

**TPCA0A0421KA70A & TRUYA0421KA70BA**  
**42,000 BTU/H CEILING-SUSPENDED INDOOR UNIT**  
**42,000 BTU/H COOLING ONLY OUTDOOR**



Job Name:

System Reference:

Date:



Indoor Unit.....TPCA0A0421KA70A

Outdoor Unit.....TRUYA0421KA70BA

**INDOOR UNIT FEATURES**

- Airflow settings for high and low ceiling applications
- Knock-out for outside-air intake
- Optional i-see Sensor™ for air distribution and energy saving
- Auto fan speed mode
- Filter status indicator
- Easy-to-clean, washable filter
- Suspends from ceiling for quick and easy installation
- Ideal for larger retail stores, classrooms, and restaurants
- 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
- Power receiver pre-charged with refrigerant volume for piping length up to 100 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 on heat exchanger and base panel (rated for 2,000 hours in accordance with ASTM B117 testing)

# SPECIFICATIONS: TPCA0A0421KA70A & TRUYA0421KA70BA

|                                          |                                                            |                     |                                                             |
|------------------------------------------|------------------------------------------------------------|---------------------|-------------------------------------------------------------|
| Cooling at 95°F <sup>1</sup>             | Maximum Capacity                                           | BTU/H               | 42,000                                                      |
|                                          | Rated Capacity                                             | BTU/H               | 42,000                                                      |
|                                          | Minimum Capacity                                           | BTU/H               | 16,000                                                      |
|                                          | Maximum Power Input                                        | W                   | 4,110                                                       |
|                                          | Rated Power Input                                          | W                   | 4,110                                                       |
|                                          | Moisture Removal                                           | Pints/h             | 11.7                                                        |
|                                          | Sensible Heat Factor                                       |                     | 0.69                                                        |
|                                          | Power Factor [208V / 230V]                                 | %                   | 95.6 / 95.6                                                 |
| Efficiency                               | SEER                                                       |                     | 17.6                                                        |
|                                          | EER <sup>1</sup>                                           |                     | 10.2                                                        |
|                                          | 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                   | 30                                                          |
|                                          | Recommended Wire Size [Indoor - Outdoor]                   | AWG                 | 14                                                          |
|                                          | Power Supply                                               |                     | Indoor unit is powered by the outdoor unit                  |
| Indoor Unit                              | MCA                                                        | A                   | 2.0                                                         |
|                                          | Fan Motor Full Load Amperage                               | A                   | 0.97                                                        |
|                                          | Fan Motor Type                                             |                     | DC Motor                                                    |
|                                          | Airflow Rate at Cooling, Dry                               | CFM                 | 810–885–955–1,025                                           |
|                                          | Airflow Rate at Cooling, Wet                               | CFM                 | 740–810–885–955                                             |
|                                          | Airflow Rate at Heating, Dry                               | CFM                 | 810–885–955–1,025                                           |
|                                          | Sound Pressure Level [Cooling]                             | dB[A]               | 39–41–43–45                                                 |
|                                          | Sound Pressure Level [Heating]                             | dB[A]               | 39–41–43–45                                                 |
|                                          | Drain Pipe Size                                            | In. [mm]            | 1-1/32 [26]                                                 |
|                                          | Coating on Heat Exchanger                                  |                     | —                                                           |
