

# FCZI EU

## Fan coil for universal and floor installation

Cooling capacity 2.2 ÷ 26 MBtu/h  
Heating capacity 4.9 ÷ 58.1 MBtu/h

- Electric saving equal to 50% with respect to a fan coil with 3-speed motor
- Total comfort: reduced variations in temperature and relative humidity
- Vertical and horizontal installation
- Very quiet



### DESCRIPTION

fan coil can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

### FEATURES

#### Case

Protective metal cabinet with anti-corrosion polyester RAL 9003 paint, whereas the head with the air distribution grille is in RAL 7047 plastic.

#### Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans. They are statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

#### Finned pack heat exchanger

With copper pipes and aluminium louvers, the standard or oversized heat exchanger and the possible secondary heat exchanger have female gas water connections on the left side and the manifolds have air vents.

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

The unit is supplied with nipple adapters with male gas type thread on the exchanger side and NPT female type on the system side.

**Reversibility of hydraulic connections when ordering.**

#### Condensate drip

Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

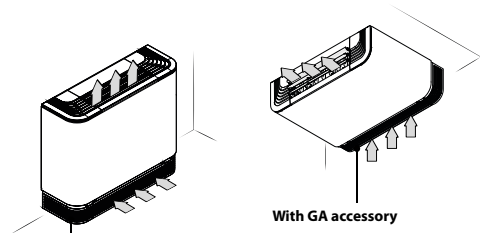
#### Air filter

Air filter easily removed and cleaned.

#### Versions

**EU** With casing for ceiling installation

**EUF** With casing for ceiling installation, with adjustable outlet grille



With mandatory FIKIT and GA accessories

### Options

Without options

**TL** Electronic control board for 120V power supply

**TH** Electronic control board for 240V power supply

### Types of installation

| HORIZONTAL INSTALLATION | VERTICAL INSTALLATION |
|-------------------------|-----------------------|
| EU                      | EU                    |
|                         | EUF                   |

### CONFIGURATOR

| Field   | Description   |
|---------|---|
| 1,2,3,4 | FCZI  |
| 5       | Size<br>2, 3, 4, 5, 7, 9  |
| 6       | main heat exchanger   |
| 0       | Standard 3-row  |
| 5       | Oversized 4-row   |
| 7       | Secondary heat exchanger  |
| 0       | Without heat exchanger  |
| 1       | Standard 1-row (only heating) (1)                                   |
| 8,9     | Version (2)   |
| EU      | With casing for ceiling installation                                |
| EUF     | With casing for ceiling installation, with adjustable outlet grille |
| 10      | Options   |
| .       | Without options   |

| Field | Description                                    |
|-------|--|
| TH    | Electronic control board for 240V power supply |
| TL    | Electronic control board for 120V power supply |

- (1) 1-row secondary coil is available with the standard 3-row main coil only  
(2) For floor installation, it is mandatory to add the FIKIT and GA accessories (bottom supports)

## ACCESSORIES

### Control panels

**TX24:** Wall-mounting thermostat for controlling 2/4 tube fan coils with brushless motors.

### Water valves

**VCZ4124:** 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

**VCZ4224:** 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

**VCZ4324:** 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

**VCZD124:** 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

**VCZD224:** 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

**VCZD324:** 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

**VCF4424:** The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

**VCF4524:** The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

**VCFD124:** Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left.

**VCFD224:** Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left.

**VCFD324:** Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left.

**VCFD424:** Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left.

**The actuator is 24 Volt for all valves.**

### Installation accessories

**BC:** Condensate drip.

**BCZ:** Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

**FIKIT200:** Structural bracket in floor installation.

**FIKIT300:** Structural bracket in floor installation.

**FIKIT500:** Structural bracket in floor installation.

**FIKIT800:** Structural bracket in floor installation.

**GA:** Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

## ACCESSORIES COMPATIBILITY

### Control panels

| Accessory | FCZ1200EU | FCZ1201EU | FCZ1250EU | FCZ1300EU | FCZ1301EU | FCZ1350EU | FCZ1400EU | FCZ1401EU | FCZ1450 EU |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| TX24      | .         | .         | .         | .         | .         | .         | .         | .         | .          |

| Accessory | FCZ1500EU | FCZ1501EU | FCZ1550EU | FCZ1700EU | FCZ1701EU | FCZ1750EU | FCZ1900EU | FCZ1901EU | FCZ1950EU |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TX24      | .         | .         | .         | .         | .         | .         | .         | .         | .         |

