

Subtype Monobloc Heat pump 14/16KW

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 14/16KW
Registration number	011-1W0695
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.6 kg
Certification Date	09.10.2023
Testing basis	HP KEYMARK certification scheme rules V12

**Model CE-HRDL-14/BPDR4Y-H9-080**

Model name	CE-HRDL-14/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	14.00 kW	12.00 kW
El input	2.98 kW	4.36 kW
COP	4.70	2.75

**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
$\eta_s$	195 %	134 %
Prated	14.03 kW	11.99 kW
SCOP	4.94	3.42
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.41 kW	10.61 kW
COP Tj = -7°C	3.00	2.04
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.51 kW	6.57 kW
COP Tj = +2°C	4.70	3.17
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.11 kW	4.36 kW

COP Tj = +7°C	6.90	4.90
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.64 kW	4.35 kW
COP Tj = 12°C	9.50	7.72
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.41 kW	10.61 kW
COP Tj = Tbiv	3.00	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.89 kW	10.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.78
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	2.14 kW	1.65 kW
Annual energy consumption Qhe	5789 kWh	7204 kWh

**Model CE-HRDL-14/BPDSR4Y-H9-080**

Model name	CE-HRDL-14/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
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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	13.50 kW
El input	3.44 kW	5.00 kW
COP	4.65	2.70

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	70 dB(A)	70 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	188 %	131 %
Prated	14.79 kW	13.06 kW
SCOP	4.78	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.08 kW	11.55 kW
COP Tj = -7°C	2.93	2.00
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.25 kW	7.13 kW
COP Tj = +2°C	4.52	3.13
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.60 kW	4.53 kW

COP Tj = +7°C	6.39	4.78
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.64 kW	4.35 kW
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Cdh Tj = +12 °C	0.900	0.900
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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	2.13 kW	2.56 kW
Annual energy consumption Qhe	6392 kWh	7948 kWh

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COP Tj = Tbiv	2.93	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.66 kW	10.50 kW
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