|                                          | External Finish Color                                      |                     | White Munsell 6.4Y 8.9/0.4                                  |
|                                          | Unit Dimensions                                            | W x D x H: In. [mm] | 63 x 26-3/4 x 9-1/16 [1,600 x 680 x 230]                    |
|                                          | Package Dimensions                                         | W x D x H: In. [mm] | 65-3/4 x 29-15/16 x 13-3/4 [1,670 x 760 x 350]              |
|                                          | Unit Weight                                                | Lbs. [kg]           | 86 [39]                                                     |
|                                          | Package Weight                                             | Lbs. [kg]           | 102 [46]                                                    |
| 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                                               |
| Outdoor Unit                             | MCA                                                        | A                   | 25.0                                                        |
|                                          | MOCP                                                       | A                   | 31                                                          |
|                                          | Fan Motor Full Load Amperage                               | A                   | 0.5 + 0.5                                                   |
|                                          | Airflow Rate [Cooling / Heating]                           | CFM                 | 3880                                                        |
|                                          | Refrigerant Control                                        |                     | LEV                                                         |
|                                          | Defrost Method                                             |                     | Reverse Cycle                                               |
|                                          | Coating on Heat Exchanger                                  |                     | Blue Fin Coating (BS Model only)                            |
|                                          | Sound Pressure Level, Cooling <sup>1</sup>                 | dB(A)               | 52                                                          |
|                                          | Compressor Type                                            |                     | INVERTER-driven twin rotary                                 |
|                                          | Compressor Model                                           |                     | MNB33FBRMC-L                                                |
|                                          | Compressor Rated Load Amps                                 | A                   | 8                                                           |
|                                          | Compressor Locked Rotor Amps                               | A                   | 13.0                                                        |
|                                          | Compressor Oil [Type // Charge]                            | oz.                 | FV50S // 45                                                 |
|                                          | External Finish Color                                      |                     | Ivory Munsell 3Y 7.8/1.1                                    |
|                                          | Base Pan Heater                                            |                     | N/A                                                         |
|                                          | Unit Dimensions                                            | W x D x H: In. [mm] | 41-5/16 x 13 (+1-3/16) x 52-11/16 [1050 x 330 (+30) x 1338] |
|                                          | Package Dimensions                                         | W x D x H: In. [mm] | 42-15/16 x 17-11/16 x 56-4/16 [1091 x 450 x 1429]           |
|                                          | Unit Weight                                                | Lbs. [kg]           | 211 [96]                                                    |
|                                          | Package Weight                                             | Lbs. [kg]           | 243 [110]                                                   |
| Outdoor Unit Operating Temperature Range | Cooling Air Temp [Maximum / Minimum]*                      | °F                  | 115 DB / -40 DB                                             |
| Refrigerant                              | Maximum Charge Quantity                                    | Lbs, oz             | 10.0, 6.0                                                   |
|                                          | Initial Charge Quantity                                    | Ft. [m]             | 0.0 [30.0]                                                  |
|                                          | Additional Refrigerant Charge Per Additional Piping Length | oz./Ft. [g/m]       | 0.3 [22.5]                                                  |
| 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                                                          |

