

## FCW

## Fan coils wall-mount installation

- Versions with internal 2 or 3-way valve
- Compact dimensions



### DESCRIPTION

Fan coil model for wall-mount installations, whose elegance and reduced dimensions make it aesthetically pleasing; this terminal is thus suitable for applications in residential or light commercial sectors. To respond to the various system requirements, the product is configurable and available with or without (2- or 3-way) valve, as well as with or without control board, which ensures compatibility with various system requirements.

Fan coils without control board must be necessarily combined with an external control device.

### VERSIONS

- 2V** Internal 2-way valve and microprocessor control
- 2VN** Internal 2-way valve without microprocessor control
- 3V** Internal 3-way valve and microprocessor control
- 3VN** Internal 3-way valve without microprocessor control
- VL** Without internal valve but with microprocessor control
- VLN** Without internal valve and microprocessor control

### FEATURES

#### Case

- Aesthetically styled with flat panel:
- Microprocessor control

- Air flow louvered fins with horizontal adjustment facility
- Colors pure white pantone GRIS 1C RAL 9010.

#### Ventilation group

Consisting of a tangential fan, especially quiet and directly coupled to the motor shaft.

Three-speed cross flow fan.

#### Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas hydraulic connections and is fitted with air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

#### Air filter

Fan coils are fitted with air filters easy to remove and clean.

#### Control

The versions with microprocessor control have:

- Timer for programming switch-off or switch-on (TLW2 and PFW2)
- Program for operation in automatic, cooling, heating, ventilation and air ionising mode (TLW2 and PFW2)
- Night time Well-being Program (TLW2)
- Automatic season change (TLW2 and PFW2)
- Automatic re-start after power cut.

ACCESSORIES

For models with control board installed

**FCW\_2V, 3V, VL** it is mandatory to select among the user interfaces designed for the FCW series (TLW2 or PFW2)

**PFW2:** Wired panel to control all the functions of the unit. It is supplied separately and can control only one unit. The panel must be installed on the wall and connected to the fan coil with the supplied cable, 7.5 meters long.

**TLW2:** Infrared remote control with liquid crystal display for controlling all unit functions. The remote control is delivered separately from the fan coil; with a single remote control it is possible to control more than one fan coil. The remote control is equipped with a support that allows you to hang it on the wall, from which it can be operated without having to be removed.

TLW2



PFW2



ACCESSORIES COMPATIBILITY

VMF system

Control panels and dedicated accessories

| Model    | Ver      | 22 | 32 | 42 | 52 |
|----------|----------|----|----|----|----|
| PFW2     | 2V,3V,VL | •  | •  | •  | •  |
| TLW2 (1) | 2V,3V,VL | •  | •  | •  | •  |

(1) Accessory is required for operating the fan coil as an alternative to the wired remote control panel PFW2. mandatory accessory for versions with controller FCW\_2V, FCW\_3V, FCW\_VL.

For models without control board installed

**FCW\_2VN, 3VN, VLN** a user interface must be mounted outside the fan coil, using either a visible or a recessed wall-mount installation.

To make the selection please refer to the "control panels" or "VMF system shett" where you will find comprehensive information on this topic.

