

## Fan Coil Units FWI-AT/AF



# Open protocol Cassette

- BLDC fan motor for a precise control of operation
- 4-way air discharge
- Two dimensional frames (600x600mm and 900x900mm)
- Modern style ABS air intake diffusion grille
- Low operating sound level
- Up to 70% energy savings with brushless DC motor technology compared to traditional technology
- Condensate drainage pump up to 900mm lift
- Available with mounted control board or in naked version to be combinable with any controller
- Reduced installation and commissioning time with the availability of 2-way or 3-way valves, with ON-OFF or modulating actuator, and also pressure-independent control valves



| Indoor unit                               |                         |        |       | FWI-AT/FWI-AF              |       | 02    | 03    | 04    | 06    | 07     | 08    | 02    | 04    | 06   | 08 |
|-------------------------------------------|-------------------------|--------|-------|----------------------------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|----|
|                                           |                         |        |       | 2-pipe                     |       |       |       |       |       | 4-pipe |       |       |       |      |    |
| Cooling capacity<br>(standard conditions) | Total capacity          | High   | kW    | 2.63                       | 4.39  | 5.23  | 6.39  | 9.04  | 10.5  | 2.6    | 3.61  | 6.61  | 9.5   |      |    |
|                                           |                         | Medium | kW    | 2.24                       | 3.4   | 3.95  | 5.36  | 7.26  | 8.37  | 2.18   | 2.8   | 5.34  | 7.62  |      |    |
|                                           |                         | Low    | kW    | 1.93                       | 2.68  | 2.76  | 4.8   | 5.92  | 6.7   | 1.85   | 2.05  | 4.61  | 6.09  |      |    |
|                                           | Sensible capacity       | High   | kW    | 2.2                        | 3.41  | 4.11  | 4.75  | 6.78  | 7.97  | 2.23   | 3.31  | 5.03  | 7.56  |      |    |
|                                           |                         | Medium | kW    | 1.81                       | 2.54  | 2.96  | 3.92  | 5.31  | 6.15  | 1.79   | 2.38  | 3.94  | 5.82  |      |    |
|                                           |                         | Low    | kW    | 1.51                       | 1.94  | 1.98  | 3.8   | 4.24  | 4.8   | 1.46   | 1.62  | 3.34  | 4.5   |      |    |
| Heating capacity<br>(standard conditions) | High                    | kW     | 3.25  | 4.58                       | 5.55  | 7.30  | 10.20 | 12.20 | 3.86  | 4.98   | 9.53  | 12.90 |       |      |    |
|                                           | Medium                  | kW     | 2.70  | 3.48                       | 4.09  | 6.00  | 7.99  | 9.35  | 3.34  | 4.06   | 7.96  | 10.80 |       |      |    |
|                                           | Low                     | kW     | 2.27  | 2.69                       | 2.77  | 5.50  | 6.33  | 7.23  | 2.90  | 3.14   | 7.01  | 8.96  |       |      |    |
| Power input                               | High                    | kW     | 0.018 | 0.037                      | 0.067 | 0.036 | 0.067 | 0.15  | 0.018 | 0.067  | 0.036 | 0.15  |       |      |    |
|                                           | Medium                  | kW     | 0.01  | 0.015                      | 0.022 | 0.018 | 0.036 | 0.06  | 0.01  | 0.022  | 0.018 | 0.06  |       |      |    |
|                                           | Low                     | kW     | 0.007 | 0.009                      | 0.009 | 0.013 | 0.018 | 0.025 | 0.007 | 0.009  | 0.014 | 0.025 |       |      |    |
| Dimensions                                | Unit                    | Height | mm    | 298                        |       |       |       | 350   |       |        |       | 298   |       | 350  |    |
|                                           |                         | Width  | mm    | 577                        |       |       |       | 793   |       |        |       | 577   |       | 793  |    |
|                                           |                         | Depth  | mm    | 577                        |       |       |       | 793   |       |        |       | 577   |       | 793  |    |
| Weight                                    | Unit                    |        | kg    | 23                         |       |       |       | 43    |       |        |       | 23    |       | 43   |    |
| Casing                                    | Material                |        |       | Galvanised steel           |       |       |       |       |       |        |       |       |       |      |    |
| Decoration panel                          | Dimensions              | Height | mm    | 41                         |       |       |       | 75    |       |        |       | 41    |       | 75   |    |
|                                           |                         | Width  | mm    | 730                        |       |       |       | 860   |       |        |       | 730   |       | 860  |    |
|                                           |                         | Depth  | mm    | 730                        |       |       |       | 860   |       |        |       | 730   |       | 860  |    |
|                                           |                         | Weight | kg    | 2.5                        |       |       |       | 5     |       |        |       | 2.5   |       | 5    |    |
