



| Outdoor Unit   |                     |         | TGTP-16HMDB3       |
|--|---------------------|---------|--------------------|
| Power supply   |                     | V/Ph/Hz | 380~415/3/50       |
| Performance data   |                     |         |                    |
| Rated Heating *1   | Capacity            | kW      | 16                 |
|  | Power input         | kW      | 3,75               |
|  | COP                 | kW/kW   | 4,27               |
| Rated Cooling *2   | Capacity            | kW      | 15,2               |
|  | Power input         | kW      | 5,4                |
|  | EER                 | kW/kW   | 2,81               |
| Heating *3   | Capacity            | kW      | 16                 |
|  | Power input         | kW      | 4,71               |
|  | COP                 | kW/kW   | 3,4                |
| Cooling *4   | Capacity            | kW      | 15,2               |
|  | Power input         | kW      | 3,17               |
|  | EER                 | kW/kW   | 4,8                |
| Seasonal space heating energy eff. Class (average climate general) | water outlet @ 35°C |         | A++                |
|  | water outlet @ 55°C |         | A++                |
| Max. power input   |                     | kW      | 6,4                |
| Max. current input   |                     | A       | 12,1               |
| Sound power level  |                     | dB(A)   | 70                 |
| <b>Physical data</b>   |                     |         |                    |
| Dimension (W×H×D)  |                     | mm      | 1014×1430×450      |
| Packing (W×H×D)  |                     | mm      | 1095×1545×485      |
| Net/gross weight   |                     | kg      | 124/138            |
| Compressor   | Brand               |         | GMCC               |
|  | Type                |         | Rotary DC Inverter |
|  | Model               |         | EKTQ420D1UMU       |
|  | Poles               |         | 6                  |
|  | Speed               | rps     | 12~120             |
|  | Oil                 |         | POE/1400mL         |
| Outdoor fan  | Number of fans      |         | 2                  |
|  | Air flow            | m³/h    | 6100               |

1. The rated heating conditions: water flow 0.172m³/(h·kW), ambient temperature 7°C DB, water inlet/outlet temperature 30/35°C.
2. The rated cooling conditions: water flow 0.172m³/(h·kW), ambient temperature 35°C DB, water inlet/outlet temperature 12/7°C.
3. Heating condition: water flow 0.172m³/(h·kW), ambient temperature 7°C, water inlet/outlet temperature 40/45°C.
4. Cooling condition: water flow 0.172m³/(h·kW), ambient temperature 35°C, water inlet/outlet temperature 23/18°C.

| Hydronic Modul            |                           |                     | TGHM-16HMDB3                    |            |
|---------------------------|---------------------------|---------------------|---------------------------------|------------|
| Power supply              |                           | V/Ph/Hz             | 220~240/1/50                    |            |
| Leaving water temperature | Space heating             | °C                  | 25~60                           |            |
|                           | Space cooling             | °C                  | 5~25                            |            |
|                           | Domestic hot water        | °C                  | 40~60                           |            |
| Max. power input          |                           | kW                  | 3,6                             |            |
| Max. current input        |                           | A                   | 17                              |            |
| Sound power level         |                           | dB(A)               | 45                              |            |
| Dimension (W×H×D)         |                           | mm                  | 490*910*340                     |            |
| Packing (W×H×D)           |                           | mm                  | 620*1105*425                    |            |
| Net/gross weight          |                           | kg                  | 48/56                           |            |
| Water circuit             | Piping connection Dia.    | Outlet              | mm                              | DN32       |
|                           |                           | Inlet               | mm                              | DN32       |
|                           | Safety valve              |                     | kPa                             | 600        |
|                           | Drainage pipe Dia.        |                     | mm                              | DN20       |
|                           | Expansion tank            | Volume              | L                               | 2          |
|                           |                           | Max. water pressure | kPa                             | 800        |
|                           |                           | Pre pressure        | kPa                             | 150        |
|                           | Water side heat exchanger | Type                |                                 | Plate type |
|                           |                           | Volume              | L                               | 1,22       |
|                           | Water pump                | Brand               |                                 | wilo       |
| Model                     |                           |                     | Para 25/9                       |            |
| Pump head                 |                           | m                   | 9                               |            |
| Refrigerant circuit       | Liquid side Dia.          | mm                  | Ø 9.52                          |            |
|                           | Gas side Dia.             | mm                  | Ø 15.88                         |            |
| Back-up E-heater          | Power supply              | V/Ph/Hz             | 230V/1Ph/50Hz                   |            |
|                           | Capacity                  | kW                  | 3kW                             |            |
|                           | Max. power input          | kW                  | 3kW                             |            |
|                           | Max. current input        | A                   | 13.6A                           |            |
| <b>Piping connections</b> |                           |                     |                                 |            |
| Liquid pipe               | Type                      |                     | Flaring                         |            |
|                           | Dia.(OD)                  | mm                  | Ø 9.52                          |            |
| Gas pipe                  | Type                      |                     | Flaring                         |            |
|                           | Dia.(OD)                  | mm                  | Ø 15.88                         |            |
| Max. piping length        |                           | m                   | 50                              |            |
| Max. height difference    | Outdoor unit upside       | m                   | 20                              |            |
|                           | Outdoor unit downside     | m                   | 20                              |            |
| Refrigerant               | Type                      |                     | R32                             |            |
|                           | Quantity                  | kg                  | 3,8                             |            |
|                           | Throttle type             |                     | EXV                             |            |
|                           | Additional charge         | g                   | (Total pipe length - 5)m *30g/m |            |
| Ambient temperature range | Cooling                   | °C                  | -5~46°C                         |            |
|                           | Heating                   | °C                  | -28~43°C                        |            |
|                           | Sanitary hot water        | °C                  | -28~43°C                        |            |
| Water temperature range   | Cooling                   | °C                  | 5~25°C                          |            |
|                           | Heating                   | °C                  | 25~60°C                         |            |
|                           | Sanitary hot water        | °C                  | 40~60°C                         |            |