**VMF-E0X:** Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

**VMF-E19:** Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

**VMF-E4DX:** Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

**VMF-E4X:** Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

## PERFORMANCE SPECIFICATIONS

### 2-pipe

|                                       |       | FCW22VL      |      |      | FCW32VL      |      |      | FCW42VL      |      |      | FCW52VL      |       |       | FCW222V      |       |       | FCW223V      |       |       |
|---------------------------------------|-------|--------------|------|------|--------------|------|------|--------------|------|------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|
|                                       |       | 1            | 2    | 3    | 1            | 2    | 3    | 1            | 2    | 3    | 1            | 2     | 3     | 1            | 2     | 3     | 1            | 2     | 3     |
|                                       |       | L            | M    | H    | L            | M    | H    | L            | M    | H    | L            | M     | H     | L            | M     | H     | L            | M     | H     |
| Heating performance 70 °C / 60 °C (1) |       |              |      |      |              |      |      |              |      |      |              |       |       |              |       |       |              |       |       |
| Heating capacity                      | kW    | 2,85         | 3,66 | 4,29 | 3,73         | 4,51 | 5,24 | 6,44         | 7,84 | 8,56 | 8,20         | 13,06 | 15,28 | 2,35         | 3,02  | 4,03  | 2,35         | 3,02  | 4,03  |
| Water flow rate system side           | l/h   | 250          | 321  | 377  | 328          | 396  | 460  | 565          | 688  | 751  | 718          | 1145  | 1339  | 206          | 265   | 354   | 206          | 265   | 354   |
| Pressure drop system side             | kPa   | 4            | 6    | 9    | 9            | 12   | 16   | 16           | 22   | 26   | 10           | 23    | 30    | 9            | 14    | 24    | 9            | 14    | 24    |
| Heating performance 45 °C / 40 °C (2) |       |              |      |      |              |      |      |              |      |      |              |       |       |              |       |       |              |       |       |
| Heating capacity                      | kW    | 1,42         | 1,82 | 2,14 | 1,85         | 2,24 | 2,61 | 3,21         | 3,90 | 4,26 | 4,10         | 6,50  | 7,60  | 1,17         | 1,50  | 2,00  | 1,17         | 1,50  | 2,00  |
| Water flow rate system side           | l/h   | 246          | 316  | 371  | 322          | 390  | 453  | 556          | 677  | 739  | 712          | 1129  | 1320  | 203          | 261   | 348   | 203          | 261   | 348   |
| Pressure drop system side             | kPa   | 4            | 6    | 8    | 9            | 12   | 16   | 15           | 22   | 25   | 10           | 22    | 29    | 9            | 14    | 24    | 9            | 14    | 24    |
| Cooling performance 7 °C / 12 °C (3)  |       |              |      |      |              |      |      |              |      |      |              |       |       |              |       |       |              |       |       |
| Cooling capacity                      | kW    | 1,37         | 1,74 | 2,05 | 1,78         | 2,15 | 2,50 | 3,07         | 3,74 | 4,08 | 4,40         | 6,50  | 7,45  | 1,10         | 1,45  | 1,90  | 1,10         | 1,45  | 1,90  |
| Sensible cooling capacity             | kW    | 1,16         | 1,47 | 1,73 | 1,51         | 1,82 | 2,04 | 2,59         | 3,10 | 3,47 | 3,30         | 5,05  | 5,80  | 0,92         | 1,20  | 1,55  | 0,92         | 1,20  | 1,55  |
| Water flow rate system side           | l/h   | 236          | 299  | 353  | 306          | 370  | 430  | 528          | 643  | 702  | 755          | 1115  | 1278  | 189          | 249   | 327   | 189          | 249   | 327   |
| Pressure drop system side             | kPa   | 5            | 7    | 9    | 8            | 11   | 15   | 15           | 21   | 26   | 12           | 24    | 30    | 9            | 14    | 23    | 9            | 14    | 23    |
| Fan                                   |       |              |      |      |              |      |      |              |      |      |              |       |       |              |       |       |              |       |       |
| Type                                  | type  | Tangential   |      |      | Tangential   |      |      | Tangential   |      |      | Tangential   |       |       | Tangential   |       |       | Tangential   |       |       |
| Fan motor                             | type  | Asynchronous |      |      | Asynchronous |      |      | Asynchronous |      |      | Asynchronous |       |       | Asynchronous |       |       | Asynchronous |       |       |
| Number                                | no.   | 1            |      |      | 1            |      |      | 1            |      |      | 1            |       |       | 1            |       |       | 1            |       |       |
| Air flow rate                         | m³/h  | 280          | 340  | 389  | 330          | 400  | 446  | 476          | 602  | 684  | 592          | 945   | 1179  | 270          | 330   | 380   | 270          | 330   | 380   |
| Input power                           | W     | 23           | 24   | 27   | 22           | 23   | 27   | 31           | 41   | 48   | 38           | 55    | 75    | 23           | 24    | 27    | 23           | 24    | 27    |
| Fan coil sound data (4)               |       |              |      |      |              |      |      |              |      |      |              |       |       |              |       |       |              |       |       |
| Sound power level                     | dB(A) | 42,0         | 48,0 | 53,0 | 42,0         | 48,0 | 53,0 | 44,0         | 49,0 | 54,0 | 44,0         | 54,0  | 60,0  | 42,0         | 48,0  | 53,0  | 42,0         | 48,0  | 53,0  |
| Sound pressure                        | dB(A) | 34,0         | 39,5 | 44,5 | 34,0         | 39,5 | 44,5 | 35,5         | 40,5 | 45,5 | 35,5         | 45,5  | 51,5  | 34,0         | 39,5  | 44,5  | 34,0         | 39,5  | 44,5  |
| Diametre hydraulic ýttings            |       |              |      |      |              |      |      |              |      |      |              |       |       |              |       |       |              |       |       |
| Main coil                             | Ø     | 1/2"         |      |      | 1/2"         |      |      | 1/2"         |      |      | 1/2"         |       |       | 1/2"         |       |       | 1/2"         |       |       |
| Power supply                          |       |              |      |      |              |      |      |              |      |      |              |       |       |              |       |       |              |       |       |
