

Subtype Dream Maker Smart Heat Pump-R290-20-C

Certificate Holder	Dream Maker Technologie GmbH
Address	Zimmerbachstr.37
ZIP	74676
City	Niedernhall
Country	DE
Certification Body	BRE Global Limited
Subtype title	Dream Maker Smart Heat Pump-R290-20-C
Registration number	041-K043-10
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	2.1 kg
Certification Date	24.12.2024
Testing basis	HP KEYMARK certification scheme rules rev. no.15

Model Indoor unit: HPCWT-350L, Outdoor unit: HP-20KW-R290-T1

Model name	Indoor unit: HPCWT-350L, Outdoor unit: HP-20KW-R290-T1
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	104 %
COP	2.61
Heating up time	1:22:36 h:min
Standby power input	35.0 W
Reference hot water temperature	47.1 °C
Mixed water at 40°C	244 l

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	12.92 kW	12.81 kW
El input	2.86 kW	4.15 kW
COP	4.53	3.09

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	35 dB(A)
Sound power level outdoor	56 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	181 %	136 %

Prated	16.76 kW	15.55 kW
SCOP	4.60	3.47
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.83 kW	13.76 kW
COP Tj = -7°C	2.89	2.23
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	9.03 kW	8.38 kW
COP Tj = +2°C	4.30	3.27
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.54 kW	7.22 kW
COP Tj = +7°C	6.86	4.99
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	8.93 kW	8.62 kW
COP Tj = 12°C	9.23	6.71
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	14.83 kW	13.76 kW
COP Tj = Tbiv	2.89	2.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.69 kW	12.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	2.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	23 W	23 W
PTO	33 W	33 W
PSB	23 W	23 W
PCK	25 W	25 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	2.57 kW
Annual energy consumption Qhe	7523 kWh	9264 kWh