### Water valves

#### 3 way valve kit

|                | 200     | 201     | 202     | 250     | 300     | 301     | 302     | 350     | 400     | 401     | 402     | 450     |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Main coil      | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 |
| Secondary coil | -       | VCF4424 | VCF4424 | -       | -       | VCF4424 | VCF4424 | -       | -       | VCF4424 | VCF4424 | -       |

|                | 500     | 501     | 502     | 550     | 700     | 701     | 702     | 750     | 900     | 901     | 950     |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Main coil      | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4324 | VCZ4324 | VCZ4324 |
| Secondary coil | -       | VCF4424 | VCF4424 | -       | -       | VCF4424 | VCF4424 | -       | -       | VCF4524 | -       |

VCZ4124 - 4224 - 4324; VCF4224 - 4524 (24V)

#### 2 way valve kit

|                | 200     | 201     | 202     | 250     | 300     | 301     | 302     | 350     | 400     | 401     | 402     | 450     |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Main coil      | VCZD124 | VCZD124 | VCZD124 | VCZD124 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 |
| Secondary coil | -       | VCFD424 | VCFD424 | -       | -       | VCFD424 | VCFD424 | -       | -       | VCFD424 | VCFD424 | -       |

|                | 500     | 501     | 502     | 550     | 700     | 701     | 702     | 750     | 900     | 901     | 950     |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Main coil      | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD324 | VCZD324 | VCZD324 |
| Secondary coil | -       | VCFD424 | VCFD424 | -       | -       | VCFD424 | VCFD424 | -       | -       | VCFD424 | -       |

VCZD124 - 224 - 324; VCFD424 (24V)

### Installation accessories

| Accessory | FCZ1200EU | FCZ1201EU | FCZ1250EU | FCZ1300EU | FCZ1301EU | FCZ1350EU | FCZ1400EU | FCZ1401EU | FCZ1450 EU |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| FIKIT200  | .         | .         | .         |           |           |           |           |           |            |
| FIKIT300  |           |           |           | .         | .         | .         |           |           |            |
| FIKIT500  |           |           |           |           |           |           | .         | .         | .          |
| FIKIT800  |           |           |           |           |           |           |           |           |            |

