

## F3 type variable static pressure adaptive duct · R32 / R410A

### Design adaptive ducted F3 range.

2 installation possibilities (horizontal / vertical) with high ESP 150 Pa allows for flexible installation.



+ COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

| Indoor unit. S-***MF3E5D          |                   | 15                  | 22                 | 28                 | 36                 | 45                 | 56                 | 60                 | 73                  | 90                  | 112                 | 140                 | 160                 |
|-----------------------------------|-------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Cooling capacity                  | kW                | 1,5                 | 2,2                | 2,8                | 3,6                | 4,5                | 5,6                | 6,0                | 7,3                 | 9,0                 | 11,2                | 14,0                | 16,0                |
| Input power                       | W                 | 60,00               | 60,00              | 60,00              | 60,00              | 60,00              | 89,00              | 79,00              | 79,00               | 136,00              | 265,00              | 265,00              | 330,00              |
| Current                           | A                 | 0,45                | 0,45               | 0,45               | 0,45               | 0,45               | 0,63               | 0,52               | 0,52                | 0,90                | 1,76                | 1,76                | 2,14                |
| Heating capacity                  | kW                | 1,7                 | 2,5                | 3,2                | 4,2                | 5,0                | 6,3                | 7,1                | 8,0                 | 10,0                | 12,5                | 16,0                | 18,0                |
| Input power                       | W                 | 60,00               | 60,00              | 60,00              | 60,00              | 60,00              | 89,00              | 79,00              | 79,00               | 136,00              | 265,00              | 265,00              | 330,00              |
| Current                           | A                 | 0,45                | 0,45               | 0,45               | 0,45               | 0,45               | 0,63               | 0,52               | 0,52                | 0,90                | 1,76                | 1,76                | 2,14                |
| R32 leakage sensors <sup>1)</sup> |                   | 2                   | 2                  | 2                  | 2                  | 2                  | 2                  | 2                  | 2                   | 2                   | 2                   | 2                   | 2                   |
| Fan type                          |                   | Sirocco fan         | Sirocco fan        | Sirocco fan        | Sirocco fan        | Sirocco fan        | Sirocco fan        | Sirocco fan        | Sirocco fan         | Sirocco fan         | Sirocco fan         | Sirocco fan         | Sirocco fan         |
| nanoe X Generator                 |                   | Mark 3              | Mark 3             | Mark 3             | Mark 3             | Mark 3             | Mark 3             | Mark 3             | Mark 3              | Mark 3              | Mark 3              | Mark 3              | Mark 3              |
| External static pressure          | Pa                | 30<br>(10-150)      | 30<br>(10-150)     | 30<br>(10-150)     | 30<br>(10-150)     | 30<br>(10-150)     | 30<br>(10-150)     | 30<br>(10-150)     | 30<br>(10-150)      | 40<br>(10-150)      | 50<br>(10-150)      | 50<br>(10-150)      | 50<br>(10-150)      |
| Air flow <sup>2)</sup>            | Hi/<br>Med/<br>Lo | m <sup>3</sup> /min | 12,8/11,0/<br>8,0  | 12,8/11,0/<br>8,0  | 12,8/11,0/<br>8,0  | 14,0/12,0/<br>8,0  | 14,0/12,0/<br>8,0  | 16,0/14,0/<br>10,0 | 21,0/18,0/<br>15,0  | 21,0/18,0/<br>15,0  | 25,0/23,0/<br>16,0  | 37,0/32,0/<br>26,0  | 40,0/34,0/<br>28,0  |
| Sound pressure                    |                   | dB(A)               | 31/28/20           | 31/28/20           | 31/28/20           | 31/28/20           | 31/28/20           | 35/32/24           | 31/28/23            | 31/28/23            | 35/33/25            | 41/36/32            | 43/37/33            |
| Sound power                       |                   | dB(A)               | 54/51/43           | 54/51/43           | 54/51/43           | 54/51/43           | 54/51/43           | 58/55/47           | 54/51/46            | 54/51/46            | 58/56/48            | 64/59/55            | 66/60/56            |
| Dimension (H x W x D)             |                   | mm                  | 250 x 800<br>x 730 | 250 x 800<br>x 730 | 250 x 800<br>x 730 | 250 x 800<br>x 730 | 250 x 800<br>x 730 | 250 x 800<br>x 730 | 250 x 1000<br>x 730 | 250 x 1000<br>x 730 | 250 x 1000<br>x 730 | 250 x 1400<br>x 730 | 250 x 1400<br>x 730 |
| Net weight                        |                   | kg                  | 26                 | 26                 | 26                 | 26                 | 26                 | 26                 | 31                  | 31                  | 31                  | 40                  | 40                  |
| Piping diameter                   | Liquid            | Inch (mm)           | 1/4 (6,35)         | 1/4 (6,35)         | 1/4 (6,35)         | 1/4 (6,35)         | 1/4 (6,35)         | 1/4 (6,35)         | 1/4 (6,35)          | 1/4 (6,35)          | 1/4 (6,35)          | 3/8 (9,52)          | 3/8 (9,52)          |
| R32 model                         | Gas               | Inch (mm)           | 1/2 (12,70)        | 1/2 (12,70)        | 1/2 (12,70)        | 1/2 (12,70)        | 1/2 (12,70)        | 1/2 (12,70)        | 1/2 (12,70)         | 1/2 (12,70)         | 1/2 (12,70)         | 5/8 (15,88)         | 5/8 (15,88)         |
| Piping diameter                   | Liquid            | Inch (mm)           | 1/4 (6,35)         | 1/4 (6,35)         | 1/4 (6,35)         | 1/4 (6,35)         | 1/4 (6,35)         | 3/8 (9,52)         | 3/8 (9,52)          | 3/8 (9,52)          | 3/8 (9,52)          | 3/8 (9,52)          | 3/8 (9,52)          |
| R410A model                       | Gas               | Inch (mm)           | 1/2 (12,70)        | 1/2 (12,70)        | 1/2 (12,70)        | 1/2 (12,70)        | 1/2 (12,70)        | 5/8 (15,88)        | 5/8 (15,88)         | 5/8 (15,88)         | 5/8 (15,88)         | 5/8 (15,88)         | 5/8 (15,88)         |