## 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.

## INDOOR UNIT ACCESSORIES: TPCA0A0421KA70A

|                            |                                                                                             |                                            |
|----------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------|
| Control Interface          | BACnet® and Modbus® Interface                                                               | <input type="checkbox"/> PAC-UKPRC001-CN-1 |
|                            | CN24 Relay Kit                                                                              | <input type="checkbox"/> CN24RELAY-KIT-CM3 |
|                            | IT Extender                                                                                 | <input type="checkbox"/> PAC-WHS01IE-E     |
|                            | kumo station® for kumo cloud®                                                               | <input type="checkbox"/> TAC-WHS01HC-E     |
|                            | Lockdown bracket for remote controller                                                      | <input type="checkbox"/> RCMKP1CB          |
|                            | Remote Operation Adapter†                                                                   | <input type="checkbox"/> PAC-SF40RM-E      |
|                            | Thermostat Interface                                                                        | <input type="checkbox"/> PAC-US444CN-1     |
|                            | Thermostat Interface                                                                        | <input type="checkbox"/> PAC-US445CN-1     |
|                            | USNAP Adapter                                                                               | <input type="checkbox"/> PAC-WHS01UP-E     |
|                            | Wireless Interface for kumo cloud®                                                          | <input type="checkbox"/> PAC-USWHS002-WF-2 |
| Remote Sensor              | Flush Mount Remote Temperature Sensor                                                       | <input type="checkbox"/> PAC-USSEN002-FM-1 |
|                            | Flush Mount Temperature Sensor                                                              | <input type="checkbox"/> PAC-USSEN001-FM-1 |
|                            | Remote Temperature Sensor                                                                   | <input type="checkbox"/> PAC-SE41TS-E      |
|                            | Wireless temperature and humidity sensor for kumo cloud®                                    | <input type="checkbox"/> PAC-USWHS003-TH-1 |
| Wired Remote Controller    | Deluxe Wired MA Remote Controller†                                                          | <input type="checkbox"/> TAR-40MAU         |
|                            | Simple MA Remote Controller†                                                                | <input type="checkbox"/> TAC-YT53CRAU-J    |
|                            | Touch MA Controller†                                                                        | <input type="checkbox"/> TAR-CT01MAU-SB    |
| Wireless Remote Controller | kumo touch™ RedLINK™ Wireless Controller                                                    | <input type="checkbox"/> MHK2              |
|                            | Wireless MA Receiver                                                                        | <input type="checkbox"/> PAR-SR32MA-E      |
|                            | Wireless MA Remote Controller                                                               | <input type="checkbox"/> TAR-FL32MA-E      |
|                            | Wireless Receiver Kit                                                                       | <input type="checkbox"/> PAR-SL93B-E       |
|                            | Wireless Receiver Kit with i-See sensor™                                                    | <input type="checkbox"/> PAR-SA92MW-E      |
| Condensate                 | Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended] | <input type="checkbox"/> X87-721           |
|                            | Blue Diamond (MegaBlue Advanced) Condensate Pump w/ Reservoir & Sensor                      | <input type="checkbox"/> X87-835           |
|                            | Blue Diamond Sensor Extension Cable — 15 Ft.                                                | <input type="checkbox"/> C13-103           |
|                            | Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H                                     | <input type="checkbox"/> COMBI             |
| Disconnect Switch          | (30A/600V/UL) [fits 2" X 4" utility box] - Black                                            | <input type="checkbox"/> TAZ-MS303         |
|                            | (30A/600V/UL) [fits 2" X 4" utility box] - White                                            | <input type="checkbox"/> TAZ-MS303W        |
| Drain Pump                 | Drain Pump Kit                                                                              | <input type="checkbox"/> PAC-SH84DM-E      |
| Filter                     | 65% Medium Efficiency Filter (MERV 8)                                                       | <input type="checkbox"/> PAC-SH90KF-E      |
| i-see Sensor® Panel        | i-see Sensor®                                                                               | <input type="checkbox"/> PAC-SH91MK-E      |
| Lineset                    | 10' x 3/8" x 10' x 5/8" Lineset (Twin-Tube Insulation)††                                    | <input type="checkbox"/> MPLS385812T-10    |
|                            | 100' x 3/8" x 100' x 5/8" Lineset (Twin-Tube Insulation)††                                  | <input type="checkbox"/> MPLS385812T-100   |
|                            | 15' x 3/8" x 15' x 5/8" Lineset (Twin-Tube Insulation)††                                    | <input type="checkbox"/> MPLS385812T-15    |
|                            | 30' x 3/8" x 30' x 5/8" Lineset (Twin-Tube Insulation)††                                    | <input type="checkbox"/> MPLS385812T-30    |
|                            | 50' x 3/8" x 50' x 5/8" Lineset (Twin-Tube Insulation)††                                    | <input type="checkbox"/> MPLS385812T-50    |
|                            | 65' x 3/8" x 65' x 5/8" Lineset (Twin-Tube Insulation)††                                    | <input type="checkbox"/> MPLS385812T-65    |

**NOTES:**

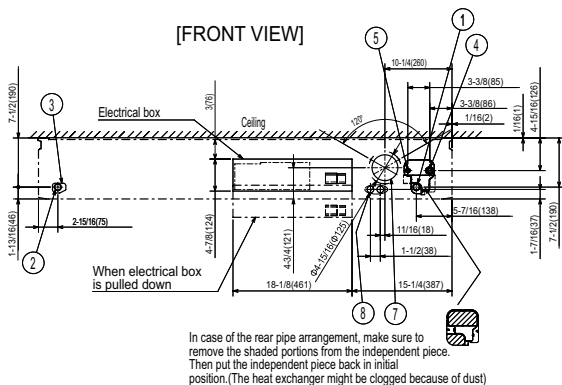
†PAC-SF40RM-E (Unable to use with wireless remote controller)

