Subtype Split Heat Pump 8 10 kW

Certificate Holder	Zhejiang Zhongguang Electrical Co., Ltd.
Address	No. 96 Yunjing Road Shuige Industry Area, Lishui
ZIP	323000
City	Zhejiang
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Split Heat Pump 8 10 kW
Registration number	011-1W0642
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.45 kg
Certification Date	16.06.2023
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 11 (as of 2022-09)

Model Outdoor unit AHbS8VR3H/O and indoor unit AHbS10VR3H/IP	
Model name	Outdoor unit AHbS8VR3H/O and indoor unit AHbS10VR3H/IP
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	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 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	194 %	142 %
Prated	8.22 kW	8.20 kW
SCOP	4.92	3.61
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.24 kW	7.22 kW
COP Tj = -7°C	2.93	2.12
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.81 kW	4.42 kW
COP Tj = +2°C	4.61	3.49
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.16 kW	3.08 kW
COP Tj = +7°C	6.81	4.75
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	3.13 kW	3.25 kW
COP Tj = 12°C	10.98	7.61
Cdh Tj = +12 °C	0.990	0.990

Pdh Tj = Tbiv	7.24 kW	7.22 kW
COP Tj = Tbiv	2.93	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.79 kW	6.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	4 W	4 W
PSB	15 W	15 W
PCK	27 W	27 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.43 kW	1.29 kW
Annual energy consumption Qhe	3440 kWh	4668 kWh

Model Outdoor unit AHbS10VR3H/O and indoor unit AHbS10VR3H/IP	
Model name	Outdoor unit AHbS10VR3H/O and indoor unit AHbS10VR3H/IP
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	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 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	194 %	141 %
Prated	8.90 kW	8.20 kW
SCOP	4.92	3.61
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.89 kW	7.22 kW
COP Tj = -7°C	2.92	2.12
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.81 kW	4.42 kW
COP Tj = +2°C	4.61	3.49
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.16 kW	3.09 kW
COP Tj = +7°C	6.82	4.75
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	3.13 kW	3.25 kW
COP Tj = 12°C	11.00	7.60
Cdh Tj = +12 °C	0.990	0.990

Pdh Tj = Tbiv	7.89 kW	7.22 kW
COP Tj = Tbiv	2.92	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.51 kW	6.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.67	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	4 W	4 W
PSB	15 W	15 W
PCK	27 W	27 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.39 kW	1.29 kW
Annual energy consumption Qhe	3744 kWh	4671 kWh