

Subtype DE DIETRICH MHTC R290 030

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	21.02.2024
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	65 dB(A)	65 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	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	62.54 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

General data

Power supply	n/a
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

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EER	3.08	4.30

EN 12102-1 | Average Climate

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EN 14825 | Average Climate

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EER Tj = 20°C	5.80	7.20
Cdc Tj = 20 °C	0.900	0.900
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PTO	166 W	166 W

PSB	0 W	0 W
PCK	0 W	0 W
Annual energy consumption Qce	3075 kWh	3390 kWh