Subtype ThermaX Split 8/10KW	
Certificate Holder	GD Shenling Thermal Tech Co., Ltd
Address	No.29 Shunye East Rd.
ZIP	528325
City	Foshan
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	ThermaX Split 8/10KW
Registration number	011-1W0679
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.58 kg
Certification Date	20.09.2023
Testing basis	HP KEYMARK certification scheme rules V12

Model OU: HPS-V80W/R2 + IU: HM-100/DR2	
Model name	OU: HPS-V80W/R2 + IU: HM-100/DR2
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 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8.40 kW	8.35 kW
El input	1.73 kW	2.78 kW
COP	4.85	3.00

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	193 %	142 %
Prated	7.80 kW	7.30 kW
SCOP	4.90	3.63
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.66 kW
COP Tj = -7°C	3.04	2.30
Cdh Tj = -7 °C	0.992	0.994
Pdh Tj = +2°C	4.33 kW	3.94 kW
COP Tj = +2°C	4.71	3.51
Cdh Tj = +2 °C	0.980	0.984

Pdh Tj = +7°C	2.64 kW	2.45 kW
COP Tj = +7°C	6.63	4.71
Cdh Tj = +7 °C	0.955	0.965
Pdh Tj = 12°C	1.94 kW	1.81 kW
COP Tj = 12°C	8.51	6.27
Cdh Tj = +12 °C	0.921	0.938
Pdh Tj = Tbiv	6.98 kW	6.66 kW
COP Tj = Tbiv	3.04	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.56 kW	6.16 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.02
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.994
WTOL	63 °C	63 °C
Poff	12 W	12 W
PTO	18 W	18 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.20 kW	1.10 kW
Annual energy consumption Qhe	3288 kWh	4158 kWh

Model OU: HPS-V100W/R2 + IU: HM-100/DR2	
Model name	OU: HPS-V100W/R2 + IU: HM-100/DR2
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 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	10.00 kW	9.50 kW
El input	2.17 kW	3.22 kW
COP	4.60	2.95

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	190 %	142 %
Prated	9.10 kW	8.20 kW
SCOP	4.83	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.11 kW	7.26 kW
COP Tj = -7°C	2.97	2.27
Cdh Tj = -7 °C	0.993	0.994
Pdh Tj = +2°C	4.82 kW	4.39 kW
COP Tj = +2°C	4.55	3.45
Cdh Tj = +2 °C	0.983	0.986

Pdh Tj = +7°C	3.21 kW	2.87 kW
COP Tj = +7°C	6.77	4.89
Cdh Tj = +7 °C	0.962	0.969
Pdh Tj = 12°C	1.94 kW	1.81 kW
COP Tj = 12°C	8.63	6.33
Cdh Tj = +12 °C	0.920	0.937
Pdh Tj = Tbiv	8.11 kW	7.26 kW
COP Tj = Tbiv	2.97	2.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.87 kW	6.82 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	63 °C	63 °C
Poff	12 W	12 W
PTO	18 W	18 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.20 kW	1.40 kW
Annual energy consumption Qhe	3895 kWh	4676 kWh