| Power supply                          |       | 230V~50Hz    |      |      | 230V~50Hz    |      |      | 230V~50Hz    |      |      | 230V~50Hz    |       |       | 230V~50Hz    |       |       | 230V~50Hz    |       |       |
|                                       |       | FCW322V      |      |      | FCW323V      |      |      | FCW422V      |      |      | FCW423V      |       |       | FCW522V      |       |       | FCW523V      |       |       |
|                                       |       | 1            | 2    | 3    | 1            | 2    | 3    | 1            | 2    | 3    | 1            | 2     | 3     | 1            | 2     | 3     | 1            | 2     | 3     |
|                                       |       | L            | M    | H    | L            | M    | H    | L            | M    | H    | L            | M     | H     | L            | M     | H     | L            | M     | H     |
| Heating performance 70 °C / 60 °C (1) |       |              |      |      |              |      |      |              |      |      |              |       |       |              |       |       |              |       |       |
| Heating capacity                      | kW    | 3,25         | 4,36 | 5,03 | 3,25         | 4,36 | 5,03 | 6,29         | 7,23 | 7,97 | 6,29         | 7,23  | 7,97  | 8,04         | 11,80 | 14,00 | 8,04         | 11,80 | 14,00 |
| Water flow rate system side           | l/h   | 286          | 383  | 442  | 286          | 383  | 442  | 552          | 635  | 699  | 552          | 635   | 699   | 704          | 1034  | 1227  | 704          | 1034  | 1227  |
| Pressure drop system side             | kPa   | 13           | 22   | 29   | 13           | 22   | 29   | 21           | 27   | 32   | 21           | 27    | 32    | 10           | 21    | 28    | 10           | 21    | 28    |
| Heating performance 45 °C / 40 °C (2) |       |              |      |      |              |      |      |              |      |      |              |       |       |              |       |       |              |       |       |
| Heating capacity                      | kW    | 1,62         | 2,17 | 2,50 | 1,62         | 2,17 | 2,50 | 3,13         | 3,60 | 3,96 | 3,13         | 3,60  | 3,96  | 4,00         | 5,90  | 7,00  | 4,00         | 5,90  | 7,00  |
| Water flow rate system side           | l/h   | 281          | 377  | 434  | 281          | 377  | 434  | 543          | 624  | 688  | 543          | 624   | 688   | 695          | 1025  | 1216  | 695          | 1025  | 1216  |
| Pressure drop system side             | kPa   | 13           | 22   | 29   | 13           | 22   | 29   | 20           | 26   | 31   | 20           | 26    | 31    | 11           | 22    | 30    | 11           | 22    | 30    |
| Cooling performance 7 °C / 12 °C (3)  |       |              |      |      |              |      |      |              |      |      |              |       |       |              |       |       |              |       |       |
| Cooling capacity                      | kW    | 1,55         | 2,08 | 2,40 | 1,55         | 2,08 | 2,40 | 3,00         | 3,45 | 3,80 | 3,00         | 3,45  | 3,80  | 4,00         | 6,00  | 7,00  | 4,00         | 6,00  | 7,00  |
| Sensible cooling capacity             | kW    | 1,28         | 1,68 | 1,97 | 1,28         | 1,68 | 1,97 | 2,01         | 2,50 | 2,85 | 2,01         | 2,50  | 2,85  | 2,85         | 4,50  | 5,30  | 2,85         | 4,50  | 5,30  |
| Water flow rate system side           | l/h   | 267          | 358  | 413  | 267          | 358  | 413  | 516          | 593  | 654  | 516          | 593   | 654   | 686          | 1030  | 1201  | 686          | 1030  | 1201  |
| Pressure drop system side             | kPa   | 13           | 22   | 29   | 13           | 22   | 29   | 21           | 27   | 32   | 21           | 27    | 32    | 11           | 23    | 30    | 11           | 23    | 30    |
| Fan                                   |       |              |      |      |              |      |      |              |      |      |              |       |       |              |       |       |              |       |       |
| Type                                  | type  | Tangential   |      |      | Tangential   |      |      | Tangential   |      |      | Tangential   |       |       | Tangential   |       |       | Tangential   |       |       |
| Fan motor                             | type  | Asynchronous |      |      | Asynchronous |      |      | Asynchronous |      |      | Asynchronous |       |       | Asynchronous |       |       | Asynchronous |       |       |
| Number                                | no.   | 1            |      |      | 1            |      |      | 1            |      |      | 1            |       |       | 1            |       |       | 1            |       |       |
| Air flow rate                         | m³/h  | 320          | 390  | 440  | 320          | 390  | 440  | 370          | 470  | 540  | 370          | 470   | 540   | 535          | 859   | 1082  | 535          | 859   | 1082  |
| Input power                           | W     | 22           | 23   | 27   | 22           | 23   | 27   | 31           | 41   | 48   | 31           | 41    | 48    | 38           | 55    | 75    | 38           | 55    | 75    |
| Fan coil sound data (4)               |       |              |      |      |              |      |      |              |      |      |              |       |       |              |       |       |              |       |       |
| Sound power level                     | dB(A) | 42,0         | 48,0 | 53,0 | 42,0         | 48,0 | 53,0 | 44,0         | 49,0 | 54,0 | 44,0         | 49,0  | 54,0  | 44,0         | 54,0  | 60,0  | 44,0         | 54,0  | 60,0  |
| Sound pressure                        | dB(A) | 34,0         | 39,5 | 44,5 | 34,0         | 39,5 | 44,5 | 35,5         | 40,5 | 45,5 | 35,5         | 40,5  | 45,5  | 35,5         | 45,5  | 51,5  | 35,5         | 45,5  | 51,5  |
| Diametre hydraulic ýttings            |       |              |      |      |              |      |      |              |      |      |              |       |       |              |       |       |              |       |       |
| Main coil                             | Ø     | 1/2"         |      |      | 1/2"         |      |      | 1/2"         |      |      | 1/2"         |       |       | 1/2"         |       |       | 1/2"         |       |       |
| Power supply                          |       |              |      |      |              |      |      |              |      |      |              |       |       |              |       |       |              |       |       |
| Power supply                          |       | 230V~50Hz    |      |      | 230V~50Hz    |      |      | 230V~50Hz    |      |      | 230V~50Hz    |       |       | 230V~50Hz    |       |       | 230V~50Hz    |       |       |