## OUTDOOR UNIT ACCESSORIES: TRUYA0421KA70BA

|                      |                                                                |                                                                 |
|----------------------|----------------------------------------------------------------|-----------------------------------------------------------------|
| Air Outlet Guide     | Air Outlet Guide (1 Piece)                                     | <input type="checkbox"/> PAC-SH96SG-E (two pieces are required) |
| Control/Service Tool | Control/Service Tool                                           | <input type="checkbox"/> PAC-SK52ST                             |
|                      | M- & P-Series Maintenance Tool Cable Set                       | <input type="checkbox"/> M21EC0397                              |
|                      | USB/UART Conversion Cable (Required for all laptop connection) | <input type="checkbox"/> M21EC1397                              |
| M-NET Converter      | M-NET Converter                                                | <input type="checkbox"/> PAC-SJ85MA-E                           |
|                      | M-NET Converter                                                | <input type="checkbox"/> PAC-SJ95MA-E                           |
| Mounting Pad         | Condensing Unit Mounting Pad: 24" x 42" x 3"                   | <input type="checkbox"/> ULTRILITE2                             |
| Stand                | 18" Dual Fan Stand                                             | <input type="checkbox"/> QSMS1802M                              |
|                      | 24" Dual Fan Stand                                             | <input type="checkbox"/> QSMS2402M                              |
|                      | Condenser Wall Bracket                                         | <input type="checkbox"/> QSWB2000M-1                            |
|                      | Condenser Wall Bracket - Stainless Steel Finish                | <input type="checkbox"/> QSWBSS                                 |
|                      | Outdoor Unit Stand — 12" High                                  | <input type="checkbox"/> QSMS1202M                              |
| Wind Baffle          | Front Wind Baffle                                              | <input type="checkbox"/> WB-PA3                                 |
|                      | Rear Wind Baffle                                               | <input type="checkbox"/> WB-RE6                                 |
|                      | Side Advanced Wind Baffle                                      | <input type="checkbox"/> WB-SD6                                 |

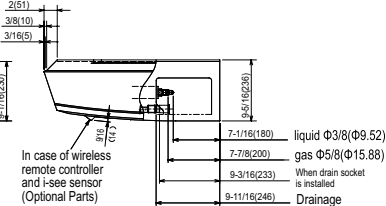
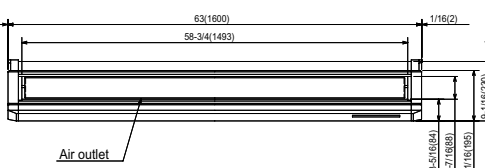
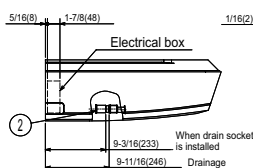
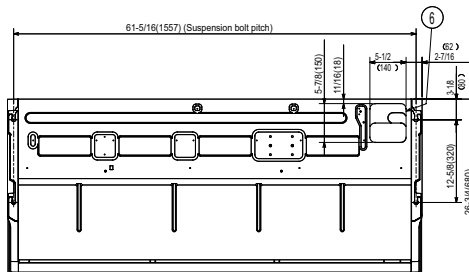
# INDOOR UNIT DIMENSIONS: TPCA0A0421KA70A

Unit: in (mm)

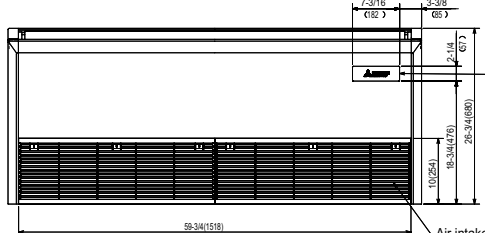


## NOTES.

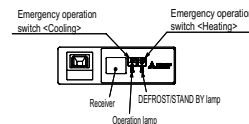
1. Use M10 or W3/8 screw for anchor bolt.
2. Please be sure when installing the drain pump (option parts), refrigerant pipe will be only upward.



- ① Drainage pipe connection(1(26mm)I.D.)
- ② Drainage pipe connection(for the left arrangement)
- ③ Knockout hole for left drain-piping arrangement
- ④ Refrigerant-pipe connection (gas pipe side/flared connection)
- ⑤ Refrigerant-pipe connection (liquid pipe side/flared connection)
- ⑥ Knockout hole for upper drain pipe arrangement
- ⑦ Knockout hole for fresh air intake  $\Phi 3-15/16$ ( $\Phi 100$ )
- ⑧ Knockout hole for wiring arrangement  $\Phi 7/8$ ( $\Phi 22$ )  
Accessory...Drain socket (1(26mm)I.D.)

