

Subtype Air Source Heat Pump R290-12

Certificate Holder	Chint PVSTAR Energy Solution B.V.
Address	Transformatorweg 38
ZIP	1041AK
City	Amsterdam
Country	NL
Certification Body	BRE Global Limited
Subtype title	Air Source Heat Pump R290-12
Registration number	041-K109-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.05 kg
Certification Date	17.02.2025
Testing basis	HP KEYMARK certification scheme rules rev. no.15

Model PVS-HP 012TC3

Model name	PVS-HP 012TC3
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	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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.09 kW	12.49 kW
El input	2.67 kW	4.26 kW
COP	4.53	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	67 dB(A)	68 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	187 %	145 %
Prated	9.88 kW	9.93 kW
SCOP	4.74	3.70
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.74 kW	8.79 kW
COP Tj = -7°C	3.18	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.54 kW	5.38 kW
COP Tj = +2°C	4.60	3.61
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.50 kW	3.45 kW

COP Tj = +7°C	6.10	4.83
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.10 kW	3.94 kW
COP Tj = 12°C	8.18	6.57
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.74 kW	8.79 kW
COP Tj = Tbiv	3.18	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.83 kW	9.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.70	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	13 W	13 W
PTO	38 W	38 W
PSB	13 W	13 W
PCK	83 W	83 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.05 kW	0.01 kW
Annual energy consumption Qhe	4300 kWh	5547 kWh