

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

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 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