

# TUN

## Air handling unit



- **Very quiet**
- **Available units with heat exchanger with 4-6 rows**
- **Ductable units**



### DESCRIPTION

The air-conditioning units of the TUN series are intended for civil, commercial and hotel systems in small to medium sized environments. They are distinguished by their compactness (a necessary requisite for false ceiling applications) and low noise. The wide range of accessories meets various system requirements.

### STRUCTURE

#### Case

Structure made with 1.5 mm thick hot-dip galvanized sheet metal insulated internally with class V0 insulation. The unit is predisposed for connection with any delivery or intake channels.

**Specific mounts help with the task of fixing the unit to the wall either horizontally or vertically.**

#### Ventilation group

Double suction centrifugal fans with forward blades and directly coupled motor. The single-phase 230V 50Hz motor offers multiple speeds, three of which can be selected using a command.

#### Heat exchanger coil

The 4, 6 row coils, which can be fed with hot or refrigerated water, are made of copper tubing with aluminium fins blocked by the mechanical expansion of the tubes.

They are equipped with threaded sleeves for the plumbing connections and the air breather valve. The coils can be rotated at the work site. Also available, 2-row post-heating coils made of copper tubing with aluminium fins blocked by mechanical expansion of the tubes.

#### Condensate drip

Insulated internal condensation collection tub made of 1 mm thick hot-dip galvanised sheet metal.

### ACCESSORIES

**AER503IR:** Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric

heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

**SAS5:** air probe kit (L = 15 m) with probe-locking cable grommet.

**SIT3:** Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

**SW5:** water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

**WMT05:** Electronic thermostat with thermostated ventilation.

**WMT10:** Electronic thermostat, white, with thermostated or continuous ventilation.

**VCT:** These are 3-way ball valves made of bronze, with female/female connections Ø 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

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**VCTK:** The VCT series valves can be combined with the actuators On-Off 230V. The actuator must be selected according to the type of system/adjustment provided.

**VCTKM:** The VCT series valves can be combined with the actuators 24V modulating. The actuator must be selected according to the type of system/adjustment provided.

**M2S:** Galvanised steel mixing chamber with two dampers for air calibration. Louver pitch 50 mm, the galvanised steel adjustment knob (diameter 8 mm) can be motorised.

**M3S:** Galvanised steel mixing chamber with three air calibration dampers and galvanised steel plates. Must necessarily be paired with the VRF accessory.

**FTF:** Soft bag filters. Section in galvanised steel sheet metal with F6 soft bag filters. Must necessarily be paired in the powered units.

**B2R:** Hot water coil with 2 rows for lines with 4 tubes. Positioned internally at the base of the equipment, downstream from the main coil.

**PBE:** Section with post heating coil composed of armoured heaters equipped with a double safety thermostat.

**SSL:** Module with seven galvanised steel sheet metal silencers and seven stone wool silencers covered by polyethylene film to prevent chipping.

**S2Z:** Galvanised steel opposed louvers dampers for mixing outside air with recirculating air.

**VRF:** Recovery fan unit equipped with electronic variable speed control. The unit is contained in a galvanised steel sheet metal section equipped with flat filters, efficiency level G4 (EN779).

**SAS:** Air calibration damper with galvanised sheet metal louvers to be positioned for intake. Louver pitch 50 mm; the galvanised steel adjustment knob can be motorised.

**GMD:** Air delivery grill with louvers that can be positioned for the delivery of air in the room to be treated. May be installed directly on the device by removing the flanges or installed on the wall.

**GAP:** Intake grille with louvers at a fixed 45° angle. May be installed directly on the device by removing the flanges or installed on the wall.

