| WALL MOUNTED INVERTER Reverse Cycle | |
|---|---|
| **INDOOR** | **OUTDOOR** |
| **ASTG30KMTA** | **AOTG30KMTA** |

# TECHNICAL SPECIFICATIONS

| | | | | |
|---|---|---|---|---|
| **Capacity** | **Cooling** | **Rated** | kW | 8.5 |
| | | **Range** | kW | 2.9 - 10.5 |
| | **Heating** | **Rated** | kW | 9.00 |
| | | **Range** | kW | 2.2 - 11.2 |
| **Input** | **Cooling** | | kW | 2.46 |
| | **Heating** | | kW | 2.34 |
| **Current** | **Cooling** | | A | 10.4 |
| | **Heating** | | A | 10.1 |
| **Max Running Current** | **Cooling** (1) | | A | 17.0 |
| | **Heating** | | A | 17.0 |
| **Starting Current** | | | A | 10.4 |
| **EER (Cooling)** | | | | 3.45 |
| **AEER** | | | | 3.490 |
| **COP (Heating)** | | | | 3.84 |
| **ACOP** | | | | 3.938 |
| **Moisture Removal** | | | l/h | 2.7 |
| **Air Circulation** | **Indoor (High Fan)** | | l/s | 389 |
| | **Outdoor** | | l/s | 945 |
| **Power Supply** | **Outdoor** | | 240V - 1Ph - 50Hz | |
| **Sound Pressure Level** | **Indoor (High Fan)** | | dB | 51 |
| | **Outdoor** | | dB | 50 |
| **Sound Power Level** | **Outdoor** | | dB | 67 |
| **Weight (Net)** | **Indoor** | | Kg | 18 |
| | **Outdoor** | | Kg | 61 |
| **Dimensions HxWxD (mm)** | **Indoor** | | 340 × 1,150 × 280 | |
| | **Outdoor** | | 830 × 900 × 330 | |
| **Connection Pipe Sizes** | **Liquid** | | mm | Ø 9.52 |
| | **Gas** | | mm | Ø 15.88 |
| **Drain Pipe Sizes** | **Internal** | | mm | 13.8 |
| | **External** | | mm | 15.8 - 16.7 |

1 = The maximum current is the maximum value when operated within the operation range.

Cooling/Heating capacities are based on the following conditions (AS3823).

**Cooling**
Indoor temp : 27°C DB / 19°CWB
Outdoor temp : 35°C DB / 24°C WB

**Heating**
Indoor temp : 20°C DB / 15°C WB
Outdoor temp : 7°C DB / 6°C WB

Running current is at rated conditions (AS3823) and does not include compressor start-up or variations in power supply and load conditions.

All wiring specifications are minimum recommendations. Please consult AS/NZS 3000 and your local wiring rules for clarification of cable and circuit requirements.

Suitable access for warranty & service is required.

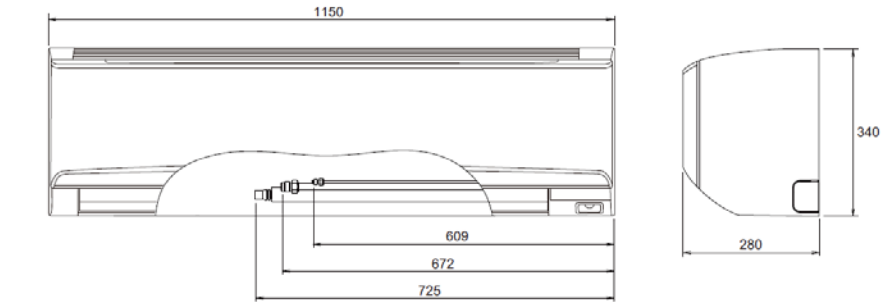
SOUND POWER LEVELS measured in accordance to AS1217.

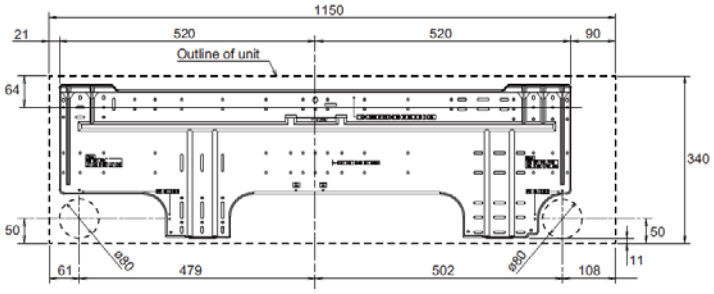
Specifications and design are subject to change without notice. Please check with your dealer.

