

**TPKA0A0301KA70A & TRUYA0301HA70NA**  
**30,000 BTU/H WALL-MOUNTED INDOOR UNIT**  
**30,000 BTU/H COOLING ONLY OUTDOOR**



Job Name:

System Reference:

Date:



Indoor Unit.....TPKA0A0301KA70A

Outdoor Unit.....TRUYA0301HA70NA



**INDOOR UNIT FEATURES**

- Sleek, compact design
- Simple installation
- Vane setting for air flow direction control
- Auto fan speed mode
- Ideal for spaces such as server rooms, daycare centers, classrooms, churches, small offices, and more
- Multiple control options available:
  - kumo cloud® smart device app for remote access
  - Third-party interface options
  - Wired or wireless controllers

**OUTDOOR UNIT FEATURES**

- Variable speed INVERTER-driven compressor
- Pre-charged with refrigerant volume for piping length up to 70 ft
- Low ambient cooling down to -40°F providing 100% capacity (with wind baffles)
- 24-hour continuous operation (cooling mode)
- High pressure protection
- Fast restart
- Superior energy and operational efficiency
- Seacoast protection\*
  - External Outer Panel: Phosphate coating + Acrylic-Enamel coating
  - Fan Motor Support: Epoxy resin coating (at edge face)
  - Separator Assembly Valve Bed: Epoxy resin coating (at edge face)
  - Blue Fin treatment is an anti-corrosion treatment that is applied to the Heat exchanger coil to protect it against airborne contaminants.
  - Heat exchanger coil and base panel rated for 2,000 hours in accordance with ASTM B117 testing

