



## Fan coil units with centrifugal fans AC-motors type VCE

Indoor fan coils units for cooling and/or heating with water.

### Brand

- Ventilclima

### Application

- For cooling and/or heating by water of hotels, shops, offices,...

### Composition

- Galvanized steel sheet (8/10mm) insulated in all parts in direct contact with the conditioned air
- Insulated condensate tray made of galvanised steel sheet
- Modern decorative cabinet, white RAL9010, made in hot-dip galvanized steel sheet pre-coated with PVC for high resistance to rust, corrosion, and grills made of ABS, standard light gray RAL 7035
- Centrifugal fans with statically and dynamically balanced aluminium turbines
- Standard with Single-phase asynchronous electric motor with overload cutout, 6 speeds (3 connected)
- The airfilter of polypropylene is enclosed (EU1) - other filters available upon request
- The heat exchanger are made of copper pipes expanded in aluminum fins, with female fittings and air vents, connection left or right following demand
- **Also available ECM model with EC motor**

### Options

- 2 or 4 pipes
- Vertical or horizontal
- Left or right waterconnection
- With or without cabinet
- Extra build-in thermostat
- Thermostat I-10, I-30 or I-50 integrated on the VCE units
- Available with EC motor on request

### Versions

- 12 sizes
- Vertical with casing, wall mounted
- Vertical with casing, floor mounted with intake grill
- Vertical with casing, floor mounted air intake in the front
- Horizontal with casing, mounting under the ceiling with bottom air intake by socle
- Horizontal with casing, mounting under the ceiling with air intake in the back
- Horizontal with casing, mounting under the ceiling with bottom air intake
- Vertical without casing, air intake from the bottom
- Vertical without casing, air outlet in the front
- Horizontal without casing, air intake from the back
- Horizontal with in and outlet plenum

### Accessories

- In and outlet plenum
- Extra driptray
- Feet
- Fresh air louver
- Infra red, wall or inside unit control
- 2 way or 3 way valves (mounted)
- On/off or modulating motor 230 or 24V on valve
- Condensate pump
- Thermostats for VCE with AC-motors: i-Basic 2, 3 i-Digit 0,1,2,3, I-60, I-70
- With the above thermostats you also need the **Power Chart SDP for 3-speed control** for the VCE models 8x,9x, 1xx, 11x,12x

### Order example

#### VCE-120-L/4p

Explanation

**VCE** = Centrifugal fan coil unit AC motor

**12** = size, see table

**0** = vertical - bottom air intake with cabinet, **1** = horizontal - bottom air intake with socle and cabinet, **2** = vertical - air intake bottom air supply vertical without cabinet, **3** = horizontal - air intake back without cabinet, **4** = horizontal - bottom air intake with cabinet, **5** = vertical - front air intake with cabinet, **7** = vertical - bottom air intake and horizontal air supply without cabinet, **8** = vertical - front air intake with socle and cabinet, **9** = horizontal - back air intake with cabinet

**L** = waterconnection Left, **R** = waterconnection Right

**2P** = 2pipes, **4P** = 4pipes

### Text for tender

Basic unit, EUROVENT certified, made of galvanized steel (prepared following Zendimir method), minimal plate 0.8 mm. The unit includes motor and fan, cool -and/or heating coil, filter, main condensate tray and electrical connection.

All parts in contact with conditioned air are insulated.

Total insulated main driptray with condensate connection.

Side panels provided of knock-out system for quick and easy connecting of accessories.

On the back provided of small opening for easy installation of the units.

Decorative cabinet has a modern design for all applications and is made in galvanized steel repainted with PVC for high resistance. Grills are made of ABS and control doors are made on the top of the cabinet. basic color is white, on demand other colors are possible. The cabinet is easy to mount or demount by a few screws.

The coils are made of copper tubes and alu fins, provided of a female connection (GAS) and an air nipple. Water connection are left or right and easy be changed on site.

The fans are depending of the size made of different quantity's of turbines. The total of the fan deck (motor and turbine) is dynamic balanced to avoid noise and are low in consumption.

De motors are totally closed, split-condensator type including an overheating safety. Monofasig 230 V / 50 Hz. 6 speeds, 3 speeds are connected or EC motor 0-10V. The motors have slidebearings.

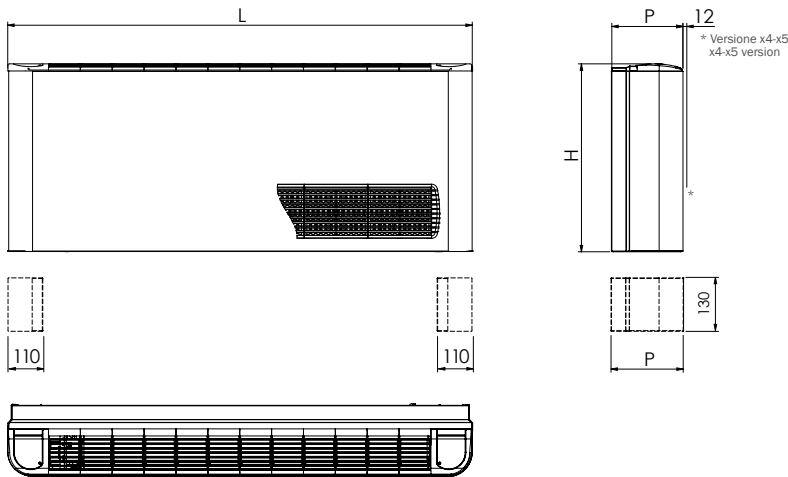
The standard filter of polypropylene with metal frame is EU1. Other filters are possible.