**FPI:** ISO COARSE 50% filter flange for intake at base.

**FPF:** Filter ISO COARSE 50%.

## ACCESSORIES COMPATIBILITY

### Control panels

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| AER503IR  | .      | .       | .      | .       | .      | .      | .      | .      | .      | .      | .      | .       | .      | .       |
| SA5       | .      | .       | .      | .       | .      | .      | .      | .      | .      | .      | .      | .       | .      | .       |
| SIT3      | .      | .       | .      | .       | .      | .      | .      | .      | .      | .      | .      | .       | .      | .       |
| SW5       | .      | .       | .      | .       | .      | .      | .      | .      | .      | .      | .      | .       | .      | .       |
| WMT05     | .      | .       | .      | .       | .      | .      | .      | .      | .      | .      | .      | .       | .      | .       |
| WMT10     | .      | .       | .      | .       | .      | .      | .      | .      | .      | .      | .      | .       | .      | .       |

**With WMT05 and WMT10 control panels:** when paired with units TUN154-156-254-256-404-404P-406-406P use of the SIT3 accessory is mandatory and the 2A fuse must be replaced by a 4A fuse.

### 2 way valve kit

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| VCT102    | .      | .       | .      | .       | .      |        |        |        |        |        |        |         |        |         |
| VCT202    |        |         |        |         |        | .      | .      | .      | .      |        |        |         |        |         |
| VCT402    |        |         |        |         |        |        |        |        | .      | .      |        |         |        |         |
| VCT402P   |        |         |        |         |        |        |        |        |        | .      | .      | .       | .      | .       |

### 3 way valve kit

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| VCT103    | .      | .       | .      | .       |        |        |        |        |        |        |        |         |        |         |
| VCT203    |        |         |        |         | .      | .      | .      | .      |        |        |        |         |        |         |
| VCT403    |        |         |        |         |        |        |        |        | .      | .      |        |         |        |         |
| VCT403P   |        |         |        |         |        |        |        |        |        | .      | .      | .       | .      | .       |

### Actuator VCTK 230V

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| VCTK      | .      | .       | .      | .       | .      | .      | .      | .      | .      | .      | .      | .       | .      | .       |

### Actuator 24V

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| VCTKM     | .      | .       | .      | .       | .      | .      | .      | .      | .      | .      | .      | .       | .      | .       |

### 2-damper mixing chamber

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| M2S1      | .      | .       | .      | .       | .      |        |        |        |        |        |        |         |        |         |
| M2S2      |        |         |        |         |        | .      |        |        |        |        |        |         |        |         |
| M2S3      |        |         |        |         |        |        | .      |        |        |        |        |         |        |         |
| M2S4      |        |         |        |         |        |        |        | .      | .      | .      |        |         |        |         |
| M2S5      |        |         |        |         |        |        |        |        | .      | .      |        |         |        |         |

### 3-damper mixing chamber

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| M3S1      | .      | .       | .      | .       | .      |        |        |        |        |        |        |         |        |         |
| M3S2      |        |         |        |         |        | .      |        |        |        |        |        |         |        |         |
| M3S3      |        |         |        |         |        |        | .      |        |        |        |        |         |        |         |
| M3S4      |        |         |        |         |        |        |        | .      | .      | .      |        |         |        |         |
| M3S5      |        |         |        |         |        |        |        |        | .      | .      |        |         |        |         |

**Soft bag filter section**

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| FTF1      | .      | .       | .      | .       | .      |        |        |        |        |        |        |         |        |         |
| FTF2      |        |         |        |         |        | .      | .      |        |        |        |        |         |        |         |
| FTF3      |        |         |        |         |        | .      |        |        |        |        |        |         |        |         |
| FTF4      |        |         |        |         |        |        | .      | .      | .      | .      | .      | .       | .      |         |
| FTF5      |        |         |        |         |        |        |        | .      | .      | .      | .      | .       | .      |         |