\*Seacoast protection standard from 2022 production

# SPECIFICATIONS: TPKA0A0301KA70A & TRUYA0301HA70NA

|                                          |                                                            |                     |                                                          |
|------------------------------------------|------------------------------------------------------------|---------------------|----------------------------------------------------------|
| Cooling at 95°F <sup>1</sup>             | Maximum Capacity                                           | BTU/H               | 30,000                                                   |
|                                          | Rated Capacity                                             | BTU/H               | 30,000                                                   |
|                                          | Minimum Capacity                                           | BTU/H               | 9,000                                                    |
|                                          | Maximum Power Input                                        | W                   | 3,150                                                    |
|                                          | Rated Power Input                                          | W                   | 3,150                                                    |
|                                          | Moisture Removal                                           | Pints/h             | 8.1                                                      |
|                                          | Sensible Heat Factor                                       |                     | 0.70                                                     |
|                                          | Power Factor [208V / 230V]                                 | %                   | 96.4 / 96.4                                              |
| Efficiency                               | SEER   SEER2                                               |                     | 19.8                                                     |
|                                          | EER <sup>1</sup>   EER2 <sup>1</sup>                       |                     | 9.5                                                      |
|                                          | ENERGY STAR® Certified                                     |                     | No                                                       |
| Electrical                               | Voltage, Phase, Frequency                                  |                     | 208/230, 1, 60                                           |
|                                          | Guaranteed Voltage Range                                   | V AC                | 198 - 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                   | 25                                                       |
|                                          | Recommended Wire Size [Indoor - Outdoor]                   | AWG                 | 14                                                       |
|                                          | Power Supply                                               |                     | Indoor unit is powered by the outdoor unit               |
| Indoor Unit                              | MCA                                                        | A                   | 1.0                                                      |
|                                          | Fan Motor Full Load Amperage                               | A                   | 0.36                                                     |
|                                          | Fan Motor Type                                             |                     | DC Motor                                                 |
|                                          | Airflow Rate at Cooling, Dry                               | CFM                 | 635–705–775                                              |
|                                          | Airflow Rate at Cooling, Wet                               | CFM                 | 570–635–700                                              |
|                                          | Airflow Rate at Heating, Dry                               | CFM                 | 635–705–775                                              |
|                                          | Sound Pressure Level [Cooling]                             | dB[A]               | 39–42–45                                                 |
|                                          | Sound Pressure Level [Heating]                             | dB[A]               | 39–42–45                                                 |
|                                          | Drain Pipe Size                                            | In. [mm]            | 5/8 [16]                                                 |
|                                          | Coating on Heat Exchanger                                  |                     | —                                                        |
|                                          | External Finish Color                                      |                     | White Munsell 1.0Y 9.2/0.2                               |
|                                          | Unit Dimensions                                            | W x D x H: In. [mm] | 46-1/16 x 11-5/8 x 14-3/8 [1,170 x 295 x 365]            |
|                                          | Package Dimensions                                         | W x D x H: In. [mm] | 51 x 14-1/4 x 18-1/2 [1,295 x 362 x 470]                 |
|                                          | Unit Weight                                                | Lbs. [kg]           | 46 [21]                                                  |
|                                          | Package Weight                                             | Lbs. [kg]           | 53 [24]                                                  |
| Indoor Unit Operating Temperature Range  | Cooling Intake Air Temp [Maximum / Minimum]*               | °F                  | 90 DB, 72 WB / 66 DB, 61 WB                              |
| Outdoor Unit                             | MCA                                                        | A                   | 19.0                                                     |
|                                          | MOCP                                                       | A                   | 26                                                       |
|                                          | Fan Motor Full Load Amperage                               | A                   | 0.4                                                      |
|                                          | Fan Motor Output                                           | W                   | 86                                                       |
|                                          | Airflow Rate [Cooling / Heating]                           | CFM                 | 1940                                                     |
|                                          | Refrigerant Control                                        |                     | LEV                                                      |
|                                          | Defrost Method                                             |                     | Reverse Cycle                                            |
|                                          | Coating on Heat Exchanger                                  |                     | Blue Fin Coating***                                      |
|                                          | Sound Pressure Level, Cooling <sup>1</sup>                 | dB(A)               | 47                                                       |
|                                          | Compressor Type                                            |                     | INVERTER-driven twin rotary                              |
|                                          | Compressor Model                                           |                     | SNB172FWHM1                                              |
|                                          | Compressor Rated Load Amps                                 | A                   | 7                                                        |
|                                          | Compressor Locked Rotor Amps                               | A                   | 11.0                                                     |
|                                          | Compressor Oil [Type // Charge]                            | oz.                 | FV50S // 23                                              |
|                                          | External Finish Color                                      |                     | Ivory Munsell 3Y 7.8/1.1                                 |
|                                          | Base Pan Heater                                            |                     | N/A                                                      |
|                                          | Unit Dimensions                                            | W x D x H: In. [mm] | 37-13/32 x 13 (+1-3/16) x 37-1/8 [950 x 330 (+30) x 943] |
|                                          | Package Dimensions                                         | W x D x H: In. [mm] | 40-15/16 x 17-11/16 x 40-11/16 [1040 x 450 x 1033]       |
|                                          | Unit Weight                                                | Lbs. [kg]           | 151 [68]                                                 |
|                                          | Package Weight                                             | Lbs. [kg]           | 176 [80]                                                 |
| Outdoor Unit Operating Temperature Range | Cooling Air Temp [Maximum / Minimum]*                      | °F                  | 115 DB / -40 DB                                          |
| Refrigerant                              | Type                                                       |                     | R410A                                                    |
|                                          | Pre-Charged Refrigerant Amount                             | Lbs, oz             | 7.0, 11.0                                                |
|                                          | Maximum Pre-Charged Piping Length                          | Ft. [m]             | 70.0 [20.0]                                              |
|                                          | Additional Refrigerant Charge Per Additional Piping Length | oz./Ft. [g/m]       | 0.3 [22.5]                                               |

NOTES:  
 AHRI Rated Conditions  
 (Rated data is determined at a fixed compressor speed)    <sup>1</sup>Cooling (Indoor // Outdoor)    °F    80 DB, 67 WB // 95 DB, 75 WB

\*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):  
 • Wind baffles required to operate below 23°F DB in cooling mode.  
 • Cooling-only system with advanced wind baffle: -40°F - 115°F.  
 • Refer to wind baffle documentation for further information.