1) Only available in the R32 version. 2) Value referred to standard settings at shipment (H curve 8, M curve 5, L curve 1).

#### Accessories

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| <b>CZ-RTC6W</b>           | CONEX wired remote controller (non-wireless), white            |
| <b>CZ-RTC6WBL</b>         | CONEX wired remote controller with Bluetooth®, white           |
| <b>CZ-RTC6WBLW2</b>       | CONEX wired remote controller with Wi-Fi and Bluetooth®, white |
| <b>CZ-RTC6</b>            | CONEX wired remote controller (non-wireless), black            |
| <b>CZ-RTC6BL</b>          | CONEX wired remote controller with Bluetooth®, black           |
| <b>CZ-RTC6BLW2</b>        | CONEX wired remote controller with Wi-Fi and Bluetooth®, black |
| <b>CZ-RTC5B</b>           | Wired remote controller with Econavi function                  |
| <b>CZ-RWS3 + CZ-RWRC3</b> | Infrared remote controller and receiver                        |
| <b>PAW-RE2C4-MOD-WH</b>   | Room controller for hotel rooms, white                         |

#### Accessories

|                         |                                                             |
|-------------------------|-------------------------------------------------------------|
| <b>PAW-RE2C4-MOD-BK</b> | Room controller for hotel rooms, black                      |
| <b>PAW-RE2D4-WH</b>     | Display control for hotel rooms, white                      |
| <b>PAW-RE2D4-BK</b>     | Display control for hotel rooms, black                      |
| <b>CZ-CENSC1</b>        | Econavi energy saving sensor                                |
| <b>PAW-APF800F</b>      | BION air pollutant filter for MF3 15, 22, 28, 36, 45 and 56 |
| <b>PAW-APF1000F</b>     | BION air pollutant filter for MF3 60 and 73                 |
| <b>PAW-APF1400F</b>     | BION air pollutant filter for MF3 90, 112, 140 and 160      |
| <b>CZ-CGLALC1</b>       | R32 refrigerant leak alarm                                  |

### Technical focus

- 4 installation possibilities with horizontal and vertical mounting, plus selectable rear or bottom air inlet
- Industry leading low noise with super quiet operation, minimum 20 dB(A)
- Only 250 mm height and lightweight unit from, 26 to 40 kg
- Integrated Panasonic R32 refrigerant leak detectors <sup>1)</sup>
- Improved drain pan suitable for both horizontal / vertical installation
- Drain pump included <sup>2)</sup>
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard, effective even with duct connections up to 10 m with 3 x 90° bends <sup>3)</sup>
- BION air pollutant filter for certain types of pollutants, such as nitrogen dioxide (NO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>) and Ozone (O<sub>3</sub>) (optional)

1) Only available in the R32 version. 2) For use with horizontal installation only. 3) Panasonic internal survey.

### Vertical Installation

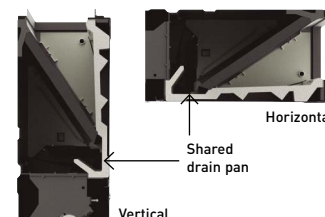
Vertical installation option. Variable external static pressure to support ducted installations with bends.

\* Vertical installation requires additional settings on field, please check the installation manual.



### Improved drain pan design

Drain pan is shared in both cases horizontal and vertical installation. No need to modify the unit.



ECONAVI and INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites [www.aircon.panasonic.eu](http://www.aircon.panasonic.eu) or [www.ptc.panasonic.eu](http://www.ptc.panasonic.eu).