|                        |           |           |           |           |           |           |           |           |            |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| <b>Accessory</b>       | FCZI500EU | FCZI501EU | FCZI550EU | FCZI700EU | FCZI701EU | FCZI750EU | FCZI900EU | FCZI901EU | FCZI950EU  |
| FIKIT200               |           |           |           |           |           |           |           |           |            |
| FIKIT300               |           |           |           |           |           |           |           |           |            |
| FIKIT500               | .         | .         | .         |           |           |           |           |           |            |
| FIKIT800               |           |           |           | .         | .         | .         | .         | .         | .          |
| <b>Accessory</b>       | FCZI200EU | FCZI201EU | FCZI250EU | FCZI300EU | FCZI301EU | FCZI350EU | FCZI400EU | FCZI401EU | FCZI450 EU |
| GA200                  | .         | .         | .         |           |           |           |           |           |            |
| GA300                  |           |           |           | .         | .         | .         |           |           |            |
| GA500                  |           |           |           |           |           |           | .         | .         | .          |
| GA800                  |           |           |           |           |           |           |           |           |            |
| <b>Accessory</b>       | FCZI500EU | FCZI501EU | FCZI550EU | FCZI700EU | FCZI701EU | FCZI750EU | FCZI900EU | FCZI901EU | FCZI950EU  |
| GA200                  |           |           |           |           |           |           |           |           |            |
| GA300                  |           |           |           |           |           |           |           |           |            |
| GA500                  | .         | .         | .         |           |           |           |           |           |            |
| GA800                  |           |           |           | .         | .         | .         | .         | .         | .          |
| <b>Condensate drip</b> |           |           |           |           |           |           |           |           |            |
| <b>Accessory</b>       | FCZI200EU | FCZI201EU | FCZI250EU | FCZI300EU | FCZI301EU | FCZI350EU | FCZI400EU | FCZI401EU | FCZI450 EU |
| BCZ4                   | .         | .         | .         | .         | .         | .         | .         | .         | .          |
| BCZ5                   | .         | .         | .         | .         | .         | .         | .         | .         | .          |
| BCZ6                   |           |           |           |           |           |           |           |           |            |
| <b>Accessory</b>       | FCZI500EU | FCZI501EU | FCZI550EU | FCZI700EU | FCZI701EU | FCZI750EU | FCZI900EU | FCZI901EU | FCZI950EU  |
| BCZ4                   | .         | .         | .         | .         | .         | .         | .         | .         | .          |
| BCZ5                   | .         | .         | .         | .         | .         | .         |           |           |            |
| BCZ6                   |           |           |           |           |           |           | .         | .         | .          |
| <b>Accessory</b>       | FCZI200EU | FCZI201EU | FCZI250EU | FCZI300EU | FCZI301EU | FCZI350EU | FCZI400EU | FCZI401EU | FCZI450 EU |
| BC8                    | .         | .         | .         | .         | .         | .         | .         | .         | .          |
| BC9                    |           |           |           |           |           |           |           |           |            |
| <b>Accessory</b>       | FCZI500EU | FCZI501EU | FCZI550EU | FCZI700EU | FCZI701EU | FCZI750EU | FCZI900EU | FCZI901EU | FCZI950EU  |
| BC8                    | .         | .         | .         | .         | .         | .         |           |           |            |
| BC9                    |           |           |           |           |           |           | .         | .         | .          |