**2 row water coil**

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| B2R11     | .      | .       | .      | .       | .      |        |        |        |        |        |        |         |        |         |
| B2R21     |        |         |        |         |        | .      | .      |        |        |        |        |         |        |         |
| B2R31     |        |         |        |         |        | .      |        |        |        |        |        |         |        |         |
| B2R41     |        |         |        |         |        |        | .      | .      | .      | .      | .      | .       | .      |         |
| B2R51     |        |         |        |         |        |        |        | .      | .      | .      | .      | .       | .      |         |

**Section with post-heating coil**

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| PBE2      | .      | .       | .      | .       | .      |        |        |        |        |        |        |         |        |         |
| PBE24M    | .      | .       | .      | .       | .      |        |        |        |        |        |        |         |        |         |
| PBE24T    | .      | .       | .      | .       | .      |        |        |        |        |        |        |         |        |         |
| PBE3      |        |         |        |         |        | .      | .      |        |        |        |        |         |        |         |
| PBE34M    |        |         |        |         |        | .      | .      |        |        |        |        |         |        |         |
| PBE36T    |        |         |        |         |        | .      | .      |        |        |        |        |         |        |         |
| PBE4      |        |         |        |         |        |        | .      | .      |        |        |        |         |        |         |
| PBE44M    |        |         |        |         |        |        | .      | .      |        |        |        |         |        |         |
| PBE46T    |        |         |        |         |        |        | .      | .      |        |        |        |         |        |         |
| PBE5      |        |         |        |         |        |        |        | .      | .      | .      |        |         |        |         |
| PBE6      |        |         |        |         |        |        |        | .      | .      | .      | .      | .       | .      |         |
| PBE7      |        |         |        |         |        |        |        |        | .      | .      | .      | .       | .      |         |

**Silencer baffles module**

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| SSL1      | .      | .       | .      | .       | .      |        |        |        |        |        |        |         |        |         |
| SSL2      |        |         |        |         |        | .      |        |        |        |        |        |         |        |         |
| SSL3      |        |         |        |         |        |        | .      |        |        |        |        |         |        |         |
| SSL4      |        |         |        |         |        |        |        | .      | .      | .      | .      | .       | .      |         |
| SSL5      |        |         |        |         |        |        |        |        | .      | .      | .      | .       | .      |         |

**2 zone damper (70-30%)**

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| S2Z1      | .      | .       | .      | .       | .      |        |        |        |        |        |        |         |        |         |
| S2Z2      |        |         |        |         |        | .      | .      |        |        |        |        |         |        |         |
| S2Z3      |        |         |        |         |        |        | .      |        |        |        |        |         |        |         |
| S2Z4      |        |         |        |         |        |        |        | .      | .      | .      | .      | .       | .      |         |
| S2Z5      |        |         |        |         |        |        |        |        | .      | .      | .      | .       | .      |         |

**Recovery fan section with ISO COARSE 50% filter**

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| VRF1      | .      | .       | .      | .       | .      |        |        |        |        |        |        |         |        |         |
| VRF3      |        |         |        |         |        | .      | .      |        |        |        |        |         |        |         |
| VRF4      |        |         |        |         |        |        | .      |        |        |        |        |         |        |         |
| VRF5      |        |         |        |         |        |        |        | .      | .      | .      |        |         |        |         |
| VRF6      |        |         |        |         |        |        |        |        | .      | .      | .      | .       | .      |         |
| VRF7      |        |         |        |         |        |        |        |        |        | .      | .      | .       | .      |         |

**Plenum with multiple circular deliveries**

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| PMM1      | .      | .       | .      | .       | .      |        |        |        |        |        |        |         |        |         |
| PMM2      |        |         |        |         |        | .      | .      |        |        |        |        |         |        |         |
| PMM3      |        |         |        |         |        |        | .      |        |        |        |        |         |        |         |
| PMM4      |        |         |        |         |        |        |        | .      | .      | .      | .      | .       | .      |         |
| PMM5      |        |         |        |         |        |        |        |        | .      | .      | .      | .       | .      |         |