# Dimensions

## Indoor Unit

Unit: mm

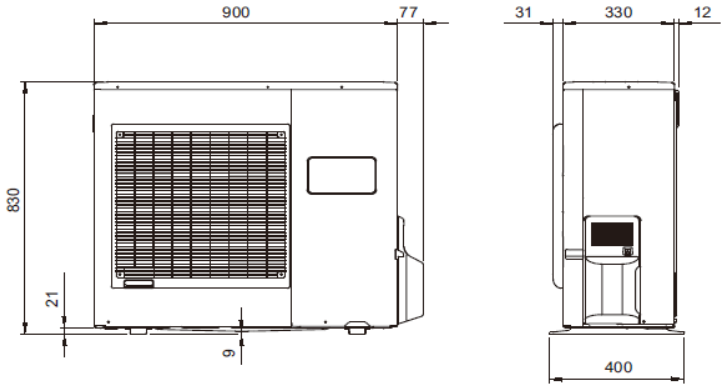



## Outdoor Unit

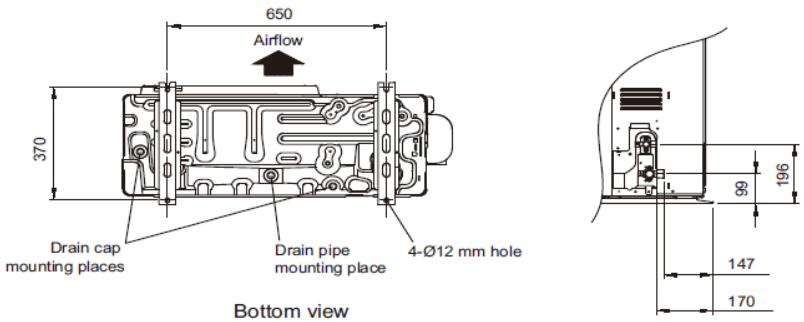
Unit: mm

Top view




Front view

Side view




Bottom view

# Technical Data

PI = Power Input (kW) SHC = Sensible Heat Capacity (kW) TC = Total Capacity (kW)