## PERFORMANCE SPECIFICATIONS

### Technical data - 2-pipe systems (main coil)

#### 2-pipe

|   | FCZI200EU           |             |      | FCZI250EU |             |      | FCZI300EU |             |      | FCZI350EU |             |      | FCZI400EU |             |      | FCZI450EU |             |      |       |
|---|---------------------|-------------|------|-----------|-------------|------|-----------|-------------|------|-----------|-------------|------|-----------|-------------|------|-----------|-------------|------|-------|
|   | 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    |       |
| <b>Heating performance 158 °F / 140 °F (1)</b>    |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Heating capacity                                  | MBH                 | 6.9         | 10.1 | 12.6      | 7.5         | 10.9 | 13.8      | 11.8        | 15.2 | 18.8      | 12.9        | 16.8 | 21.0      | 14.7        | 19.6 | 24.4      | 15.6        | 21.5 | 26.7  |
| Water flow rate system side                       | gpm                 | 0.8         | 1.1  | 1.4       | 0.8         | 1.2  | 1.6       | 1.3         | 1.7  | 2.1       | 1.5         | 1.9  | 2.4       | 1.7         | 2.2  | 2.8       | 1.8         | 2.4  | 3.0   |
| Pressure drop system side                         | ft H <sub>2</sub> O | 2.01        | 4.01 | 6.02      | 2.34        | 5.02 | 7.69      | 2.34        | 4.01 | 6.02      | 2.68        | 4.68 | 6.69      | 3.01        | 5.35 | 8.03      | 2.01        | 3.68 | 5.35  |
| <b>Heating performance 113 °F / 104 °F (2)</b>    |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Heating capacity                                  | MBH                 | 3.4         | 5.0  | 6.3       | 3.7         | 5.4  | 6.9       | 5.9         | 7.5  | 9.3       | 6.4         | 8.3  | 10.4      | 7.3         | 9.7  | 12.1      | 7.7         | 10.6 | 13.2  |
| Water flow rate system side                       | gpm                 | 0.8         | 1.1  | 1.4       | 0.8         | 1.2  | 1.5       | 1.3         | 1.7  | 2.1       | 1.4         | 1.9  | 2.3       | 1.6         | 2.2  | 2.7       | 1.7         | 2.4  | 3.0   |
| Pressure drop system side                         | ft H <sub>2</sub> O | 2.01        | 4.01 | 6.02      | 2.68        | 5.02 | 7.36      | 2.68        | 4.01 | 6.02      | 3.01        | 4.68 | 7.03      | 3.35        | 5.35 | 8.03      | 2.01        | 3.68 | 5.35  |
| <b>Cooling performances 44.6 °F / 53.6 °F (3)</b> |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Cooling capacity                                  | MBH                 | 3.0         | 4.4  | 5.5       | 3.6         | 5.3  | 6.6       | 5.7         | 7.4  | 9.0       | 6.4         | 8.4  | 10.3      | 7.5         | 10.0 | 12.3      | 8.2         | 11.0 | 13.8  |
| Sensible cooling capacity                         | MBH                 | 2.4         | 3.6  | 4.5       | 2.7         | 4.1  | 5.2       | 4.3         | 5.6  | 7.0       | 4.5         | 6.0  | 7.4       | 5.4         | 7.3  | 9.1       | 5.8         | 7.8  | 9.9   |
| Water flow rate system side                       | gpm                 | 0.7         | 1.0  | 1.2       | 0.8         | 1.2  | 1.5       | 1.3         | 1.6  | 2.0       | 1.5         | 2.0  | 2.5       | 1.7         | 2.2  | 2.7       | 1.8         | 2.4  | 3.1   |
| Pressure drop system side                         | ft H <sub>2</sub> O | 2.01        | 4.01 | 6.02      | 2.68        | 5.69 | 8.36      | 2.68        | 4.35 | 6.02      | 3.68        | 6.02 | 8.36      | 3.35        | 5.69 | 8.03      | 3.01        | 5.02 | 7.36  |
| <b>Fan</b>  |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Type  | type                | Centrifugal |      |           | Centrifugal |      |           | Centrifugal |      |           | Centrifugal |      |           | Centrifugal |      |           | Centrifugal |      |       |
| Fan motor   | type                | Inverter    |      |           | Inverter    |      |           | Inverter    |      |           | Inverter    |      |           | Inverter    |      |           | Inverter    |      |       |
| Number  | no.                 | 1           |      |           | 1           |      |           | 2           |      |           | 2           |      |           | 2           |      |           | 2           |      |       |