**Delivery plenum**

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| TPMC1     | .      | .       | .      | .       | .      |        |        |        |        |        |        |         |        |         |
| TPMC2     |        |         |        |         |        | .      | .      |        |        |        |        |         |        |         |
| TPMC3     |        |         |        |         |        |        | .      |        |        |        |        |         |        |         |
| TPMC4     |        |         |        |         |        |        |        | .      | .      | .      | .      | .       | .      |         |
| TPMC5     |        |         |        |         |        |        |        |        | .      | .      | .      | .       | .      |         |

**Closed delivery plenum**

| Accessory | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| PMC1      | .       | .      | .       | .      |        |        |        |        |        |        |         |        |         |
| PMC2      |         |        |         | .      | .      |        |        |        |        |        |         |        |         |
| PMC3      |         |        |         |        | .      | .      |        |        |        |        |         |        |         |
| PMC4      |         |        |         |        |        | .      | .      | .      | .      | .      | .       | .      |         |
| PMCS      |         |        |         |        |        |        | .      | .      | .      | .      | .       | .      | .       |

**Suction damper**

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| SAS1      | .      | .       | .      | .       |        |        |        |        |        |        |        |         |        |         |
| SAS2      |        |         |        |         | .      | .      |        |        |        |        |        |         |        |         |
| SAS3      |        |         |        |         |        | .      |        |        |        |        |        |         |        |         |
| SAS3      |        |         |        |         |        |        | .      | .      | .      | .      | .      | .       | .      |         |
| SASS      |        |         |        |         |        |        |        | .      | .      | .      | .      | .       | .      | .       |

**Outlet grille with adjustable louvers**

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| GMD1      | .      | .       | .      | .       |        |        |        |        |        |        |        |         |        |         |
| GMD2      |        |         |        |         | .      | .      |        |        |        |        |        |         |        |         |
| GMD3      |        |         |        |         |        | .      |        |        |        |        |        |         |        |         |
| GMD4      |        |         |        |         |        |        | .      | .      | .      | .      | .      | .       | .      |         |
| GMD5      |        |         |        |         |        |        |        | .      | .      | .      | .      | .       | .      | .       |

**Intake grids**

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| GAP1      | .      | .       | .      | .       |        |        |        |        |        |        |        |         |        |         |
| GAP2      |        |         |        |         | .      | .      |        |        |        |        |        |         |        |         |
| GAP3      |        |         |        |         |        | .      |        |        |        |        |        |         |        |         |
| GAP4      |        |         |        |         |        |        | .      | .      | .      | .      | .      | .       | .      |         |
| GAPS      |        |         |        |         |        |        |        | .      | .      | .      | .      | .       | .      | .       |

**Filter flange**

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| FPI11     | .      | .       | .      | .       |        |        |        |        |        |        |        |         |        |         |
| FPI12     |        |         |        |         | .      | .      |        |        |        |        |        |         |        |         |
| FPI13     |        |         |        |         |        | .      |        |        |        |        |        |         |        |         |
| FPI14     |        |         |        |         |        |        | .      | .      | .      | .      | .      | .       | .      |         |
| FPI15     |        |         |        |         |        |        |        | .      | .      | .      | .      | .       | .      | .       |

**Filter ISO COARSE 80%**

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| FPP1      | .      | .       | .      | .       |        |        |        |        |        |        |        |         |        |         |
| FPP2      |        |         |        |         | .      | .      |        |        |        |        |        |         |        |         |
| FPP3      |        |         |        |         |        | .      |        |        |        |        |        |         |        |         |
| FPP4      |        |         |        |         |        |        | .      | .      | .      | .      | .      | .       | .      |         |
| FPP5      |        |         |        |         |        |        |        | .      | .      | .      | .      | .       | .      | .       |