## Cooling Capacity

## Air Flow Rate 1400 $m^3/h$

| | | Indoor temperature | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | °CDB | 18 | | | 21 | | | 23 | | | 25 | | | 27 | | | 29 | | | 32 | | |
| | °CWB | 12 | | | 15 | | | 16 | | | 18 | | | 19 | | | 21 | | | 23 | | |
| Outdoor temperature | °CDB | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP | TC | SHC | IP |
| | | kW | | | kW | | | kW | | | kW | | | kW | | | kW | | | kW | | |
| | -10 | 6.25 | 5.14 | 0.75 | 6.96 | 5.17 | 0.76 | 7.20 | 5.62 | 0.76 | 7.67 | 5.64 | 0.77 | 7.91 | 6.09 | 0.77 | 8.39 | 6.07 | 0.78 | 8.86 | 6.46 | 0.79 |
| | 0 | 6.16 | 5.09 | 0.80 | 6.86 | 5.12 | 0.81 | 7.10 | 5.56 | 0.82 | 7.57 | 5.58 | 0.83 | 7.80 | 6.03 | 0.83 | 8.27 | 6.00 | 0.84 | 8.74 | 6.40 | 0.85 |
| | 5 | 6.13 | 5.05 | 0.85 | 6.83 | 5.08 | 0.87 | 7.07 | 5.53 | 0.87 | 7.53 | 5.55 | 0.88 | 7.77 | 5.99 | 0.88 | 8.23 | 5.96 | 0.89 | 8.70 | 6.35 | 0.90 |
| | 10 | 6.11 | 5.02 | 0.90 | 6.80 | 5.05 | 0.92 | 7.04 | 5.49 | 0.92 | 7.50 | 5.51 | 0.93 | 7.73 | 5.95 | 0.94 | 8.20 | 5.93 | 0.95 | 8.66 | 6.31 | 0.96 |
| | 15 | 6.65 | 5.27 | 1.25 | 7.41 | 5.31 | 1.27 | 7.67 | 5.77 | 1.28 | 8.17 | 5.79 | 1.29 | 8.42 | 6.25 | 1.30 | 8.93 | 6.22 | 1.31 | 9.43 | 6.63 | 1.32 |
| | 20 | 7.20 | 5.53 | 1.60 | 8.02 | 5.56 | 1.62 | 8.30 | 6.05 | 1.63 | 8.84 | 6.07 | 1.65 | 9.12 | 6.55 | 1.65 | 9.66 | 6.52 | 1.67 | 10.21 | 6.95 | 1.69 |
| | 25 | 6.95 | 5.41 | 1.79 | 7.74 | 5.45 | 1.82 | 8.00 | 5.92 | 1.83 | 8.53 | 5.94 | 1.85 | 8.80 | 6.41 | 1.86 | 9.32 | 6.39 | 1.88 | 9.85 | 6.81 | 1.90 |
| | 30 | 6.63 | 5.20 | 2.08 | 7.39 | 5.23 | 2.12 | 7.64 | 5.68 | 2.13 | 8.14 | 5.70 | 2.15 | 8.40 | 6.16 | 2.16 | 8.90 | 6.13 | 2.18 | 9.40 | 6.53 | 2.20 |
| | 35 | 6.72 | 5.29 | 2.37 | 7.48 | 5.32 | 2.41 | 7.74 | 5.79 | 2.42 | 8.25 | 5.81 | 2.45 | 8.50 | 6.27 | 2.46 | 9.01 | 6.24 | 2.48 | 9.52 | 6.65 | 2.51 |
| | 40 | 5.56 | 4.77 | 2.08 | 6.20 | 4.80 | 2.11 | 6.41 | 5.22 | 2.12 | 6.83 | 5.23 | 2.14 | 7.04 | 5.65 | 2.15 | 7.46 | 5.63 | 2.18 | 7.89 | 6.00 | 2.20 |
| | 46 | 4.74 | 4.47 | 2.11 | 5.28 | 4.50 | 2.15 | 5.46 | 4.89 | 2.16 | 5.82 | 4.91 | 2.18 | 6.00 | 5.30 | 2.19 | 6.36 | 5.28 | 2.21 | 6.72 | 5.62 | 2.23 |

## Heating Capacity

## Air Flow Rate 1400 $m^3/h$

| | | | Indoor temperature | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 22 | | 24 | |
| Outdoor temperature | °CDB | °CWB | TC | IP | TC | IP | TC | IP | TC | IP | TC | IP |
| | | | kW | | kW | | kW | | kW | | kW | |
| | -15 | -16 | 7.65 | 3.91 | 7.47 | 3.99 | 7.29 | 4.08 | 7.10 | 4.16 | 6.92 | 4.24 |
| | -10 | -11 | 8.32 | 3.92 | 8.12 | 4.00 | 7.92 | 4.08 | 7.72 | 4.17 | 7.52 | 4.25 |
| | -5 | -7 | 8.98 | 3.93 | 8.77 | 4.01 | 8.55 | 4.09 | 8.34 | 4.17 | 8.12 | 4.26 |
| | 0 | -2 | 9.64 | 3.94 | 9.41 | 4.02 | 9.18 | 4.10 | 8.95 | 4.18 | 8.73 | 4.26 |
| | 5 | 3 | 10.63 | 3.87 | 10.38 | 3.95 | 10.12 | 4.03 | 9.87 | 4.11 | 9.62 | 4.19 |
| | 7 | 6 | 11.03 | 3.85 | 10.76 | 3.93 | 10.50 | 4.01 | 10.24 | 4.09 | 9.98 | 4.17 |
| | 10 | 8 | 11.34 | 3.91 | 11.07 | 3.99 | 10.80 | 4.08 | 10.53 | 4.16 | 10.26 | 4.24 |
| | 15 | 10 | 10.28 | 3.09 | 10.04 | 3.15 | 9.79 | 3.21 | 9.55 | 3.28 | 9.30 | 3.33 |
| | 20 | 15 | 10.41 | 2.73 | 10.16 | 2.78 | 9.91 | 2.84 | 9.66 | 2.90 | 9.41 | 2.94 |
| | 24 | 18 | 10.99 | 2.73 | 10.73 | 2.78 | 10.47 | 2.84 | 10.20 | 2.90 | 9.94 | 2.94 |