| Air flow rate                                     | cfm                 | 82          | 129  | 171       | 82          | 129  | 171       | 153         | 206  | 265       | 153         | 206  | 265       | 194         | 271  | 353       | 194         | 271  | 353   |
| <b>Fan coil sound data (4)</b>                    |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Sound power level                                 | dB(A)               | 35.0        | 46.0 | 51.0      | 35.0        | 46.0 | 51.0      | 34.0        | 41.0 | 48.0      | 34.0        | 41.0 | 48.0      | 37.0        | 44.0 | 51.0      | 37.0        | 44.0 | 51.0  |
| Sound pressure level                              | dB(A)               | 27.0        | 38.0 | 43.0      | 27.0        | 38.0 | 43.0      | 26.0        | 33.0 | 40.0      | 26.0        | 33.0 | 40.0      | 29.0        | 36.0 | 43.0      | 29.0        | 36.0 | 43.0  |
| <b>Diametre hydraulic fittings</b>                |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Main heat exchanger                               | Ø                   | 1/2"        |      |           | 1/2"        |      |           | 3/4"        |      |           | 3/4"        |      |           | 3/4"        |      |           | 3/4"        |      |       |
| <b>Fan</b>  |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Fan input power                                   | W                   | 5           | 8    | 14        | 5           | 8    | 14        | 5           | 7    | 13        | 5           | 7    | 13        | 5           | 10   | 18        | 5           | 10   | 18    |
| Signal 0-10V                                      | %                   | 44          | 68   | 90        | 44          | 68   | 90        | 52          | 70   | 90        | 52          | 70   | 90        | 49          | 68   | 90        | 49          | 68   | 90    |
| <b>Power supply</b>                               |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Power supply                                      |                     | 110-240V    |      |           | 110-240V    |      |           | 110-240V    |      |           | 110-240V    |      |           | 110-240V    |      |           | 110-240V    |      |       |
|   | FCZI500EU           |             |      | FCZI550EU |             |      | FCZI700EU |             |      | FCZI750EU |             |      | FCZI900EU |             |      | FCZI950EU |             |      |       |
|   | 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    |       |
| <b>Heating performance 158 °F / 140 °F (1)</b>    |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Heating capacity                                  | MBH                 | 18.0        | 24.9 | 29.0      | 19.9        | 28.5 | 33.3      | 27.6        | 33.4 | 37.5      | 31.1        | 38.6 | 42.7      | 36.7        | 45.6 | 51.7      | 38.2        | 49.2 | 58.3  |
| Water flow rate system side                       | gpm                 | 2.0         | 2.8  | 3.3       | 2.2         | 3.2  | 3.8       | 3.1         | 3.8  | 4.2       | 3.4         | 4.4  | 4.8       | 4.2         | 5.2  | 5.8       | 4.3         | 5.6  | 6.6   |
| Pressure drop system side                         | ft H <sub>2</sub> O | 4.01        | 7.03 | 9.37      | 3.35        | 6.69 | 8.70      | 5.69        | 7.69 | 9.70      | 3.60        | 5.02 | 6.02      | 4.01        | 5.69 | 7.36      | 5.35        | 8.36 | 11.04 |
| <b>Heating performance 113 °F / 104 °F (2)</b>    |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Heating capacity                                  | MBH                 | 8.9         | 12.4 | 14.4      | 9.9         | 14.1 | 16.5      | 13.8        | 16.6 | 18.7      | 15.4        | 19.1 | 21.2      | 18.3        | 22.7 | 25.7      | 19.9        | 24.5 | 29.0  |
| Water flow rate system side                       | gpm                 | 2.0         | 2.8  | 3.2       | 2.2         | 3.2  | 3.7       | 3.1         | 3.7  | 4.2       | 3.5         | 4.3  | 4.8       | 4.1         | 5.1  | 5.8       | 4.3         | 5.5  | 6.5   |
| Pressure drop system side                         | ft H <sub>2</sub> O | 4.01        | 7.03 | 9.37      | 3.35        | 6.69 | 8.70      | 5.69        | 8.03 | 9.70      | 3.35        | 5.02 | 6.02      | 4.01        | 5.69 | 7.36      | 5.02        | 8.03 | 11.04 |