| Specifications             |                                 |                                  |                       |                      |                         |
|----------------------------|---------------------------------|----------------------------------|-----------------------|----------------------|-------------------------|
| POWER TABLE 2-PIPES SYSTEM |                                 |                                  |                       |                      |                         |
| Type                       | Cooling capacity<br>(7/12°C) kW | Heating capacity<br>(45/40°C) kW | Air flow rate<br>m³/h | Sound power<br>dB(A) | Sound pressure<br>dB(A) |
| VCE-1x                     | 0,77                            | 0,95                             | 183                   | 43                   | 34,4                    |
| VCE-2x                     | 1,25                            | 1,61                             | 304                   | 45                   | 36,4                    |
| VCE-3x                     | 2,13                            | 2,15                             | 417                   | 44                   | 35,4                    |
| VCE-4x                     | 2,13                            | 2,51                             | 403                   | 44                   | 35,4                    |
| VCE-5x                     | 3,05                            | 3,05                             | 589                   | 47                   | 38,4                    |
| VCE-6x                     | 3,07                            | 3,31                             | 577                   | 47                   | 38,4                    |
| VCE-7x                     | 3,45                            | 3,64                             | 573                   | 46                   | 37,4                    |
| VCE-8x                     | 5,46                            | 5,66                             | 1030                  | 66                   | 57,4                    |
| VCE-9x                     | 5,70                            | 5,75                             | 1018                  | 66                   | 57,4                    |
| VCE-10x                    | 7,63                            | 8,29                             | 1307                  | 58                   | 49,4                    |
| VCE-11x                    | 9,69                            | 10,69                            | 1912                  | 66                   | 57,4                    |
| VCE-12x                    | 10,15                           | 11,1                             | 2004                  | 66                   | 57,4                    |

Euroventconditions Cooling: 7/12°C 27°C d.b. 19°C w.b., Heating: 45/40°C 20°C, speed 4 of 6. Sound power level according to EN 16583:2015. Sound pressure level: 8,6 dB(A) lower than the sound power level for a room of 90 m³ with a reverberation time of 0,5 sec.

| POWER TABLE 4-PIPES SYSTEM |                                 |                                  |                       |                      |                         |
|----------------------------|---------------------------------|----------------------------------|-----------------------|----------------------|-------------------------|
| Type                       | Cooling capacity<br>(7/12°C) kW | Heating capacity<br>(65/55°C) kW | Air flow rate<br>m³/h | Sound power<br>dB(A) | Sound pressure<br>dB(A) |
| VCE-1x                     | 0,75                            | 0,97                             | 174                   | 43                   | 34,4                    |
| VCE-2x                     | 1,2                             | 1,67                             | 291                   | 47                   | 38,4                    |
| VCE-3x                     | 2,04                            | 2,41                             | 395                   | 44                   | 35,4                    |
| VCE-4x                     | 2,11                            | 2,34                             | 379                   | 45                   | 36,4                    |
| VCE-5x                     | 2,69                            | 3,08                             | 570                   | 46                   | 37,4                    |
| VCE-6x                     | 2,89                            | 3,31                             | 556                   | 48                   | 39,4                    |
| VCE-7x                     | 3,5                             | 3,8                              | 564                   | 47                   | 38,4                    |
| VCE-8x                     | 5,17                            | 5,48                             | 1010                  | 66                   | 57,4                    |
| VCE-9x                     | 5,37                            | 5,69                             | 994                   | 66                   | 57,4                    |
| VCE-10x                    | 7,3                             | 7,24                             | 1230                  | 58                   | 49,4                    |
| VCE-11x                    | 8,83                            | 8,92                             | 1911                  | 66                   | 57,4                    |
| VCE-12x                    | 9,76                            | 10,07                            | 1902                  | 66                   | 57,4                    |

Euroventconditions Cooling: 7/12°C 27°C d.b. 19°C w.b., Heating: 45/40°C 20°C, speed 4 of 6. Sound power level according to EN 16583:2015. Sound pressure level: 8,6 dB(A) lower than the sound power level for a room of 90 m³ with a reverberation time of 0,5 sec.



|     |                 | Dimensions |    |     |    |    |    |     |    |      |    |    |      |     |     |      |  |      |  |
|-----|-----------------|------------|----|-----|----|----|----|-----|----|------|----|----|------|-----|-----|------|--|------|--|
| VCE | With cabinet    | L          | mm | 10  | 20 | 30 | 40 | 50  | 60 | 70   | 80 | 90 | 100  | 110 | 120 |      |  |      |  |
|     |                 | H          | mm | 480 |    |    |    |     |    | 585  |    |    | 605  |     |     |      |  |      |  |
| P   | mm              | 225        |    |     |    |    |    | 257 |    |      |    |    |      |     |     |      |  |      |  |
| VCE | Without cabinet | L          | mm | 10  | 20 | 30 | 40 | 50  | 60 | 70   | 80 | 90 | 100  | 110 | 120 |      |  |      |  |
|     |                 | H          | mm | 820 |    |    |    |     |    | 1020 |    |    | 1220 |     |     | 1385 |  | 1685 |  |
|     |                 | P          | mm | 460 |    |    |    |     |    | 220  |    |    | 565  |     |     | 585  |  | 252  |  |