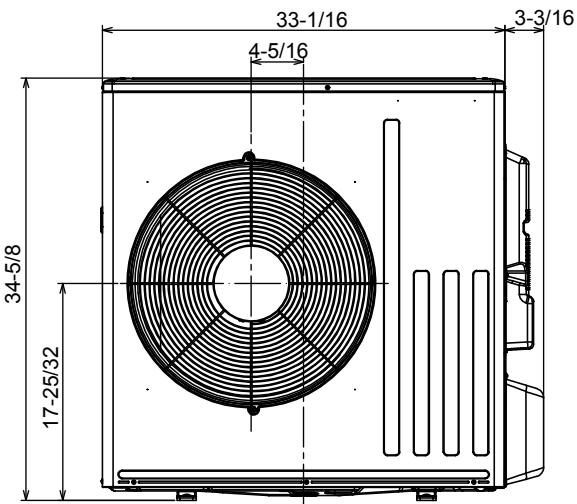
Unit: inch

REQUIRED SPACE

*1 20 in. or more when front and sides of the unit are clear



*2 When any 2 sides of left, right and rear of the unit are clear



HG-B4 Hail Guard



Job Name:

System Reference:

Date:



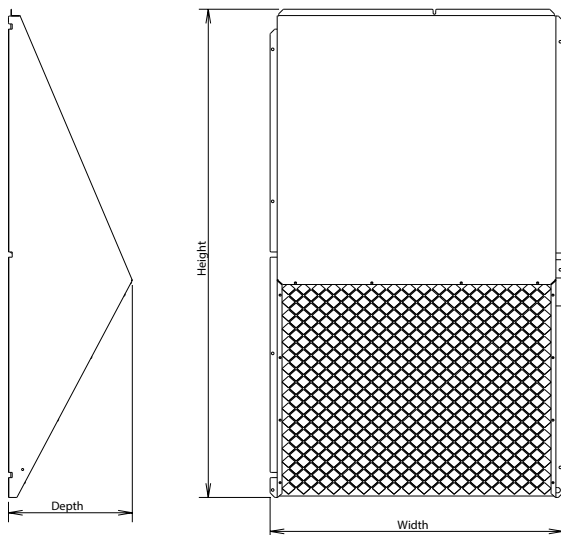
FEATURES

- Compatible with Nv- and P-Series outdoor units
- Protection from snow and hail
- Engineered using 20 gauge galvanized steel to protect from 1" and larger hailstones
- Guards keep heavy accumulation off coil surfaces to protect from compromised performance

SPECIFICATIONS

| | |
|-------------|--|
| Material | Powder Coated 20 gauge, G60 galvanized steel |
| Powder Coat | P1135-G6 Polyester TGIC Erie Powder Coating 3 mil nominal (± 1 mil) uniform thickness over the entire part. |
| Color | Matches Outdoor Unit |
| Screen | 1 inch (25.4 mm) square hole pattern |

DIMENSIONS



COMPATIBILITY

| Single Zone |
|----------------|
| NTXSEL09A112AB |
| NTXSEL12A112AB |
| NTXSEL18A112AB |
| NTXSKS09A112AA |
| NTXSKS12A112AA |
| NTXSKS15A112AA |
| NTXSMT09A111AA |
| NTXSMT09A112AB |
| NTXSMT12A111AA |
| NTXSMT12A112AB |
| NTXSMT15A112AB |
| NTXSPB06B112AA |
| NTXSPB09B112AA |
| NTXSPB12B112AA |
| NTXSPF09A112AA |
| NTXSPF12A112AA |
| NTXSPH06B112AA |
| NTXSPH09B112AA |
| NTXSPH12B112AA |
| NTXSST09A112AB |
| NTXSST12A112AB |
| NTXSST15A112AB |
| NTYSST09A112AB |
| NTYSST12A112AB |
| NTYSST15A112AB |

*B4 is replacing A4. Backwards compatible outdoor unit are indicated by "B or A"

| HG-A4 / B4 | | |
|------------|-------|---------|
| Weight | kg | 3.23 |
| | (lbs) | (7.12) |
| Height | mm | 471 |
| | (in) | (18.54) |
| Width | mm | 701 |
| | (in) | (27.6) |
| Depth | mm | 201 |
| | (in) | (7.91) |

HG-A8 Hail Guard



Job Name:

System Reference:

Date:



FEATURES

- Compatible with Nv- and P-Series outdoor units
- Protection from snow and hail
- Engineered using 20 gauge galvanized steel to protect from 1" and larger hailstones
- Guards keep heavy accumulation off coil surfaces to protect from compromised performance

