

## Subtype Inverter Air Source Heat Pump- R290- 10

Certificate Holder	Guangzhou Dentwiton Manufacture Co., Ltd.
Address	No.3, No. 9, Huasheng Beiroad, Xicheng industry zone, Renhe town, Baiyun district,
ZIP	
City	Guangzhou
Country	CN
Certification Body	BRE Global Limited
Subtype title	Inverter Air Source Heat Pump- R290- 10
Registration number	041-K077-05
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.72 kg
Certification Date	24.11.2023
Testing basis	Heat Pump KEYMARK certification Scheme rules v12

**Model HS10V-QPNNW**

Model name	HS10V-QPNNW
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	6.92 kW	5.37 kW
El input	1.45 kW	2.00 kW
COP	4.76	2.69

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	57 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	186 %	138 %
Prated	6.57 kW	6.38 kW
SCOP	4.73	3.53
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	5.81 kW	5.65 kW
COP Tj = -7°C	3.20	2.52
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.61 kW	3.56 kW
COP Tj = +2°C	4.74	3.15
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.05 kW	3.08 kW

COP Tj = +7°C	6.00	5.25
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.35 kW	3.56 kW
COP Tj = 12°C	7.78	6.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.81 kW	5.65 kW
COP Tj = Tbiv	3.20	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.66 kW	5.41 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.93	2.21
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.91 kW	0.97 kW
Annual energy consumption Qhe	2872 kWh	3734 kWh