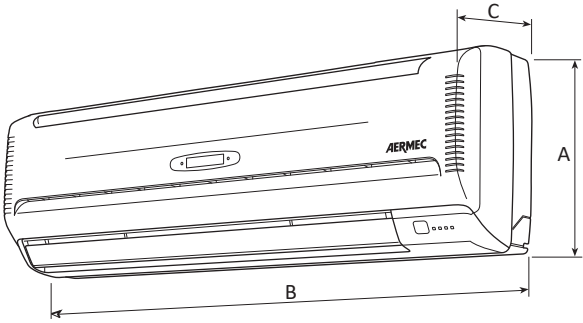
(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

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

(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



|                        |    | FCW22VL | FCW32VL | FCW42VL | FCW52VL | FCW222V | FCW223V |
|------------------------|----|---------|---------|---------|---------|---------|---------|
| Dimensions and weights |    |         |         |         |         |         |         |
| A                      | mm | 298     | 305     | 360     | 365     | 298     | 298     |
| B                      | mm | 880     | 990     | 1170    | 1450    | 880     | 880     |
| C                      | mm | 205     | 210     | 220     | 230     | 205     | 205     |
| Empty weight           | kg | 9       | 10      | 19      | 28      | 9       | 9       |

|                        |    | FCW322V | FCW323V | FCW422V | FCW423V | FCW522V | FCW523V |
|------------------------|----|---------|---------|---------|---------|---------|---------|
| Dimensions and weights |    |         |         |         |         |         |         |
| A                      | mm | 305     | 305     | 360     | 360     | 365     | 365     |
| B                      | mm | 990     | 990     | 1170    | 1170    | 1450    | 1450    |
| C                      | mm | 210     | 210     | 220     | 220     | 230     | 230     |
| Empty weight           | kg | 10      | 10      | 19      | 19      | 28      | 28      |

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responsibility or liability for errors or omissions.

