

**Subtype Air to Water Heat Pump- R290- 12**

Certificate Holder	Dream Maker Technologie GmbH
Address	Zimmerbachstr.37
ZIP	74676
City	Niedernhall
Country	DE
Certification Body	BRE Global Limited
Subtype title	Air to Water Heat Pump- R290- 12
Registration number	041-K043-04
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.9 kg
Certification Date	09.09.2024
Testing basis	HP KEYMARK certification scheme rules rev. no.14
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

**Model Indoor unit: HPCB-W1-HT, Outdoor unit: HP-12KW-R290-S1**

Model name	Indoor unit: HPCB-W1-HT, Outdoor unit: HP-12KW-R290-S1
Application	Heating (medium 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 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	12.80 kW	12.67 kW
El input	2.96 kW	4.18 kW
COP	4.32	3.03

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	31 dB(A)
Sound power level outdoor	51 dB(A)	50 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	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	70 °C	70 °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