## PERFORMANCE SPECIFICATIONS

|   | TUN104 | TUN104P      | TUN106       | TUN106P      | TUN154       | TUN156       | TUN204       | TUN206       |
|---|--------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Cooling performance 7 °C / 12 °C(1)</b>  |        |              |              |              |              |              |              |              |
| Cooling capacity                            | kW     | 4,16         | 4,16         | 5,60         | 5,60         | 9,30         | 11,10        | 12,50        |
| Sensible cooling capacity                   | kW     | 3,30         | 3,30         | 4,00         | 4,00         | 6,60         | 7,60         | 8,70         |
| Latent cooling capacity                     | kW     | 0,86         | 0,86         | 1,60         | 1,60         | 2,70         | 3,50         | 3,80         |
| Water flow rate system side                 | l/h    | 715          | 715          | 963          | 963          | 1599         | 1910         | 2141         |
| Pressure drop system side                   | kPa    | 3            | 3            | 9            | 9            | 16           | 34           | 33           |
| <b>Heating performance 70 °C / 60 °C(2)</b> |        |              |              |              |              |              |              |              |
| Heating capacity                            | kW     | 10,20        | 10,20        | 11,30        | 11,30        | 19,00        | 21,10        | 24,90        |
| Water flow rate system side                 | l/h    | 880          | 880          | 975          | 975          | 1663         | 1849         | 2183         |
| Pressure drop system side                   | kPa    | 3            | 3            | 6            | 6            | 13           | 24           | 25           |
| <b>Heating performance 45 °C / 40 °C(3)</b> |        |              |              |              |              |              |              |              |
| Heating capacity                            | kW     | 5,07         | 5,07         | 5,62         | 5,62         | 9,45         | 10,50        | 12,39        |
| <b>Electric heating coil - (accessory)</b>  |        |              |              |              |              |              |              |              |
| Heating capacity                            | kW     | 4,00         | 6,00         | 4,00         | 6,00         | 8,00         | 8,00         | 10,00        |
| Stages                                      | no.    | 2            | 2            | 2            | 2            | 2            | 2            | 2            |
| Power supply                                |        | 400V~3 50Hz  |
| <b>Fan</b>                                  |        |              |              |              |              |              |              |              |
| Type  | type   | Centrifugal  |
| Fan motor                                   | type   | Asynchronous |
| Number                                      | no.    | 1            | 2            | 1            | 2            | 2            | 1            | 1            |
| Air flow rate                               | m³/h   | 900          | 900          | 900          | 900          | 1500         | 1500         | 2000         |
| High static pressure                        | Pa     | 110          | 330          | 110          | 330          | 150          | 150          | 170          |
| <b>Diametre hydraulic fittings</b>          |        |              |              |              |              |              |              |              |
| Main coil                                   | Ø      | 1"           | 1"           | 1"           | 1"           | 1"           | 1"           | 1"           |
| Secondary coil                              | Ø      | 1/2"         | 1/2"         | 1/2"         | 1/2"         | 1/2"         | 1/2"         | 1/2"         |
| Condensate discharge diameter               | mm     | 20,5         | 20,5         | 20,5         | 20,5         | 20,5         | 20,5         | 20,5         |
|   | TUN254 | TUN256       | TUN404       | TUN404P      | TUN406       | TUN406P      |              |              |
| <b>Cooling performance 7 °C / 12 °C(1)</b>  |        |              |              |              |              |              |              |              |
| Cooling capacity                            | kW     | 16,50        | 18,50        | 23,30        | 26,40        | 26,60        | 29,40        |              |
| Sensible cooling capacity                   | kW     | 11,40        | 12,70        | 16,30        | 18,20        | 18,50        | 20,10        |              |
| Latent cooling capacity                     | kW     | 5,10         | 5,80         | 7,00         | 8,20         | 8,10         | 9,30         |              |
| Water flow rate system side                 | l/h    | 2832         | 3184         | 4002         | 4536         | 4572         | 5051         |              |
| Pressure drop system side                   | kPa    | 33           | 20           | 60           | 37           | 56           | 28           |              |
| <b>Heating performance 70 °C / 60 °C(2)</b> |        |              |              |              |              |              |              |              |
| Heating capacity                            | kW     | 32,30        | 35,40        | 46,70        | 51,10        | 52,20        | 56,10        |              |
| Water flow rate system side                 | l/h    | 2831         | 3101         | 4089         | 4475         | 4573         | 4909         |              |
| Pressure drop system side                   | kPa    | 24           | 14           | 46           | 41           | 28           | 20           |              |
| <b>Heating performance 45 °C / 40 °C(3)</b> |        |              |              |              |              |              |              |              |
| Heating capacity                            | kW     | 16,07        | 17,61        | 23,23        | 25,42        | 25,97        | 27,91        |              |
| <b>Electric heating coil - (accessory)</b>  |        |              |              |              |              |              |              |              |
| Heating capacity                            | kW     | 12,00        | 12,00        | 20,00        | 20,00        | 20,00        | 20,00        |              |
| Stages                                      | no.    | 2            | 2            | 2            | 2            | 2            | 2            |              |
| Power supply                                |        | 400V~3 50Hz  |              |
| <b>Fan</b>                                  |        |              |              |              |              |              |              |              |
| Type  | type   | Centrifugal  |
| Fan motor                                   | type   | Asynchronous |
| Number                                      | no.    | 1            | 1            | 2            | 2            | 2            | 2            | 2            |
| Air flow rate                               | m³/h   | 2500         | 2500         | 4000         | 4000         | 4000         | 4000         | 4000         |
| High static pressure                        | Pa     | 150          | 150          | 120          | 220          | 120          | 220          | 220          |
| <b>Diametre hydraulic fittings</b>          |        |              |              |              |              |              |              |              |
| Main coil                                   | Ø      | 1"           | 1"           | 1"           | 1"           | 1"           | 1"           |              |
| Secondary coil                              | Ø      | 1/2"         | 1/2"         | 1/2"         | 1/2"         | 1/2"         | 1/2"         |              |
| Condensate discharge diameter               | mm     | 20,5         | 20,5         | 20,5         | 20,5         | 20,5         | 20,5         |              |