\*\*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.

\*\*\*Blue Fin Coating Standard from 2022 production:  
 • PU(Y/Z)-A(12/18)NKA7 - Beginning with serial number 12U\*\*\*\*\*  
 • PU(Y/Z)-A(24/30/36/42)NKA7 - Beginning with serial number 12U\*\*\*\*\*

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|        |                                |         |             |
|--------|--------------------------------|---------|-------------|
| Piping | Gas Pipe Size O.D. [Flared]    | In.[mm] | 5/8 [15.88] |
|        | Liquid Pipe Size O.D. [Flared] | In.[mm] | 3/8 [9.52]  |
|        | Maximum Piping Length          | Ft. [m] | 225 [68]    |
|        | Maximum Height Difference      | Ft. [m] | 100 [30]    |
|        | Maximum Number of Bends        |         | 15          |

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## INDOOR UNIT ACCESSORIES: TPKA0A0301KA70A

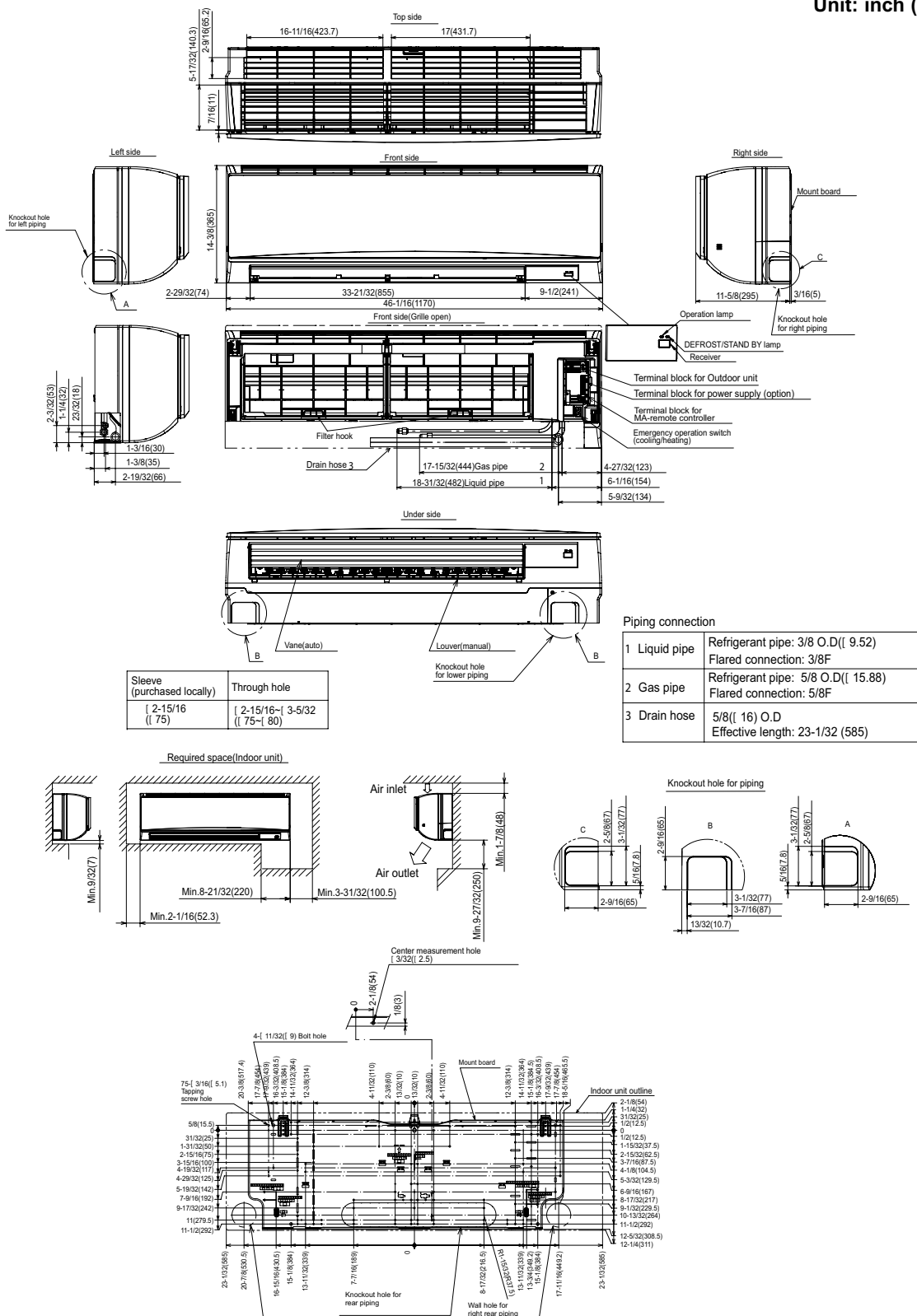
|                            |                                                                                             |                   |
|----------------------------|---------------------------------------------------------------------------------------------|-------------------|
| Control Interface          | 3-Pin Connector                                                                             | PAC-715AD         |
|                            | BACnet® and Modbus® Interface                                                               | PAC-UKPRC001-CN-1 |
|                            | IT Extender                                                                                 | PAC-WHS01IE-E     |
|                            | kumo station® for kumo cloud®                                                               | TAC-WHS01HC-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              |
|                            | Lockdown bracket for remote controller                                                      | RCMKP1CB          |
|                            | 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           |
|                            | Drain Pan Level Sensor/Control                                                              | SS610E            |
|                            | Refco Condensate Pump (100-240 VAC)                                                         | GOBI-II           |
|                            | 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                    | 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    |

