

## Subtype Monobloc Heat pump 12KW

Certificate Holder	Guangdong Carrier Heating, Ventilation & Air Conditioning Company Limited
Address	No.28-5, Eastern Industrial Park, Lishui Town, Nanhai District
ZIP	528244 Foshan
City	Guangdong
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Monobloc Heat pump 12KW
Registration number	011-1W0694
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.2 kg
Certification Date	09.10.2023
Testing basis	HP KEYMARK certification scheme rules V12

## Model CE-HRDL-12/BPDSR4Y-H9-080

Model name	CE-HRDL-12/BPDSR4Y-H9-080
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	12.00 kW	11.50 kW
El input	2.50 kW	4.04 kW
COP	4.80	2.85

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	193 %	133 %
Prated	11.94 kW	11.96 kW
SCOP	4.91	3.39
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.56 kW	10.58 kW
COP Tj = -7°C	3.02	2.08
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.65 kW	6.57 kW
COP Tj = +2°C	4.62	3.14
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.28 kW	4.90 kW

COP Tj = +7°C	6.88	5.01
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.50 kW	5.10 kW
COP Tj = 12°C	10.49	7.42
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.56 kW	10.58 kW
COP Tj = Tbiv	3.02	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.87 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	62 °C	62 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.07 kW	2.96 kW
Annual energy consumption Qhe	4983 kWh	7222 kWh

## Model CE-HRDL-12/BPDR4Y-H9-080

Model name	CE-HRDL-12/BPDR4Y-H9-080
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	12.00 kW	11.50 kW
El input	2.50 kW	4.04 kW
COP	4.80	2.85

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	193 %	133 %
Prated	11.94 kW	11.96 kW
SCOP	4.91	3.39
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.56 kW	10.58 kW
COP Tj = -7°C	3.02	2.08
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.65 kW	6.57 kW
COP Tj = +2°C	4.62	3.14
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.28 kW	4.90 kW

COP Tj = +7°C	6.88	5.01
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.50 kW	5.10 kW
COP Tj = 12°C	10.49	7.42
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.56 kW	10.58 kW
COP Tj = Tbiv	3.02	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.87 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	62 °C	62 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.07 kW	2.96 kW
Annual energy consumption Qhe	4983 kWh	7222 kWh