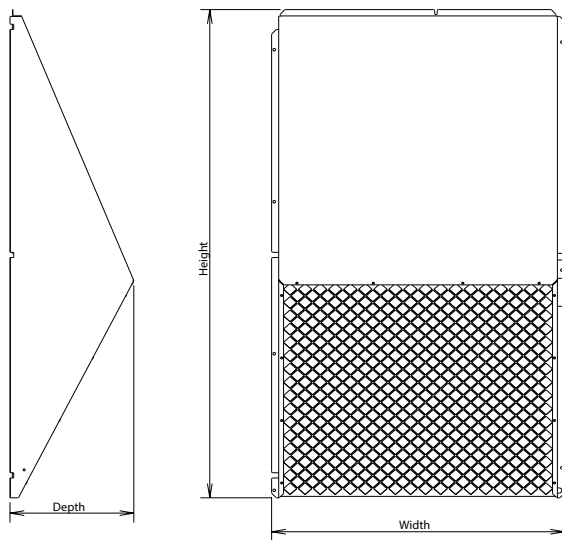
COMPATIBILITY

| |
|----------------|
| Multi Zone |
| NTXMMX20A122B* |

SPECIFICATIONS

| | |
|-------------|--|
| Material | Powder Coated 20 gauge, G60 galvanized steel |
| Powder Coat | P1135-G6 Polyester TGIC Erie Powder Coating 3 mil nomiNTI (± 1 mil) uniform thickness over the entire part. |
| Color | Matches Outdoor Unit |
| Screen | 1 inch (25.4 mm) square hole pattern |

DIMENSIONS



| HG-A8 | | |
|--------|-------|---------|
| Weight | kg | 3.92 |
| | (lbs) | (8.64) |
| Height | mm | 670 |
| | (in) | (26.38) |
| Width | mm | 662 |
| | (in) | (26.06) |
| Depth | mm | 201 |
| | (in) | (7.91) |

FORM# HG-A8 - 202207

HG-A2 Hail Guard



Job Name:

System Reference:

Date:



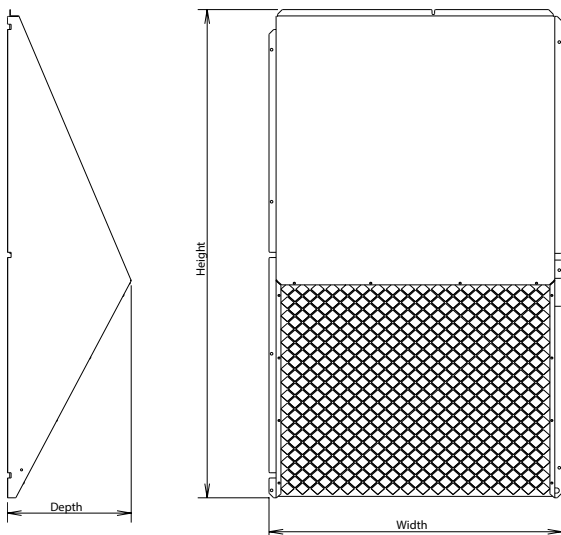
FEATURES

- Compatible with Nv- and P-Series outdoor units
- Protection from snow and hail
- Engineered using 20 gauge galvanized steel to protect from 1" and larger hailstones
- Guards keep heavy accumulation off coil surfaces to protect from compromised performance

SPECIFICATIONS

| | |
|-------------|--|
| Material | Powder Coated 20 gauge, G60 galvanized steel |
| Powder Coat | P1135-G6 Polyester TGIC Erie Powder Coating 3 mil nomiNTI (± 1 mil) uniform thickness over the entire part. |
| Color | Matches Outdoor Unit |
| Screen | 1 inch (25.4 mm) square hole pattern |

DIMENSIONS



COMPATIBILITY

| Single Zone |
|-----------------|
| NTXSKH30A112AA |
| NTXSKH36A112AA |
| TRUZH0301KA00NA |
| TRUZH0361KA00NA |
| TRUZH0421KA10NA |
| NTXMSH36A142AA |
| NTXMSH42A152AA |
| NTXMSH48A182AA |
| NTXMSM36A142AA |
| NTXMSM48A182AA |
| NTXMSM60A182AA |

| HG-A2 | | | |
|--------|-------|---------|---------|
| | | Rear | Side |
| Kit | kg | 15.19 | 15.19 |
| | (lbs) | (33.48) | (33.48) |
| Weight | kg | 9.99 | 5.20 |
| | (lbs) | (22.02) | (11.46) |
| Height | mm | 1310 | 1251 |
| | (in) | (51.57) | (49.25) |
| Width | mm | 786 | 208 |
| | (in) | (30.94) | (8.19) |
| Depth | mm | 332 | 326 |
| | (in) | (13.07) | (12.83) |

FORM# HG-A2 - 202207

HG-A7 Hail Guard



Job Name:

System Reference:

Date:



FEATURES

- Compatible with Nv- and P-Series outdoor units
- Protection from snow and hail
- Engineered using 20 gauge galvanized steel to protect from 1" and larger hailstones
- Guards keep heavy accumulation off coil surfaces to protect from compromised performance

