

Subtype Inverter Heat Pump-Mono System 100

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 100
Registration number	041-K039-02
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2 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-100R; Indoor Unit: LCM-R

Model name	Outdoor Unit: LCM-100R; 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	9.76 kW	8.28 kW
El input	2.17 kW	2.98 kW
COP	4.51	2.78

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
η_s	177 %	134 %
Prated	6.54 kW	6.08 kW
SCOP	4.50	3.43
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.79 kW	5.38 kW
COP Tj = -7°C	2.67	1.89
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.14 kW	3.69 kW
COP Tj = +2°C	4.35	3.38
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.21 kW	4.13 kW

COP Tj = +7°C	6.09	4.68
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	3.78 kW	4.91 kW
COP Tj = 12°C	8.20	6.71
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	5.79 kW	5.38 kW
COP Tj = Tbiv	2.67	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.02 kW	5.28 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	59 °C	59 °C
Poff	8 W	8 W
PTO	8 W	8 W
PSB	8 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.53 kW	0.80 kW
Annual energy consumption Qhe	3002 kWh	3662 kWh