

Subtype ThermaX R290 6KW

Certificate Holder	GD Shenling Thermal Tech Co., Ltd
Address	No.29 Shunye East Rd.
ZIP	528325
City	Foshan
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	ThermaX R290 6KW
Registration number	011-1W0745
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.7 kg
Certification Date	29.11.2023
Testing basis	European KEYMARK Scheme for Heat Pumps Version 12 (2023-03)

Model HPM-V60W/R3

Model name	HPM-V60W/R3
Application	Heating (medium temp)
Units	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	6.45 kW	6.30 kW
El input	1.32 kW	1.97 kW
COP	4.90	3.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	204 %	149 %
Prated	6.10 kW	5.60 kW
SCOP	5.17	3.79
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.51 kW	5.06 kW
COP Tj = -7°C	3.17	2.40
Cdh Tj = -7 °C	0.992	0.993
Pdh Tj = +2°C	3.28 kW	3.03 kW
COP Tj = +2°C	4.91	3.58
Cdh Tj = +2 °C	0.979	0.983
Pdh Tj = +7°C	2.12 kW	1.97 kW

COP Tj = +7°C	7.15	5.06
Cdh Tj = +7 °C	0.953	0.964
Pdh Tj = 12°C	1.70 kW	1.61 kW
COP Tj = 12°C	9.56	7.15
Cdh Tj = +12 °C	0.921	0.938
Pdh Tj = Tbiv	5.51 kW	5.06 kW
COP Tj = Tbiv	3.17	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.18 kW	4.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.99	2.18
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.994
WTOL	75 °C	75 °C
Poff	13 W	13 W
PTO	14 W	14 W
PSB	13 W	13 W
PCK	1 W	1 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.90 kW	0.80 kW
Annual energy consumption Qhe	2440 kWh	3056 kWh