

# Duct Fan Coil Unit

1020m<sup>3</sup>/h-3400m<sup>3</sup>/h

## Application areas

- Any light commercial building
- Offices and shops
- Hotels

## Why this choice?

- Very high performances
- Easy and quick to install like a fan coil
- Many available configurations



## Characteristics

### Frame and structure

Panels and frame are made of galvanized steel, properly punched and punched for fixing both accessories and the unit itself.

### Heating coil

The coils are made of seamless tubes expanded into aluminum fins in continuous block. The connections have brass headers with female fittings and provided with easily accessible vent and drainage valve.

### Fan deck

The fan decks are composed of double suction centrifugal fans with aluminum impellers and 3-speed fan motors. Each fan motor assembly is dynamically balanced.

### Drip tray

The drip trays are made from sheet metal treated with polyester powder coating to ensure total resistance to atmospheric agents.

### Filter

The easily removable filter is made of filtering honeycomb polypropylene fabric and supported by an aluminum frame. The filter is installed on the units with plenum only.

## Electrical connection box

All electric wires are connected to enclosed electrical terminal block, situated on the same side of the water connections.

## Optional

3 speed switch  
 ON-BOARD THERMOSTART  
 Mechanical type for two pipe system exposed version use, working mode selection (OFF-Heating-Cooling), ventilation (HIGH-MED-LOW) and room temperature setting.  
 LCD thermostat with display

## Technical Data (Medium E.S.P. Type)

| Model                                 |      | 102WAM   | 136WAM | 170WAM | 204WAM | 238WAM | 272WAM | 306WAM | 340WAM |
|---------------------------------------|------|--|--------|--------|--------|--------|--------|--------|--------|
| Rated air volume<br>m <sup>3</sup> /h | H    | 1020   | 1360   | 1700   | 2040   | 2380   | 2720   | 3060   | 3400   |
|                                       | M    | 765  | 1020   | 1275   | 1530   | 1785   | 2040   | 2295   | 2550   |
|                                       | L    | 510  | 680    | 850    | 1020   | 1190   | 1360   | 1530   | 1700   |
| Rated cooling capacity kW             |      | 5.45   | 7.32   | 9.75   | 11.2   | 13.5   | 15.7   | 17.6   | 20.42  |
| Rated heating capacity kW             |      | 8.18   | 10.98  | 14.63  | 16.80  | 20.25  | 23.55  | 26.40  | 30.63  |
| Coil rows                             |      | 3  | 3      | 3      | 3      | 3      | 3      | 3      | 3      |
| Input power W                         |      | 231  | 273    | 326    | 405    | 460    | 520    | 737    | 805    |
| Noise dB(A)                           | H    | 47   | 49     | 50     | 52     | 54     | 56     | 57     | 59     |
|                                       | M    | 44   | 46     | 47     | 48     | 49     | 54     | 54     | 55     |
|                                       | L    | 41   | 42     | 43     | 44     | 46     | 47     | 49     | 51     |
| Water volume l/h                      |      | 937  | 1259   | 1677   | 1926   | 2322   | 2700   | 3027   | 3512   |
| Water pressure loss kPa               |      | 20   | 12.4   | 20     | 29     | 12.7   | 23.5   | 25     | 36     |
| Net weight kg                         |      | 30   | 31     | 34     | 38     | 40     | 55     | 56     | 59     |
| External static pressure Pa           |      | 100  | 100    | 100    | 100    | 100    | 100    | 100    | 100    |
| Motor                                 | Type | E class insulation, permanent capacitor, 3 speed fan       |        |        |        |        |        |        |        |
|                                       | Qty  | 1  | 1      | 1      | 1      | 1      | 2      | 2      | 2      |
| Fan                                   | Type | Double inlet, forward curve, multi blades, centrifugal fan |        |        |        |        |        |        |        |
|                                       | Type | 1  | 2      | 2      | 2      | 2      | 3      | 3      | 3      |
| Water connection pipe                 |      | 1" (DN25)  |        |        |        |        |        |        |        |
| Condensed water pipe                  |      | 3/4" (DN20)  |        |        |        |        |        |        |        |
| Max working pressure                  |      | 1.6MPa   |        |        |        |        |        |        |        |
| Power supply                          |      | AC 220V/50Hz   |        |        |        |        |        |        |        |

### Remarks:

1. The performance data is according to the test result of horizontal concealed type without plenum.
2. Cooling condition: inlet air DBT 27°C, WBT 19.5°C, inlet water temp. 7°C, temp. Difference 5°C.
3. Heating condition: inlet air DBT 21°C, inlet water temp. 60°C.

## Technical Data (High E.S.P. Type)

| Model                                 |      | 204WAH   | 238WAH | 272WAH | 306WAH | 340WAH |
|---------------------------------------|------|--|--------|--------|--------|--------|
| Rated air volume<br>m <sup>3</sup> /h | H    | 2040   | 2380   | 2720   | 3060   | 3400   |
|                                       | M    | 1530   | 1785   | 2040   | 2295   | 2550   |
|                                       | L    | 1020   | 1190   | 1360   | 1530   | 1700   |
| Rated cooling capacity kW             |      | 11.2   | 13.5   | 15.7   | 17.6   | 20.42  |
| Rated heating capacity kW             |      | 16.37  | 18.69  | 20.09  | 21.24  | 24.15  |
| Coil rows                             |      | 3  | 3      | 3      | 3      | 3      |
| Input power W                         |      | 405  | 460    | 520    | 737    | 805    |
| Noise dB(A)                           | H    | 52   | 54     | 56     | 57     | 59     |
|                                       | M    | 48   | 49     | 54     | 54     | 55     |
|                                       | L    | 44   | 46     | 47     | 49     | 51     |
| Water volume l/h                      |      | 1926   | 2322   | 2700   | 3027   | 3512   |
| Water pressure loss kPa               |      | 29   | 12.7   | 23.5   | 25     | 36     |
| Net weight kg                         |      | 38   | 40     | 55     | 56     | 59     |
| External static pressure Pa           |      | 150  | 150    | 150    | 150    | 150    |
| Motor                                 | Type | E class insulation, permanent capacitor, 3 speed fan       |        |        |        |        |
|                                       | Qty  | 1  | 1      | 2      | 2      | 2      |
| Fan                                   | Type | Double inlet, forward curve, multi blades, centrifugal fan |        |        |        |        |
|                                       | Type | 2  | 2      | 3      | 3      | 3      |
| Water connection pipe                 |      | 1" (DN25)  |        |        |        |        |
| Condensed water pipe                  |      | 3/4" (DN20)  |        |        |        |        |
| Max working pressure                  |      | 1.6MPa   |        |        |        |        |
| Power supply                          |      | AC 220V/50Hz   |        |        |        |        |

**Remarks:**

1. The performance data is according to the test result of horizontal concealed type without plenum.
2. Cooling condition: inlet air DBT 27°C, WBT 19.5°C, inlet water temp. 7°C, temp. Difference 5°C.
3. Heating condition: inlet air DBT 21°C, inlet water temp. 60°C.