

Subtype Inverter Heat Pump-Mono System 180

Certificate Holder	Lailey and Coates International Limited
Address	No.128 ShaGangWest Road
ZIP	528477
City	GuangDong
Country	CN
Certification Body	BRE Global Limited
Subtype title	Inverter Heat Pump-Mono System 180
Registration number	041-K039-04
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.8 kg
Certification Date	18.11.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 11
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model Outdoor Unit: LCM-180R; Indoor Unit: LCM-R

Model name	Outdoor Unit: LCM-180R; Indoor Unit: LCM-R
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	18.06 kW	16.93 kW
El input	4.01 kW	5.73 kW
COP	4.50	2.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	67 dB(A)	68 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	180 %	135 %
Prated	11.75 kW	10.32 kW
SCOP	4.58	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.39 kW	9.13 kW
COP Tj = -7°C	2.84	1.83
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.01 kW	6.52 kW
COP Tj = +2°C	4.32	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	7.49 kW	7.47 kW

COP Tj = +7°C	6.35	4.96
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	8.53 kW	8.29 kW
COP Tj = 12°C	8.25	6.92
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	10.39 kW	9.13 kW
COP Tj = Tbiv	2.84	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.75 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.54	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	59 °C	59 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	1.01 kW
Annual energy consumption Qhe	5302 kWh	6204 kWh