| <b>Cooling performances 44.6 °F / 53.6 °F (3)</b> |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Cooling capacity                                  | MBH                 | 9.1         | 12.6 | 14.5      | 9.9         | 14.1 | 16.3      | 13.4        | 16.7 | 18.8      | 14.6        | 18.2 | 21.0      | 14.6        | 17.1 | 23.6      | 19.7        | 25.0 | 29.3  |
| Sensible cooling capacity                         | MBH                 | 6.6         | 9.3  | 10.9      | 7.1         | 10.2 | 11.9      | 10.2        | 12.8 | 14.7      | 10.9        | 13.8 | 16.1      | 10.1        | 12.9 | 19.4      | 13.0        | 16.6 | 19.7  |
| Water flow rate system side                       | gpm                 | 2.0         | 2.8  | 3.2       | 2.2         | 3.1  | 3.6       | 3.0         | 3.7  | 4.2       | 3.2         | 4.0  | 4.6       | 3.2         | 3.8  | 5.2       | 4.4         | 5.5  | 6.5   |
| Pressure drop system side                         | ft H <sub>2</sub> O | 4.35        | 7.69 | 9.70      | 4.01        | 7.36 | 9.37      | 5.69        | 8.36 | 10.04     | 3.35        | 5.02 | 6.36      | 3.35        | 4.35 | 7.36      | 5.02        | 7.69 | 10.04 |
| <b>Fan</b>  |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Type  | type                | Centrifugal |      |           | Centrifugal |      |           | Centrifugal |      |           | Centrifugal |      |           | Centrifugal |      |           | Centrifugal |      |       |
| Fan motor   | type                | Inverter    |      |           | Inverter    |      |           | Inverter    |      |           | Inverter    |      |           | Inverter    |      |           | Inverter    |      |       |
| Number  | no.                 | 2           |      |           | 2           |      |           | 3           |      |           | 3           |      |           | 3           |      |           | 3           |      |       |
| Air flow rate                                     | cfm                 | 235         | 353  | 424       | 235         | 353  | 424       | 412         | 547  | 671       | 412         | 547  | 671       | 412         | 547  | 671       | 412         | 547  | 671   |
| <b>Fan coil sound data (4)</b>                    |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Sound power level                                 | dB(A)               | 42.0        | 51.0 | 56.0      | 42.0        | 51.0 | 56.0      | 50.0        | 57.0 | 62.0      | 50.0        | 57.0 | 62.0      | 51.0        | 57.0 | 62.0      | 51.0        | 57.0 | 62.0  |
| Sound pressure level                              | dB(A)               | 34.0        | 43.0 | 48.0      | 34.0        | 43.0 | 48.0      | 42.0        | 49.0 | 54.0      | 42.0        | 49.0 | 54.0      | 43.0        | 49.0 | 54.0      | 43.0        | 49.0 | 54.0  |
| <b>Diametre hydraulic fittings</b>                |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Main heat exchanger                               | Ø                   | 3/4"        |      |           | 3/4"        |      |           | 3/4"        |      |           | 3/4"        |      |           | 3/4"        |      |           | 3/4"        |      |       |
| <b>Fan</b>  |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Fan input power                                   | W                   | 7           | 18   | 34        | 7           | 18   | 38        | 30          | 40   | 80        | 30          | 40   | 80        | 30          | 40   | 80        | 30          | 40   | 80    |
| Signal 0-10V                                      | %                   | 50          | 74   | 90        | 50          | 74   | 90        | 56          | 72   | 90        | 56          | 72   | 90        | 56          | 72   | 90        | 56          | 72   | 90    |
| <b>Power supply</b>                               |                     |             |      |           |             |      |           |             |      |           |             |      |           |             |      |           |             |      |       |
| Power supply                                      |                     | 110-240V    |      |           | 110-240V    |      |           | 110-240V    |      |           | 110-240V    |      |           | 110-240V    |      |           | 110-240V    |      |       |

