

Subtype VS220-DC

Certificate Holder	Heealarx Industry Limited
Address	No. 4 Pingling Road, Tangjiao Village, Cashan Town, 523393 Dongguan City
ZIP	
City	Guangdong
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	VS220-DC
Registration number	011-1W0792
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.6 kg
Certification Date	05.06.2024
Testing basis	HP KEYMARK certification scheme rules V14

**Model VS220-DC**

Model name	VS220-DC
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	3x230V 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	19.50 kW	21.00 kW
El input	4.25 kW	6.66 kW
COP	4.59	3.15

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	74 dB(A)	74 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	176 %	136 %
Prated	16.40 kW	15.40 kW
SCOP	4.48	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.53 kW	13.60 kW
COP Tj = -7°C	3.38	2.56
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.86 kW	8.25 kW
COP Tj = +2°C	4.32	3.32
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	8.24 kW	7.96 kW

COP Tj = +7°C	5.73	4.47
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.69 kW	9.47 kW
COP Tj = 12°C	7.65	6.23
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	14.53 kW	13.60 kW
COP Tj = Tbiv	3.38	2.56
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.20 kW	15.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.13	2.31
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.20 kW	0.33 kW
Annual energy consumption Qhe	7569 kWh	9787 kWh