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## FCWI

## Fan coils wall-mount installation



- Versions with internal 2 or 3-way valve
- Electric saving equal to 50% with respect to a fan coil with 3-speed motor
- Total comfort: reduced temperature and humidity oscillations
- Fully silent operation



### DESCRIPTION

Fan coil model for wall-mount installations, whose elegance and reduced dimensions make it aesthetically pleasing; this terminal is thus suitable for applications in residential or light commercial sectors. The product is configurable and available with or without (2- or 3-way) valve which ensures compatibility with various system requirements.

### VERSIONS

- 2V** Internal 2-way valve and microprocessor control
- 3V** Internal 3-way valve and microprocessor control
- VL** Without internal valve but with microprocessor control

### FEATURES

#### Case

Aesthetically styled with flat panel:

- Air flow louvered fins with horizontal adjustment facility
- Motorised deflector louvers that can be activated by remote control TLW3 for vertical orientation of the outlet air with steps fixed positions and continuous oscillation
- Colors pure white pantone GRIS 1C RAL 9010.

#### Ventilation group

Consisting of a tangential fan, especially quiet and directly coupled to the motor shaft.

Brushless motor with continuous speed variation 0-100%.

Inverter motor allows precise adaptation to the real indoor environment requirements without temperature oscillations.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

#### Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas hydraulic connections and is fitted with air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

#### Air filter

Fan coils are fitted with air filters easy to remove and clean.

#### Control

The versions with microprocessor control have:

- Timer for programming switch-off or switch-on (TLW3/ PFW3)
- Program for operation in automatic, cooling, heating, ventilation and air ionising mode (TLW3/ PFW3)
- Night time Well-being Program (TLW3/ PFW3)
- Automatic season change (TLW3/ PFW3)
- Automatic re-start after power cut.
- Option of contact on the terminal board which enables to obtain a signal (230V, max 1A) with which to control the system pump.

## ACCESSORIES

For models with control board installed

**FCWI\_2V, 3V, VL** it is mandatory to select among the user interfaces designed for the FCWI series (TLW3 o PFW3)

**PFW3:** This accessory is essential for fan coil operation (as an alternative to TLW3). The PFW3 wired panel is supplied separately from the fan coil. It is used to set the main device operating parameters, and is essential for setting the Modbus address of the unit (handy only if you want to command the unit via the RS-485 port).

**TLW3:** Mandatory accessory. Infrared remote control with liquid crystal display for controlling all unit functions. The remote control is delivered separately from the fan coil; with a single remote control it is possible to control more than one fan coil. The remote control is equipped with

a support that allows you to hang it on the wall, from which it can be operated without having to be removed.

**VMF-485LINK:** Expansion to interface the unit with the VMF communication protocol, making it possible to manage it from the VMF-E5 or VMF-E6 supervisors.

### TLW3



### PFW3



## ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

| Model    | Ver      | 22 | 32 | 42 | 52 |
|----------|----------|----|----|----|----|
| PFW3 (1) | 2V,3V,VL | •  | •  | •  | •  |
| TLW3 (1) | 2V,3V,VL | •  | •  | •  | •  |

(1) Mandatory accessory.

| Model       | Ver      | 22 | 32 | 42 | 52 |
|-------------|----------|----|----|----|----|
| VMF-485LINK | 2V,3V,VL | •  | •  | •  | •  |

