

Subtype Dream Maker Smart Heat Pump-R290-12-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-R290-12-C
Registration number	041-K043-08
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.9 kg
Certification Date	24.12.2024
Testing basis	HP KEYMARK certification scheme rules rev. no.15

Model Indoor unit: HPCWT-350L Outdoor unit: HP-12KW-R290-S1

Model name	Indoor unit: HPCWT-350L Outdoor unit: HP-12KW-R290-S1
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	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water
EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	115 %
COP	2.88
Heating up time	1:59:42 h:min
Standby power input	35.0 W
Reference hot water temperature	44.8 °C
Mixed water at 40°C	227 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 14825 | Average Climate

	Low temperature	Medium temperature
η_s	186 %	142 %
Prated	9.42 kW	8.60 kW
SCOP	4.73	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.33 kW	7.60 kW
COP Tj = -7°C	3.10	2.31
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.05 kW	4.82 kW
COP Tj = +2 °C	4.79	3.65
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.42 kW	4.19 kW
COP Tj = +7°C	6.21	4.72

Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.17 kW	4.95 kW
COP Tj = 12°C	8.06	6.28
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.33 kW	7.60 kW
COP Tj = Tbiv	3.10	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.53 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.81	2.06
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	12 W	12 W
PTO	21 W	21 W
PSB	12 W	12 W
PCK	26 W	26 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.88 kW	1.41 kW
Annual energy consumption Qhe	4115 kWh	4911 kWh