(1) Room air temperature 68 °F d.b.; Water (in/out) 158 °F/140 °F

(2) Room air temperature 68 °F d.b.; Water (in/out) 113 °F/104 °F

(3) Room air temperature 80.6 °F d.b./66.2 °F w.b.; Water (in/out) 44.6 °F/53.6 °F

(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583.

**The unit is supplied with nipples for hydraulic connections.**

## Technical data - 4-pipe systems (main coil + secondary coil)

### 4-pipe

|   |                     | FCZI201EU   |      |      | FCZI301EU   |      |       | FCZI401EU   |      |       | FCZI501EU   |      |      | FCZI701EU   |      |       | FCZI901EU   |      |      |
|---|---------------------|-------------|------|------|-------------|------|-------|-------------|------|-------|-------------|------|------|-------------|------|-------|-------------|------|------|
|   |                     | 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    |
| <b>Heating performance 149 °F / 131 °F (1)</b>    |                     |             |      |      |             |      |       |             |      |       |             |      |      |             |      |       |             |      |      |
| Heating capacity                                  | MBH                 | 3.5         | 4.6  | 5.5  | 6.1         | 7.4  | 8.7   | 7.5         | 9    | 10.6  | 8.8         | 11.4 | 12.7 | 12.5        | 14.6 | 16.9  | 16.1        | 19.2 | 19.5 |
| Water flow rate system side                       | gpm                 | 0.4         | 0.5  | 0.6  | 0.7         | 0.8  | 1.0   | 0.8         | 1.0  | 1.2   | 1.0         | 1.3  | 1.4  | 1.4         | 1.7  | 1.9   | 1.8         | 2.2  | 2.2  |
| Pressure drop system side                         | ft H <sub>2</sub> O | 1.67        | 2.68 | 3.68 | 5.69        | 7.69 | 10.37 | 1.67        | 2.34 | 3.01  | 2.01        | 3.01 | 3.68 | 3.68        | 5.02 | 6.36  | 3.01        | 4.01 | 4.01 |
| <b>Cooling performances 44.6 °F / 53.6 °F (2)</b> |                     |             |      |      |             |      |       |             |      |       |             |      |      |             |      |       |             |      |      |
| Cooling capacity                                  | MBH                 | 3.0         | 4.4  | 5.5  | 5.7         | 7.4  | 9.0   | 7.5         | 10.0 | 12.3  | 9.1         | 12.6 | 14.5 | 13.4        | 16.7 | 18.8  | 14.6        | 17.1 | 23.6 |
| Sensible cooling capacity                         | MBH                 | 2.4         | 3.6  | 4.5  | 4.3         | 5.6  | 7.0   | 5.4         | 7.3  | 9.1   | 6.6         | 9.3  | 10.9 | 10.2        | 12.8 | 14.7  | 10.1        | 12.9 | 19.4 |
| Water flow rate system side                       | gpm                 | 0.7         | 1.0  | 1.2  | 1.3         | 1.6  | 2.0   | 1.7         | 2.2  | 2.7   | 2.0         | 2.8  | 3.2  | 3.0         | 3.7  | 4.2   | 3.2         | 3.8  | 5.2  |
| Pressure drop system side                         | ft H <sub>2</sub> O | 2.34        | 4.35 | 6.02 | 2.68        | 4.35 | 6.02  | 4.68        | 8.03 | 11.37 | 4.35        | 7.69 | 9.70 | 5.69        | 8.36 | 10.04 | 3.35        | 4.01 | 7.36 |
| <b>Fan</b>  |                     |             |      |      |             |      |       |             |      |       |             |      |      |             |      |       |             |      |      |
| Type  | type                | Centrifugal |      |      | Centrifugal |      |       | Centrifugal |      |       | Centrifugal |      |      | Centrifugal |      |       | Centrifugal |      |      |
| Fan motor   | type                | Inverter    |      |      | Inverter    |      |       | Inverter    |      |       | Inverter    |      |      | Inverter    |      |       | Inverter    |      |      |
| Number  | no.                 | 1           |      |      | 2           |      |       | 2           |      |       | 2           |      |      | 3           |      |       | 3           |      |      |
| Air flow rate                                     | cfm                 | 82          | 129  | 171  | 153         | 206  | 265   | 194         | 271  | 353   | 235         | 353  | 424  | 412         | 547  | 671   | 412         | 547  | 671  |
| Sound power level (3)                             | dB(A)               | 35.0        | 46.0 | 51.0 | 34.0        | 41.0 | 48.0  | 37.0        | 44.0 | 51.0  | 42.0        | 51.0 | 56.0 | 50.0        | 57.0 | 62.0  | 51.0        | 57.0 | 62.0 |
| Sound pressure level (10 m)                       | dB(A)               | 27.0        | 38.0 | 43.0 | 26.0        | 33.0 | 40.0  | 29.0        | 36.0 | 43.0  | 34.0        | 43.0 | 48.0 | 42.0        | 49.0 | 54.0  | 43.0        | 49.0 | 54.0 |
| <b>Diameter hydraulic fittings</b>                |                     |             |      |      |             |      |       |             |      |       |             |      |      |             |      |       |             |      |      |
| Main heat exchanger                               | Ø                   | 1/2"        |      |      | 3/4"        |      |       | 3/4"        |      |       | 3/4"        |      |      | 3/4"        |      |       | 3/4"        |      |      |
| Secondary heat exchanger                          | Ø                   | 1/2"        |      |      | 1/2"        |      |       | 1/2"        |      |       | 1/2"        |      |      | 1/2"        |      |       | 1/2"        |      |      |
| <b>Fan</b>  |                     |             |      |      |             |      |       |             |      |       |             |      |      |             |      |       |             |      |      |
| Fan input power                                   | W                   | 7           | 8    | 14   | 5           | 7    | 13    | 5           | 10   | 18    | 7           | 16   | 31   | 30          | 40   | 80    | 30          | 40   | 80   |
| Signal 0-10V                                      | %                   | 44          | 68   | 90   | 52          | 70   | 90    | 49          | 68   | 90    | 50          | 74   | 90   | 56          | 72   | 90    | 56          | 72   | 90   |
| <b>Power supply</b>                               |                     |             |      |      |             |      |       |             |      |       |             |      |      |             |      |       |             |      |      |
| Power supply                                      |                     | 110-240V    |      |      | 110-240V    |      |       | 110-240V    |      |       | 110-240V    |      |      | 110-240V    |      |       | 110-240V    |      |      |