## PERFORMANCE SPECIFICATIONS

### 2-pipe

|  | FCWI22VL |   |   | FCWI32VL |   |   | FCWI42VL |   |   | FCWI52VL |   |   | FCWI222V |   |   | FCWI223V |   |   |
|--|----------|---|---|----------|---|---|----------|---|---|----------|---|---|----------|---|---|----------|---|---|
|  | 1        | 2 | 3 | 1        | 2 | 3 | 1        | 2 | 3 | 1        | 2 | 3 | 1        | 2 | 3 | 1        | 2 | 3 |
|  | L        | M | H | L        | M | H | L        | M | H | L        | M | H | L        | M | H | L        | M | H |

### Heating performance 70 °C / 60 °C (1)

|                             |     |      |      |      |      |      |      |      |      |      |      |       |       |      |      |      |      |      |      |
|-----------------------------|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|------|------|------|
| Heating capacity            | kW  | 2,85 | 3,66 | 4,29 | 3,73 | 4,51 | 5,24 | 6,44 | 7,84 | 8,56 | 8,20 | 13,06 | 15,28 | 2,35 | 3,02 | 4,03 | 2,35 | 3,02 | 4,03 |
| Water flow rate system side | l/h | 250  | 321  | 377  | 328  | 396  | 460  | 565  | 688  | 751  | 718  | 1145  | 1339  | 206  | 265  | 354  | 206  | 265  | 354  |
| Pressure drop system side   | kPa | 4    | 6    | 9    | 9    | 12   | 16   | 16   | 22   | 26   | 10   | 23    | 30    | 9    | 14   | 24   | 9    | 14   | 24   |

### Heating performance 45 °C / 40 °C (2)

|                             |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Heating capacity            | kW  | 1,42 | 1,82 | 2,14 | 1,85 | 2,24 | 2,61 | 3,21 | 3,90 | 4,26 | 4,10 | 6,50 | 7,60 | 1,17 | 1,50 | 2,00 | 1,17 | 1,50 | 2,00 |
| Water flow rate system side | l/h | 246  | 316  | 371  | 322  | 390  | 453  | 556  | 677  | 739  | 712  | 1129 | 1320 | 203  | 261  | 348  | 203  | 261  | 348  |
| Pressure drop system side   | kPa | 4    | 6    | 8    | 9    | 12   | 16   | 15   | 22   | 25   | 10   | 22   | 29   | 9    | 14   | 24   | 9    | 14   | 24   |

### Cooling performance 7 °C / 12 °C (3)

|                             |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Cooling capacity            | kW  | 1,37 | 1,74 | 2,05 | 1,78 | 2,15 | 2,50 | 3,07 | 3,74 | 4,08 | 4,40 | 6,50 | 7,45 | 1,10 | 1,45 | 1,90 | 1,10 | 1,45 | 1,90 |
| Sensible cooling capacity   | kW  | 1,16 | 1,47 | 1,73 | 1,51 | 1,82 | 2,04 | 2,59 | 3,10 | 3,47 | 3,30 | 5,05 | 5,80 | 0,92 | 1,20 | 1,55 | 0,92 | 1,20 | 1,55 |
| Water flow rate system side | l/h | 236  | 299  | 353  | 306  | 370  | 430  | 528  | 643  | 702  | 755  | 1115 | 1278 | 189  | 249  | 327  | 189  | 249  | 327  |
| Pressure drop system side   | kPa | 5    | 7    | 9    | 8    | 11   | 15   | 15   | 21   | 26   | 12   | 24   | 30   | 9    | 14   | 23   | 9    | 14   | 23   |

### Fan

|               |      |            |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |
|---------------|------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| Type          | type | Tangential |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |
| Fan motor     | type | Inverter   |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |
| Number        | no.  | 1          |     |     | 1   |     |     | 1   |     |     | 1   |     |      | 1   |     |     | 1   |     |     |
| Air flow rate | m³/h | 280        | 340 | 389 | 330 | 400 | 446 | 476 | 602 | 684 | 592 | 945 | 1179 | 270 | 330 | 380 | 270 | 330 | 380 |
| Input power   | W    | 23         | 24  | 27  | 22  | 23  | 27  | 31  | 41  | 48  | 38  | 55  | 75   | 13  | 17  | 22  | 23  | 24  | 27  |