## OUTDOOR UNIT ACCESSORIES: TRUYA0301HA70NA

|                       |                                                                |              |
|-----------------------|----------------------------------------------------------------|--------------|
| Air Outlet Guide      | Air Outlet Guide (1 Piece)                                     | PAC-SG59SG-E |
| Centralized Drain Pan | Centralized Drain Pan                                          | PAC-SG63DP-E |
|                       | Drain Pan                                                      | PAC-SG64DP-E |
| Control/Service Tool  | Control/Service Tool                                           | PAC-SK52ST   |
|                       | M- & P-Series Maintenance Tool Cable Set                       | M21EC0397    |
|                       | USB/UART Conversion Cable (Required for all laptop connection) | M21EC1397    |
| Hail Guards           | Hail Guard                                                     | HG-A6        |
| M-NET Converter       | M-NET Converter                                                | PAC-SJ85MA-E |
|                       | M-NET Converter                                                | PAC-SJ95MA-E |
| Mini-Split Wire       | 14 Gauge, 4 wire MiniSplit Cable—250 ft. roll                  | S144-250     |
|                       | 14 Gauge, 4 wire MiniSplit Cable—50 ft. roll                   | S144-50      |
|                       | 16 Gauge, 4 wire MiniSplit Cable—250 ft. roll                  | S164-250     |
|                       | 16 Gauge, 4 wire MiniSplit Cable—50 ft. roll                   | S164-50      |
| Mounting Pad          | Condensing Unit Mounting Pad: 24" x 42" x 3"                   | ULTRILITE2   |
| 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    |
| Wind Baffle           | Front Wind Baffle                                              | WB-PA5       |
|                       | Rear Wind Baffle                                               | WB-RE5       |
|                       | Side Advanced Wind Baffle                                      | WB-SD5       |

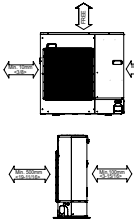
## INDOOR UNIT DIMENSIONS: TPKA0A0301KA70A

Unit: inch (mm)

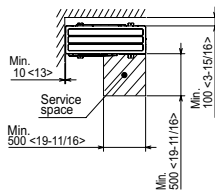


**OUTDOOR UNIT DIMENSIONS: TRUYA0301HA70NA**

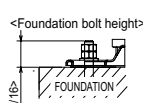
The diagram below shows a basic example.  
Explanation of particular details are given in the installation manuals etc.