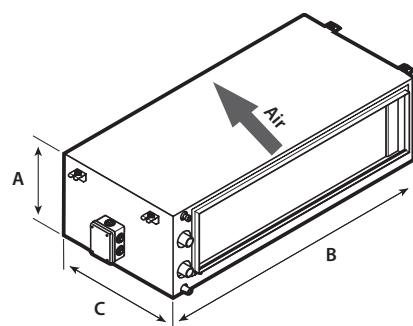
(1) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C;

(2) Room air temperature 10 °C d.b.; Water (in/out) 70 °C/60 °C;

(3) Room air temperature 10°C d.b.; Water (in/out) 45 °C/40 °C;

**Unit designed to operate with all recirculating air or maximum 10% of external air.**

## DIMENSIONS



|                               | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-------------------------------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| <b>Dimensions and weights</b> |        |         |        |         |        |        |        |        |        |        |        |         |        |         |
| A                             | mm     | 300     | 300    | 300     | 300    | 300    | 390    | 390    | 390    | 390    | 390    | 390     | 390    | 390     |
| B                             | mm     | 700     | 700    | 700     | 700    | 1050   | 1050   | 1050   | 1475   | 1475   | 1475   | 2100    | 1475   | 2100    |
| C                             | mm     | 700     | 700    | 700     | 700    | 700    | 850    | 850    | 850    | 850    | 850    | 1000    | 850    | 1000    |
| D                             | mm     | 82      | 82     | 82      | 82     | 82     | 82     | 82     | 82     | 82     | 82     | 82      | 82     | 82      |
| Net weight                    | kg     | 33      | 37     | 35      | 38     | 47     | 49     | 59     | 61     | 88     | 92     | 88      | 108    | 92      |

Aermec reserves the right to make any modifications deemed necessary.  
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