## Air Flow Chart (Cooling)

| | Fan Speed | Number of Rotations (rpm) | Airflow | |
|---|---|---|---|---|
| **Indoor** | High | 1370 | l/s | 389 |
| | Medium | 1150 | l/s | 319 |
| | Low | 950 | l/s | 256 |
| | Quiet | 780 | l/s | 200 |
| **Outdoor** | High | 800 | l/s | 861 |

## Air Flow Chart (Heating)

| | Fan Speed | Number of Rotations (rpm) | Airflow | |
|---|---|---|---|---|
| **Indoor** | High | 1370 | l/s | 389 |
| | Medium | 1150 | l/s | 319 |
| | Low | 950 | l/s | 256 |
| | Quiet | 780 | l/s | 200 |
| **Outdoor** | High | 830 | l/s | 945 |

# Specifications

## Electrical

| | | | |
|---|---|---|---|
| Power Requirement | 240V – 1Ph – 50Hz Outdoor | | |
| Fuse Or Circuit Breaker (A) | 32 | Min Power Cable (mm²) | 4.0 |
| | | Interconnecting Cables | 3+E |

## Compressor

| | |
|---|---|
| Type | Hermetic × 1 |
| Motor (W) | 2200 |

## Indoor Coil

| | |
|---|---|
| Type | Copper Tube + Aluminium Fin |
| Rows / Stages | Main: 3 × 28, Sub1: 1 × 6, Sub2: 1 × 4 |
| Fin Pitch (mm) | Main: 1.2, Sub: 1.4 |
| Coating | Hydrophilic Coating |

## Outdoor Coil

| | |
|---|---|
| Type | Copper Tube + Aluminium Fin |
| Rows / Stages | 2 x 38 |
| Fin Pitch (mm) | 1.3 |
| Coating | Blue Fin |

## Indoor Fan And Motor

| | |
|---|---|
| Fan Type | Cross flow fan × 1 |
| Motor (W) | 80 |

## Outdoor Fan And Motor

| | |
|---|---|
| Fan Type | Propeller fan × 1 |
| Motor (W) | 100 |

## Refrigeration System

| | | |
|---|---|---|
| Refrigerant Type | | R32 |
| Charge | g | 1650 |
| Maximum Line Length / Height | m | 50 / 30 |
| Pre-Charged Length | m | 20 |
| Additional Charge | g/m | 45 |
| Connection Method | | Flared |
| Expansion Control | | Electronic Expansion Valve |

## Safety Devices

| Type of protection | Protection form | | |
|---|---|---|---|
| Circuit protection | Current fuse (Near the terminal) | | 250 V, 25 A |
| | Current fuse (Filter PCB) | | 250 V, 10 A |
| | Current fuse (Main PCB) | | 250 V, 3.15 A |
| Fan motor protection | Thermal protection | Activate | 150±15 °C - Fan motor stop |
| | | Reset | 120±15 °C - Fan motor restart |
| Compressor protection | Terminal protection program (Compressor temp.) | Activate | 120 °C - Compressor stop |
| | | Reset | 80 °C - Compressor restart |
| | Thermal protection program (Discharge temp.) | Activate | 110°C - Compressor stop |
| | | Reset | After 7 minutes, Compressor restart |
| High pressure protection | Pressure switch | Activate | 4.2±0.1 MPa - Compressor stop |
| | | Reset | 3.2±0.15 MPa, Compressor restart |
| Low pressure protection | Pressure sensor | Activate | 0.12 MPa, Compressor stop |
| | | Reset | 0.15 MPa, Compressor restart |

*** Specifications and design are subject to change without notice. Please check with your dealer.**


**FUJITSU GENERAL (AUST) PTY LIMITED**
**ACN 001 229 554**
A SUBSIDIARY OF FUJITSU GENERAL LIMITED

**HEAD OFFICE:** **SYDNEY** : (02) 8822 2500
**MELBOURNE** : (03) 9543 5899
**BRISBANE** : (07) 3257 2800
**ADELAIDE** : (08) 8172 1180
**PERTH** : (08) 9240 5877

**HOME PAGE** www.fujitsugeneral.com.au