

## Subtype DE DIETRICH MMTC R32 020

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 MMTC R32 020
Registration number	22HK0054 / 007-DO0154
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	4.8 kg
Certification Date	27.06.2023
Testing basis	European KEYMARK Scheme for Heat Pumps (v11)

## Model MMTC R32 020

Model name	MMTC R32 020
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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	65 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	174 %	130 %
Prated	16.80 kW	13.80 kW
SCOP	4.42	3.33
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.44 kW	11.94 kW
COP Tj = -7°C	2.78	1.95
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.53 kW	6.97 kW
COP Tj = +2°C	4.59	3.23
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.37 kW	4.80 kW
COP Tj = +7°C	5.22	4.21
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	6.28 kW	6.10 kW
COP Tj = 12°C	7.76	7.04
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.78 kW	11.63 kW
COP Tj = Tbiv	3.10	2.40

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.87 kW	13.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.67	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	58 °C	58 °C
Poff	0 W	0 W
PTO	58 W	58 W
PSB	58 W	58 W
PCK	60 W	60 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.93 kW	0.60 kW
Annual energy consumption Qhe	7847 kWh	8573 kWh

## Model MMTC R32 020 HR

Model name	MMTC R32 020 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	65 dB(A)

### EN 14825 | Average Climate

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PTO	58 W	58 W
PSB	58 W	58 W
PCK	60 W	60 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.93 kW	0.60 kW
Annual energy consumption Qhe	7847 kWh	8573 kWh