### Fan coil sound data (4)

|                   |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Sound power level | dB(A) | 42,0 | 48,0 | 53,0 | 42,0 | 48,0 | 53,0 | 44,0 | 49,0 | 54,0 | 44,0 | 54,0 | 60,0 | 42,0 | 48,0 | 53,0 | 42,0 | 48,0 | 53,0 |
| Sound pressure    | dB(A) | 34,0 | 39,5 | 44,5 | 34,0 | 39,5 | 44,5 | 35,5 | 40,5 | 45,5 | 35,5 | 45,5 | 51,5 | 34,0 | 39,5 | 44,5 | 34,0 | 39,5 | 44,5 |

### Diametre hydraulic yttings

|           |   |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------|---|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Main coil | Ø | 1/2" |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------|---|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

### Power supply

|              |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Power supply | 230V~50Hz |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

|                                       |       | FCWI322V   |      |      | FCWI323V |      |      | FCWI422V |      |      | FCWI423V |      |      | FCWI522V |       |       | FCWI523V |       |       |
|---------------------------------------|-------|------------|------|------|----------|------|------|----------|------|------|----------|------|------|----------|-------|-------|----------|-------|-------|
|                                       |       | 1          | 2    | 3    | 1        | 2    | 3    | 1        | 2    | 3    | 1        | 2    | 3    | 1        | 2     | 3     | 1        | 2     | 3     |
|                                       |       | L          | M    | H    | L        | M    | H    | L        | M    | H    | L        | M    | H    | L        | M     | H     | L        | M     | H     |
| Heating performance 70 °C / 60 °C (1) |       |            |      |      |          |      |      |          |      |      |          |      |      |          |       |       |          |       |       |
| Heating capacity                      | kW    | 3,25       | 4,36 | 5,03 | 3,25     | 4,36 | 5,03 | 6,29     | 7,23 | 7,97 | 6,29     | 7,23 | 7,97 | 8,04     | 11,80 | 14,00 | 8,04     | 11,80 | 14,00 |
| Water flow rate system side           | l/h   | 286        | 383  | 442  | 286      | 383  | 442  | 552      | 635  | 699  | 552      | 635  | 699  | 704      | 1034  | 1227  | 704      | 1034  | 1227  |
| Pressure drop system side             | kPa   | 13         | 22   | 29   | 13       | 22   | 29   | 21       | 27   | 32   | 21       | 27   | 32   | 10       | 21    | 28    | 10       | 21    | 28    |
| Heating performance 45 °C / 40 °C (2) |       |            |      |      |          |      |      |          |      |      |          |      |      |          |       |       |          |       |       |
| Heating capacity                      | kW    | 1,62       | 2,17 | 2,50 | 1,62     | 2,17 | 2,50 | 3,13     | 3,60 | 3,96 | 3,13     | 3,60 | 3,96 | 4,00     | 5,90  | 7,00  | 4,00     | 5,90  | 7,00  |
| Water flow rate system side           | l/h   | 281        | 377  | 434  | 281      | 377  | 434  | 543      | 624  | 688  | 543      | 624  | 688  | 695      | 1025  | 1216  | 695      | 1025  | 1216  |
| Pressure drop system side             | kPa   | 13         | 22   | 29   | 13       | 22   | 29   | 20       | 26   | 31   | 20       | 26   | 31   | 11       | 22    | 30    | 11       | 22    | 30    |
| Cooling performance 7 °C / 12 °C (3)  |       |            |      |      |          |      |      |          |      |      |          |      |      |          |       |       |          |       |       |
| Cooling capacity                      | kW    | 1,55       | 2,08 | 2,40 | 1,55     | 2,08 | 2,40 | 3,00     | 3,45 | 3,80 | 3,00     | 3,45 | 3,80 | 4,00     | 6,00  | 7,00  | 4,00     | 6,00  | 7,00  |
| Sensible cooling capacity             | kW    | 1,28       | 1,68 | 1,97 | 1,28     | 1,68 | 1,97 | 2,01     | 2,50 | 2,85 | 2,01     | 2,50 | 2,85 | 2,85     | 4,50  | 5,30  | 2,85     | 4,50  | 5,30  |
| Water flow rate system side           | l/h   | 267        | 358  | 413  | 267      | 358  | 413  | 516      | 593  | 654  | 516      | 593  | 654  | 686      | 1030  | 1201  | 686      | 1030  | 1201  |
| Pressure drop system side             | kPa   | 13         | 22   | 29   | 13       | 22   | 29   | 21       | 27   | 32   | 21       | 27   | 32   | 11       | 23    | 30    | 11       | 23    | 30    |
| Fan                                   |       |            |      |      |          |      |      |          |      |      |          |      |      |          |       |       |          |       |       |
| Type                                  | type  | Tangential |      |      |          |      |      |          |      |      |          |      |      |          |       |       |          |       |       |
| Fan motor                             | type  | Inverter   |      |      |          |      |      |          |      |      |          |      |      |          |       |       |          |       |       |
| Number                                | no.   | 1          |      |      | 1        |      |      | 1        |      |      | 1        |      |      | 1        |       |       | 1        |       |       |
| Air flow rate                         | m³/h  | 320        | 390  | 440  | 320      | 390  | 440  | 370      | 470  | 540  | 370      | 470  | 540  | 535      | 859   | 1082  | 535      | 859   | 1082  |
| Input power                           | W     | 22         | 23   | 27   | 22       | 23   | 27   | 31       | 41   | 48   | 31       | 41   | 48   | 38       | 55    | 75    | 38       | 55    | 75    |
| Fan coil sound data (4)               |       |            |      |      |          |      |      |          |      |      |          |      |      |          |       |       |          |       |       |
| Sound power level                     | dB(A) | 42,0       | 48,0 | 53,0 | 42,0     | 48,0 | 53,0 | 44,0     | 49,0 | 54,0 | 44,0     | 49,0 | 54,0 | 44,0     | 54,0  | 60,0  | 44,0     | 54,0  | 60,0  |
| Sound pressure                        | dB(A) | 34,0       | 39,5 | 44,5 | 34,0     | 39,5 | 44,5 | 35,5     | 40,5 | 45,5 | 35,5     | 40,5 | 45,5 | 35,5     | 45,5  | 51,5  | 35,5     | 45,5  | 51,5  |
| Diametre hydraulic yttings            |       |            |      |      |          |      |      |          |      |      |          |      |      |          |       |       |          |       |       |
| Main coil                             | Ø     | 1/2"       |      |      |          |      |      |          |      |      |          |      |      |          |       |       |          |       |       |
| Power supply                          |       |            |      |      |          |      |      |          |      |      |          |      |      |          |       |       |          |       |       |
| Power supply                          |       | 230V~50Hz  |      |      |          |      |      |          |      |      |          |      |      |          |       |       |          |       |       |