| Air Filter<br>Fan                         | Type                    |        |       | Honeycomb polypropylene    |       |       |       |       |       |        |       |       |       |      |    |
|                                           | Type                    |        |       | Backward Centrifugal       |       |       |       |       |       |        |       |       |       |      |    |
|                                           | Quantity                |        |       | 1                          |       |       |       |       |       |        |       |       |       |      |    |
|                                           | Air flow rate           | High   | m³/h  | 583                        | 796   | 980   | 1,276 | 1,554 | 1,831 | 610    | 982   | 1,137 | 1,823 |      |    |
|                                           | Medium                  | m³/h   | 454   | 551                        | 650   | 978   | 1,143 | 1,321 | 460   | 643    | 841   | 1,314 |       |      |    |
|                                           | Low                     | m³/h   | 397   | 397                        | 397   | 843   | 864   | 976   | 356   | 395    | 687   | 956   |       |      |    |
| Total sound power level                   | High                    | dBA    | 46    | 54                         | 61    | 45    | 53    | 58    | 46    | 61     | 45    | 58    |       |      |    |
|                                           | Medium                  | dBA    | 40    | 44                         | 49    | 39    | 45    | 50    | 40    | 49     | 39    | 50    |       |      |    |
|                                           | Low                     | dBA    | 35    | 37                         | 38    | 35    | 39    | 43    | 35    | 38     | 35    | 43    |       |      |    |
| Sound pressure level                      | High                    | dBA    | 38    | 46                         | 61    | 37    | 45    | 50    | 46    | 61     | 45    | 58    |       |      |    |
|                                           | Medium                  | dBA    | 33    | 36                         | 49    | 31    | 37    | 42    | 40    | 49     | 39    | 50    |       |      |    |
|                                           | Low                     | dBA    | 27    | 29                         | 38    | 27    | 31    | 35    | 38    | 35     | 43    |       |       |      |    |
| Water flow                                | Cooling                 | High   | l/h   | 452                        | 754   | 898   | 1,097 | 1,545 | 1,805 | 447    | 620   | 1,135 | 1,631 |      |    |
|                                           |                         | Medium | l/h   | 385                        | 584   | 687   | 921   | 1,245 | 1,436 | 374    | 480   | 917   | 1,307 |      |    |
|                                           |                         | Low    | l/h   | 331                        | 460   | 473   | 833   | 1,015 | 1,150 | 317    | 352   | 792   | 1,045 |      |    |
|                                           | Heating                 | High   | l/h   | 565                        | 797   | 965   | 1,269 | 1,779 | 2,116 | 338    | 435   | 834   | 1,133 |      |    |
|                                           |                         | Medium | l/h   | 470                        | 605   | 711   | 1,043 | 1,390 | 1,625 | 292    | 356   | 697   | 947   |      |    |
|                                           |                         | Low    | l/h   | 395                        | 468   | 481   | 953   | 1,100 | 1,257 | 254    | 275   | 613   | 785   |      |    |
| Allowed water temperature                 | Cooling                 | Min    | °C    | 5                          |       |       |       |       |       |        |       |       |       |      |    |
|                                           | Heating                 | Max    | °C    | 70                         |       |       |       |       |       |        |       |       |       |      |    |
| Piping connections                        | Water                   | Inlet  |       | 1/2"                       |       |       |       | 3/4"  |       |        |       | 1/2"  |       | 3/4" |    |
|                                           |                         | Outlet |       | 1/2"                       |       |       |       | 3/4"  |       |        |       | 1/2"  |       | 3/4" |    |
|                                           | Drain                   | OD     | mm    | 10                         |       |       |       |       |       |        |       |       |       |      |    |
| Power supply                              | Phase/Frequency/Voltage |        | Hz/V  | 1~/50/230                  |       |       |       |       |       |        |       |       |       |      |    |
| Maximum absorbed current                  |                         |        | A     | 0.64                       |       |       |       | 120   |       |        |       | 0.64  |       | 120  |    |
| Control systems                           | Wired remote control    |        |       | FWEC3A/FWEDA/SHINKA/FWEC10 |       |       |       |       |       |        |       |       |       |      |    |

For standard conditions refer to the Measuring Conditions table, at the end of this catalogue



CLIMATE DESIGN D.O.O. Javorska 6, 11226 Beograd,  
Tel: +38162290789, +38162290599  
E-mail: veleprodaja@climatedesign.rs, www.climatedesign.rs

