

Subtype DE DIETRICH MHTC R290 030

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|---------------------|--|
| Certificate Holder | BDR Thermea FR (DE DIETRICH) |
| Address | 57 rue de la Gare |
| ZIP | 67580 |
| City | Mertzwiller |
| Country | FR |
| Certification Body | Kiwa Nederland B.V. |
| Subtype title | DE DIETRICH MHTC R290 030 |
| Registration number | 007-DO0176 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R290 |
| Mass of Refrigerant | 4.75 kg |
| Certification Date | 10.04.2025 |
| Testing basis | European KEYMARK Scheme for Heat Pumps (v12) |

Model MHTC R290 030

| | |
|-------------------------------------|------------------------|
| Model name | MHTC R290 030 |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C, +18°C/+23°C |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 30.00 kW | 30.00 kW |
| El input | 6.52 kW | 10.07 kW |
| COP | 4.60 | 2.98 |

EN 14511-2 | Cooling

| | +7°C/+12°C | +18°C/+23°C |
|------------------|------------|-------------|
| El input | 7.56 kW | 6.98 kW |
| Cooling capacity | 23.30 | 30.00 |
| EER | 3.08 | 4.30 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| η_s | 204 % | 155 % |
| Prated | 30.00 kW | 30.00 kW |
| SCOP | 5.17 | 3.96 |
| Tbiv | -7 °C | -7 °C |
| TOL | -20 °C | -20 °C |

| | | |
|---|-------------|-------------|
| Pdh Tj = -7°C | 26.41 kW | 26.54 kW |
| COP Tj = -7°C | 2.97 | 2.17 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 16.15 kW | 16.25 kW |
| COP Tj = +2°C | 5.21 | 3.93 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 10.38 kW | 10.39 kW |
| COP Tj = +7°C | 7.15 | 5.45 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| Pdh Tj = 12°C | 8.17 kW | 8.30 kW |
| COP Tj = 12°C | 8.01 | 7.65 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 26.41 kW | 26.54 kW |
| COP Tj = Tbiv | 2.97 | 2.17 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 25.31 kW | 25.07 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.71 | 1.96 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900 | 0.900 |
| WTOL | 35 °C | 55 °C |
| Poff | 135 W | 135 W |
| PTO | 200 W | 175 W |
| PSB | 135 W | 135 W |
| PCK | 90 W | 90 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 4.69 kW | 4.93 kW |
| Annual energy consumption Qhe | 3390 kWh | 3149 kWh |

EN 14825 | Cooling

| | | |
|----------------|------------|-------------|
| | +7°C/+12°C | +18°C/+23°C |
| Pdesignc | 23.30 kW | 30.00 kW |
| SEER | 4.55 | 5.31 |
| Pdc Tj = 35°C | 23.30 kW | 30.00 kW |
| EER Tj = 35°C | 3.08 | 4.30 |
| Cdc Tj = 35 °C | 0.900 | 0.900 |
| Pdc Tj = 30°C | 17.68 kW | 22.11 kW |
| EER Tj = 30°C | 4.15 | 5.17 |
| Cdc Tj = 30 °C | 0.900 | 0.900 |
| Pdc Tj = 25°C | 11.37 kW | 14.21 kW |
| EER Tj = 25°C | 5.62 | 6.63 |
| Cdc Tj = 25 °C | 0.900 | 0.900 |
| Pdc Tj = 20°C | 5.78 kW | 7.90 kW |
| EER Tj = 20°C | 5.80 | 7.20 |
| Cdc Tj = 20 °C | 0.900 | 0.900 |
| Poff | 20 W | 300 W |

| | | |
|-------------------------------|----------|----------|
| PTO | 166 W | 166 W |
| PSB | 0 W | 0 W |
| PCK | 0 W | 0 W |
| Annual energy consumption Qce | 3075 kWh | 3390 kWh |

Model MHTC R290 030 HR

| | |
|-------------------------------------|------------------------|
| Model name | MHTC R290 030 HR |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C, +18°C/+23°C |
| Any additional heat sources | n/a |

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| Cdc Tj = 20 °C | 0.900 | 0.900 |
| Poff | 20 W | 300 W |

| | | |
|-------------------------------|----------|----------|
| PTO | 166 W | 166 W |
| PSB | 0 W | 0 W |
| PCK | 0 W | 0 W |
| Annual energy consumption Qce | 3075 kWh | 3390 kWh |