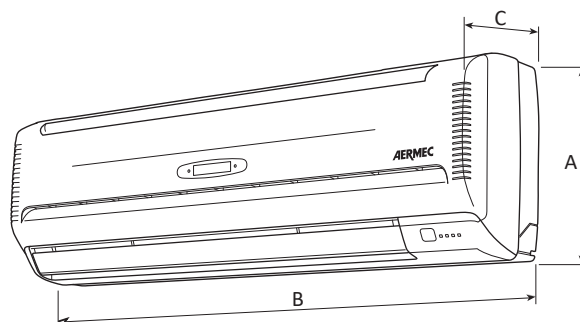
(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

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

(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

## DIMENSIONS



|                               |    | FCWI22VL | FCWI32VL | FCWI42VL | FCWI52VL | FCWI222V | FCWI223V |
|-------------------------------|----|----------|----------|----------|----------|----------|----------|
| <b>Dimensions and weights</b> |    |          |          |          |          |          |          |
| A                             | mm | 298      | 305      | 360      | 365      | 298      | 298      |
| B                             | mm | 880      | 990      | 1170     | 1450     | 880      | 880      |
| C                             | mm | 205      | 210      | 220      | 230      | 205      | 205      |
| Empty weight                  | kg | 9        | 10       | 19       | 28       | 9        | 9        |

|                               |    | FCWI322V | FCWI323V | FCWI422V | FCWI423V | FCWI522V | FCWI523V |
|-------------------------------|----|----------|----------|----------|----------|----------|----------|
| <b>Dimensions and weights</b> |    |          |          |          |          |          |          |
| A                             | mm | 305      | 305      | 360      | 360      | 365      | 365      |
| B                             | mm | 990      | 990      | 1170     | 1170     | 1450     | 1450     |
| C                             | mm | 210      | 210      | 220      | 220      | 230      | 230      |
| Empty weight                  | kg | 10       | 10       | 19       | 19       | 28       | 28       |

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