



| Outdoor Unit | | | TGTP-10HMDA1 |
|--|---------------------|---------|--------------------|
| Power supply | | V/Ph/Hz | 220~240/1/50 |
| Performance data | | | |
| Rated Heating *1 | Capacity | kW | 10 |
| | Power input | kW | 2,22 |
| | COP | kW/kW | 4,5 |
| Rated Cooling *2 | Capacity | kW | 8,5 |
| | Power input | kW | 3,04 |
| | EER | kW/kW | 2,8 |
| Heating *3 | Capacity | kW | 10 |
| | Power input | kW | 2,94 |
| | COP | kW/kW | 3,4 |
| Cooling *4 | Capacity | kW | 8,5 |
| | Power input | kW | 1,77 |
| | 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 | 5 |
| Max. current input | | A | 22 |
| Sound power level | | dB(A) | 68 |
| Physical data | | | |
| Dimension (W×H×D) | | mm | 1032×810×445 |
| Packing (W×H×D) | | mm | 1075×875×495 |
| Net/gross weight | | kg | 64.5/68.5 |
| Compressor | Brand | | GMCC |
| | Type | | Rotary DC Inverter |
| | Model | | EKTF310D43UMT |
| | Poles | | 6 |
| | Speed | rps | 12~120 |
| | Oil | | POE/1000mL |
| Outdoor fan | Number of fans | | 1 |
| | Air flow | m³/h | 4000 |

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 | | | TGHP-12HMDA1 | |
|---------------------------|---------------------------|---------------------|---------------------------------|------------|
| 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 | |
| Piping connections | | | | |
| Liquid pipe | Type | | Flaring | |
| | Dia.(OD) | mm | Ø 9.52 | |
| Gas pipe | Type | | Flaring | |
| | Dia.(OD) | mm | Ø 15.88 | |
| Max. piping length | | m | 20 | |
| Max. height difference | Outdoor unit upside | m | 10 | |
| | Outdoor unit downside | m | 10 | |
| Refrigerant | Type | | R32 | |
| | Quantity | kg | 3 | |
| | 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 | |