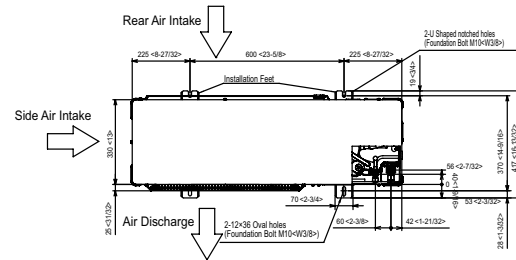
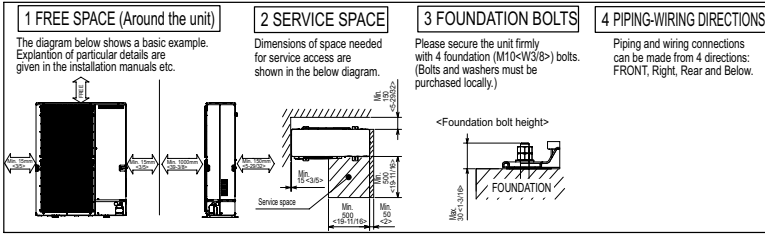


## In case of wireless remote controller and i-see sensor(Optional Parts)



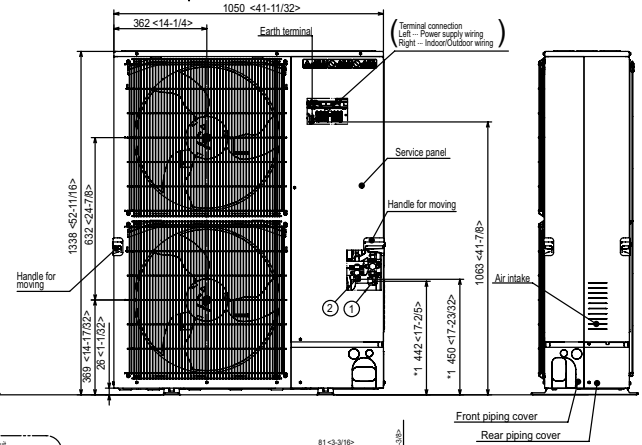
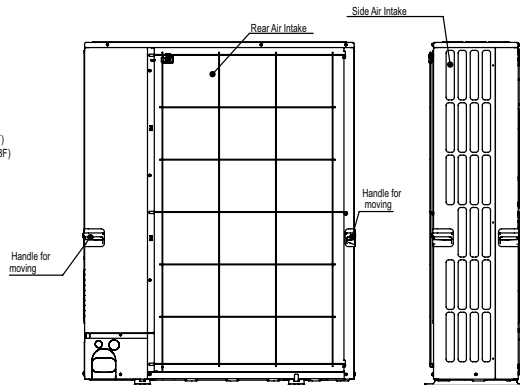
# OUTDOOR UNIT DIMENSIONS: TRUYA0421KA70BA

Unit: mm<in>

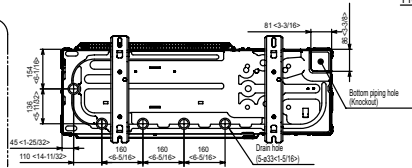
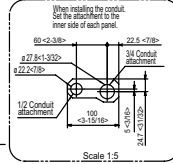
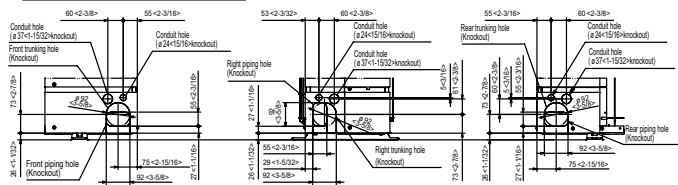


## Example of Notes

- ① - Refrigerant GAS pipe connection (FLARE) ø15.88(5/8")
- ② - Refrigerant LIQUID pipe connection (FLARE) ø9.52(3/8")
- \*1 - Indication of STOP VALVE connection location.



## Piping Knockout Hole Details



Front piping cover  
Rear piping cover