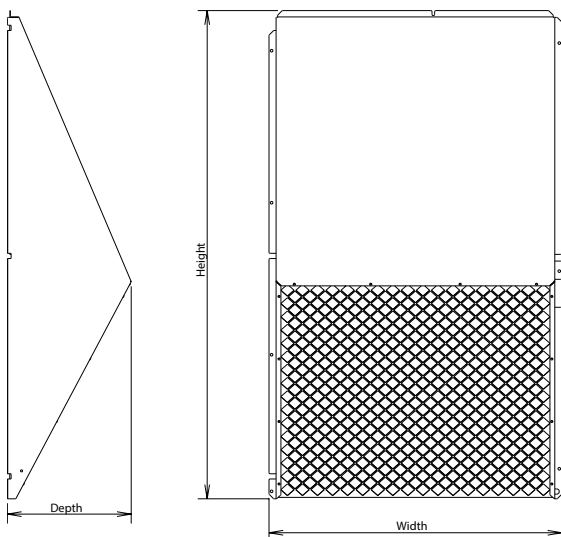
SPECIFICATIONS

| | |
|-------------|--|
| Material | Powder Coated 20 gauge, G60 galvanized steel |
| Powder Coat | P1135-G6 Polyester TGIC Erie Powder Coating 3 mil nomiNTI (± 1 mil) uniform thickness over the entire part. |
| Color | Matches Outdoor Unit |
| Screen | 1 inch (25.4 mm) square hole pattern |

COMPATIBILITY

| Single Zone |
|----------------|
| NTXSEL18A112AB |
| NTXSMT24A112AA |
| NTXSPB15B112AA |
| NTXSPB18B112AA |
| NTXSPF09A112AA |
| NTXSPF15A112AA |
| NTXSPF18A112AA |
| NTXSPH15B112AA |
| NTXSPH18B112AA |
| NTXSST18A112AA |
| NTXSST24A112AA |
| NTXSST30B112AA |
| NTXSST36B112AA |
| NTYSST15A112AB |
| NTYSST18A112AA |
| NTYSST24A112AA |
| NTYSST30B112AA |
| NTYSST36B112AA |

DIMENSIONS



| HG-A7 | | |
|--------|-------|---------|
| Weight | kg | 6.39 |
| | (lbs) | (14.09) |
| Height | mm | 719 |
| | (in) | (28.31) |
| Width | mm | 821 |
| | (in) | (32.32) |
| Depth | mm | 332 |
| | (in) | (13.07) |

FORM# HG-A7 - 202207

HG-A9 Hail Guard



Job Name:

System Reference:

Date:



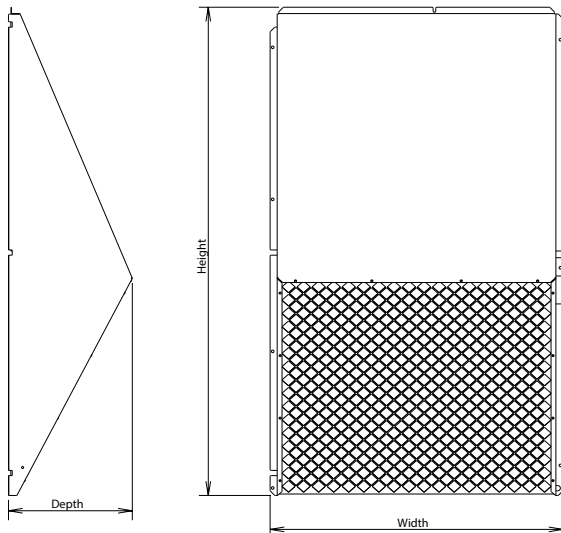
FEATURES

- Compatible with Nv- and P-Series outdoor units
- Protection from snow and hail
- Engineered using 20 gauge galvanized steel to protect from 1" and larger hailstones
- Guards keep heavy accumulation off coil surfaces to protect from compromised performance

SPECIFICATIONS

| | |
|-------------|--|
| Material | Powder Coated 20 gauge, G60 galvanized steel |
| Powder Coat | P1135-G6 Polyester TGIC Erie Powder Coating 3 mil nomiNTI (± 1 mil) uniform thickness over the entire part. |
| Color | Matches Outdoor Unit |
| Screen | 1 inch (25.4 mm) square hole pattern |

DIMENSIONS



COMPATIBILITY

| |
|----------------|
| Multi Zone |
| NTXMMX24A132B* |
| NTXMMX30A132B* |
| NTXMMX36A142B* |

| HG-A9 | | | |
|--------|-------|---------|---------|
| | | Rear | Side |
| Kit | kg | 7.42 | 7.42 |
| | (lbs) | (16.37) | (16.37) |
| Weight | kg | 4.74 | 2.69 |
| | (lbs) | (10.45) | (5.92) |
| Height | mm | 700 | 700 |
| | (in) | (27.56) | (27.56) |
| Width | mm | 738 | 299 |
| | (in) | (29.06) | (11.77) |
| Depth | mm | 207 | 201 |
| | (in) | (8.15) | (7.91) |

FORM# HG-A9 - 202207