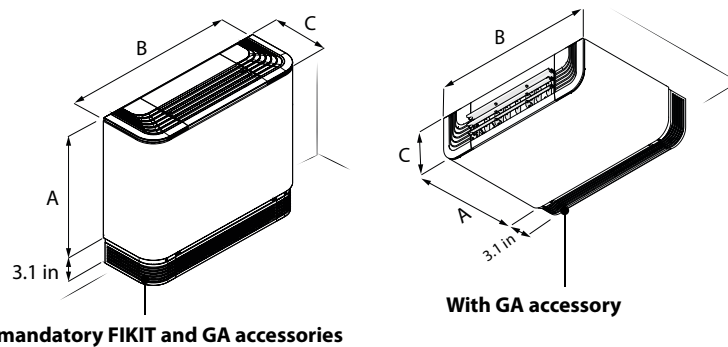
(1) Room air temperature 68 °F d.b.; Water (in/out) 149 °F/131 °F

(2) Room air temperature 80.6 °F d.b./66.2 °F w.b.; Water (in/out) 44.6 °F/53.6 °F

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

**The unit is supplied with nipples for hydraulic connections.**

## DIMENSIONS



With mandatory FIKIT and GA accessories

With GA accessory

|                               |     | FCZI200EU | FCZI201EU | FCZI250EU | FCZI300EU | FCZI301EU | FCZI350EU |
|-------------------------------|-----|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Dimensions and weights</b> |     |           |           |           |           |           |           |
| A                             | in  | 19.1      | 19.1      | 19.1      | 19.1      | 19.1      | 19.1      |
| B                             | in  | 29.5      | 29.5      | 29.5      | 38.6      | 38.6      | 38.6      |
| C                             | in  | 8.7       | 8.7       | 8.7       | 8.7       | 8.7       | 8.7       |
| Empty weight                  | lbs | 35        | 37        | 37        | 40        | 42        | 42        |
|                               |     | FCZI400EU | FCZI401EU | FCZI450EU | FCZI500EU | FCZI501EU | FCZI550EU |
| <b>Dimensions and weights</b> |     |           |           |           |           |           |           |
| A                             | in  | 19.1      | 19.1      | 19.1      | 19.1      | 19.1      | 19.1      |
| B                             | in  | 47.2      | 47.2      | 47.2      | 47.2      | 47.2      | 47.2      |
| C                             | in  | 8.7       | 8.7       | 8.7       | 8.7       | 8.7       | 8.7       |
| Empty weight                  | lbs | 53        | 57        | 57        | 53        | 57        | 57        |
|                               |     | FCZI700EU | FCZI701EU | FCZI750EU | FCZI900EU | FCZI901EU | FCZI950EU |
| <b>Dimensions and weights</b> |     |           |           |           |           |           |           |
| A                             | in  | 19.1      | 19.1      | 19.1      | 23.3      | 23.3      | 23.3      |
| B                             | in  | 52.0      | 52.0      | 52.0      | 52.0      | 52.0      | 52.0      |
| C                             | in  | 8.7       | 8.7       | 8.7       | 8.7       | 8.7       | 8.7       |
| Empty weight                  | lbs | 66        | 71        | 71        | 77        | 82        | 82        |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

**Aermec S.p.A.**

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