

# Wall mounted fan coils with EC motor

## IDROWALL-I IDROWALL-I/V3

Cooling capacity 2.2-4.3 kW  
Heating capacity 2.4-5.1 kW

**Consumption reduced by 50% compared to the traditional motor**

**New version without on board valve**

**V3 version with 3-way ON/OFF valve on board**

**Integrated master/slave function and serial interface**

**Remote control included**

**Tax incentives\***



Features



## Wall mounted fan coils.

### Construction features

- Heat exchanger: finned coil.
  - Fan: tangential with Inverter Brushless EC motor with continuous speed adjustment.
  - Baffle: motorised with different positions.
  - Structure: made of heat-resistant ABS polymer, RAL 9003 colour, complete with a regenerable polypropylene filter, adjustable fins and a natural condensate drain pan.
  - Control: microprocessor electronic control.
- Adjustment functions: full auto (IDROWALL-I/V3), cool, dry, fan, autofan, heat.  
Comfort functions: orienting, swing, timer, sleep, hot start, memory.  
Remote control supplied as standard.  
Resident RS485 serial interface.
- >IDROWALL-I - Unit complete with backlit temperature display; digital output for mandatory ON/OFF valve control (not supplied) to be installed upstream of the unit; master-slave management of up to 10 units in total, with KPI panel.  
>IDROWALL-I/V3 - Unit fitted with 3-way ON/OFF diverter valve, fitted on board; master-slave management of up to 64 units in total; centralised management with KWPCI panel of up to 64 units in total; SYS-TO compatible.

### Separately supplied accessories

- KVAM - Wall mounted recessed box.
- >IDROWALL-I/V3
- KV2V - 2-way ON/OFF valve accessory. Assembled on board by the installer.
- K2TF - Accessory for valve use externally to the unit. Assembled by the installer.

### Controls supplied separately

- >IDROWALL-I
- KPI - Electronic panel flush with display semi-recessed in the wall.
- >IDROWALL-I/V3
- KWPI - Electronic panel for wall mounting installation.
  - KWPCI - Centralised electronic panel for wall mounting installation Power supply V230-1-50.

## Technical data

|                                       |     |         |   | IDROWALL-I | IDROWALL-I | IDROWALL-I | IDROWALL-I | IDROWALL-I/V3 | IDROWALL-I/V3 | IDROWALL-I/V3 |
|---------------------------------------|-----|---------|---|------------|------------|------------|------------|---------------|---------------|---------------|
|                                       |     |         |   | 20         | 25         | 35         | 45         | 21            | 31            | 41            |
| ❶ Total cooling capacity<br>[EN1397]  | MAX | kW      | E | 2,20       | 2,70       | 3,60       | 4,30       | 1,99          | 2,95          | 3,5           |
|                                       | MED | kW      | E | 1,55       | 1,90       | 2,50       | 3,00       | 1,63          | 2,14          | 2,45          |
|                                       | MIN | kW      | E | 1,25       | 1,35       | 1,90       | 2,30       | 1,32          | 1,89          | 1,89          |
| ❷ Heating capacity (45°C)<br>[EN1397] | MAX | kW      | E | 2,4        | 2,9        | 3,9        | 4,7        | 2,68          | 4,2           | 4,45          |
|                                       | MED | kW      | E | 1,7        | 2,2        | 2,7        | 3,4        | 2,02          | 3,04          | 3,63          |
|                                       | MIN | kW      | E | 1,4        | 1,55       | 2          | 2,5        | 1,45          | 2,61          | 2,61          |
| ❸ Heating capacity (50°C)             | MAX | kW      | E | 2,86       | 3,48       | 4,77       | 5,82       | 3,05          | 4,78          | 5,14          |
|                                       | MED | kW      | E | 1,93       | 2,38       | 3,14       | 3,99       | 2,34          | 3,46          | 4,11          |
|                                       | MIN | kW      | E | 1,68       | 1,65       | 2,23       | 2,79       | 1,72          | 2,98          | 2,98          |
| Air flow speed                        | MAX | m³/h    |   | 340        | 510        | 680        | 850        | 556           | 722           | 814           |
|                                       | MED | m³/h    |   | 255        | 382        | 510        | 637        | 413           | 473           | 581           |
|                                       | MIN | m³/h    |   | 170        | 255        | 340        | 425        | 295           | 396           | 396           |
| Sound power                           | MAX | dB(A)   | E | 48         | 52         | 59         | 62         | 52            | 55            | 59            |
|                                       | MED | dB(A)   | E | 39         | 44         | 51         | 53         | 43            | 46            | 51            |
|                                       | MIN | dB(A)   | E | 37         | 38         | 43         | 45         | 34            | 42            | 42            |
| ❹ Sound pressure                      | MAX | dB(A)   |   | 39         | 43         | 50         | 53         | 43            | 46            | 50            |
|                                       | MED | dB(A)   |   | 30         | 35         | 42         | 44         | 34            | 37            | 42            |
|                                       | MIN | dB(A)   |   | 28         | 29         | 34         | 36         | 25            | 33            | 33            |
| Absorbed power                        | MAX | W       | E | 12         | 18         | 29         | 43         | 22            | 27            | 38            |
|                                       | MED | W       | E | 9          | 11         | 16         | 20         | 14            | 15            | 19            |
|                                       | MIN | W       | E | 8          | 8          | 11         | 12         | 11            | 12            | 12            |
| Electrical supply                     |     | V-ph-Hz |   | 230-1-50   | 230-1-50   | 230-1-50   | 230-1-50   | 230-1-50      | 230-1-50      | 230-1-50      |
| <b>DIMENSIONS AND WEIGHTS</b>         |     |         |   | <b>20</b>  | <b>25</b>  | <b>35</b>  | <b>45</b>  | <b>21</b>     | <b>31</b>     | <b>41</b>     |
| L – Width                             |     | mm      |   | 845        | 845        | 845        | 970        | 795           | 990           | 990           |
| H – Height                            |     | mm      |   | 289        | 289        | 289        | 300        | 290           | 290           | 290           |
| P – Depth                             |     | mm      |   | 209        | 209        | 209        | 224        | 230           | 230           | 230           |
| Weight                                |     | kg      |   | 10,5       | 10,5       | 10,5       | 12,5       | 9,3           | 11,6          | 11,6          |

Data at the following conditions:

- ❶ Air: 27°C D.B.; 19°C W.B. – Water: 7/12°C.
- ❷ Air: 20°C – Water: 45/40°C.
- ❸ Air: 20°C – Water: 50°C, flow rate as in cooling.
- ❹ For room volume equal to 100 m³ and reverberation time = 0.5 sec.
- E Eurovent certificate performance.
- ❺ Air: 20°C – Water: 70/60°C.
- ❻ For room volume equal to 100 m³ and reverberation time = 0.5 sec.
- E Eurovent certificate performance.



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