

Subtype Air to water heat pump 20K

Certificate Holder	Zhongshan Amitime Electric Co., Ltd
Address	5th Yandong Rd
ZIP	
City	Zhongshan City - Guangdong
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Air to water heat pump 20K
Registration number	011-1W1054
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.9 kg
Certification Date	18.06.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14
Testing laboratory	TÜV Rheinland (GuangDong) Ltd., CN

**Model Outdoor unit CAMV-20RGDAG-PM and Indoor unit B-RAG-X02**

Model name	Outdoor unit CAMV-20RGDAG-PM and Indoor unit B-RAG-X02
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	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	13.43 kW	14.00 kW
EI input	2.76 kW	4.45 kW
COP	4.87	3.15

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	209 %	161 %
Prated	15.65 kW	14.43 kW
SCOP	5.29	4.10
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.52 kW	14.58 kW
COP Tj = -7°C	2.91	2.40
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	8.98 kW	8.56 kW
COP Tj = +2°C	5.43	4.05

Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	5.85 kW	5.86 kW
COP Tj = +7°C	6.75	5.46
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	7.21 kW	6.69 kW
COP Tj = 12°C	9.05	7.23
Cdh Tj = +12 °C	0.960	0.960
Pdh Tj = Tbiv	15.65 kW	14.43 kW
COP Tj = Tbiv	2.62	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.65 kW	14.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	2.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	1.000
WTOL	55 °C	55 °C
Poff	20 W	20 W
PTO	33 W	33 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6111 kWh	7270 kWh