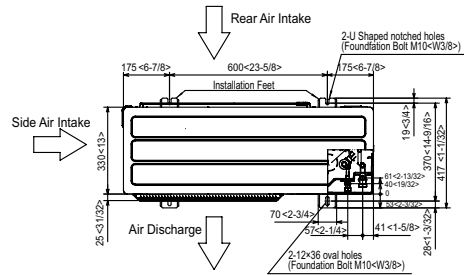
Dimensions of space needed for service access are shown in the below diagram.



Please secure the unit firmly with 4 foundation (M10<W3/8>) bolts. (Bolts and washers must be purchased locally.)

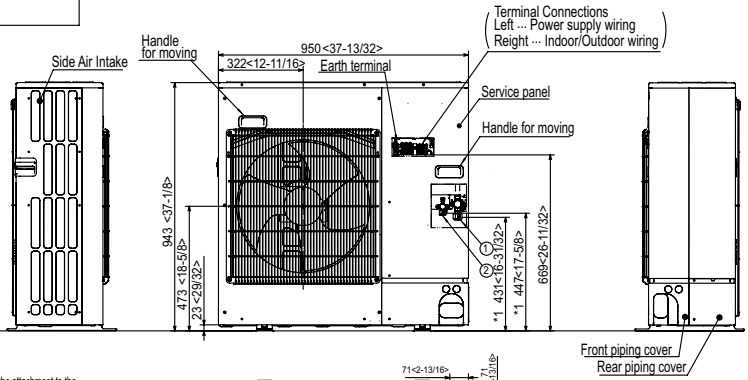
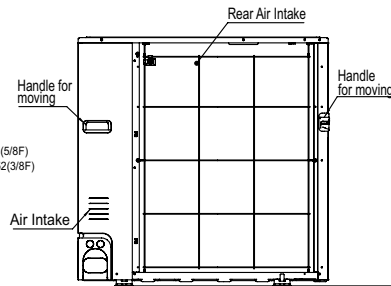


Piping and wiring connections can be made from 4 directions: FRONT, Right, Rear and Below.



Unit: mm&lt;in&gt;

① --- Refrigerant GAS pipe connection (FLARE) ø15.88(5/8F)  
 ② --- Refrigerant LIQUID pipe connection (FLARE) ø 9.52(3/8F)  
 \*1--- Indication of STOP VALVE connection location.



**Leftmost drawing:**

- Labels: Power supply wiring hole (Z-27(knockout)), Front trunking hole (knockout), Front piping hole (knockout).
- Dimensions: 40"-9.18", 45"-1.25(32)", 71"-2.7(8)", 92" $\leq$ -3.5(8)", 65" $\leq$ -9.18", 17"-1.17(8)".

**Second drawing from left:**

- Label: Right piping hole (knockout).
- Dimensions: 75"-2.31(32)", 40"-1.91(8)", 71"-2.7(8)", 92" $\leq$ -3.5(8)", 19"-3.94", 65" $\leq$ -2.31(8)".

**Third drawing from left:**

- Labels: Right trunking hole (knockout), Power supply wiring hole (Z-27(-1.18)(knockout)).
- Dimensions: 55"-1.25(32)", 40"-1.91(8)", 71"-2.7(8)", 92" $\leq$ -3.5(8)", 65" $\leq$ -9.18", 17"-1.17(8)".

**Rightmost drawing:**

- Labels: Rear trunking hole (knockout), Rear piping hole (knockout).
- Dimensions: 40"-1.91(8)", 74" $\pm$ -1.93(2)", 31" $\pm$ -1.77(8)".

inner side of each panel.  
1/2 Conduit attachment

