Subtype Monobloc Heat pump 16KW R290	
Certificate Holder	Foshan Goodheat Technology Ltd
Address	No.5-6, Wusha Xinyue Road
ZIP	528300
City	Shunde, Foshan, Guangdong
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Monobloc Heat pump 16KW R290
Registration number	011-1W1090
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.15 kg
Certification Date	18.09.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14
Testing laboratory	Intertek Testing Services Shenzhen LTD. Guangzhou Branch, CN

Model GSHVSH-16AA1	
Model name	GSHVSH-16AA1
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	16.00 kW	15.40 kW
El input	3.55 kW	5.10 kW
COP	4.51	3.02

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	194 %	142 %
Prated	13.50 kW	13.40 kW
SCOP	4.92	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.01 kW	11.94 kW
COP Tj = -7°C	3.05	2.22
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	7.46 kW	7.44 kW
COP Tj = +2°C	4.80	3.47
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	6.30 kW	6.03 kW

COP Tj = +7°C	6.47	4.90
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	7.13 kW	7.03 kW
COP Tj = 12°C	8.24	6.48
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	12.01 kW	11.94 kW
COP Tj = Tbiv	3.05	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.86 kW	12.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	75 °C	75 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	45 W	45 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.64 kW	0.44 kW
Annual energy consumption Qhe	5695 kWh	7691 kWh

Model GSHVTH-16AA1	
Model name	GSHVTH-16AA1
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	16.00 kW	15.40 kW
El input	3.55 kW	5.10 kW
COP	4.51	3.02

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	194 %	146 %
Prated	13.70 kW	13.60 kW
SCOP	4.92	3.72
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.01 kW	11.94 kW
COP Tj = -7°C	3.05	2.22
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	7.46 kW	7.44 kW
COP Tj = +2°C	4.80	3.47
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	6.30 kW	6.03 kW

COP Tj = +7°C	6.47	4.90
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	7.13 kW	7.03 kW
COP Tj = 12°C	8.24	6.48
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	12.01 kW	11.94 kW
COP Tj = Tbiv	3.05	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.86 kW	12.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	75 °C	75 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	45 W	45 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.84 kW	0.64 kW
Annual energy consumption Qhe	5695 kWh	7691 kWh