

Subtype R32 monobloc 51 kW

Certificate Holder	LG Electronics Inc.
Address	84, Wanam-ro, seongsan-gu
ZIP	51554
City	Changwon-si
Country	KR
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	R32 monobloc 51 kW
Registration number	011-1W1049
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	10 kg
Certification Date	21.05.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14

**Model HM513MR UXC0 / PHCSL0 ENCXLEU**

Model name	HM513MR UXC0 / PHCSL0 ENCXLEU
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	51.00 kW	51.00 kW
El input	11.86 kW	17.71 kW
COP	4.30	2.88

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	82 dB(A)	82 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	167 %	125 %
Prated	42.00 kW	40.00 kW
SCOP	4.26	3.21
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	36.90 kW	35.40 kW
COP Tj = -7°C	2.57	1.89
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	22.60 kW	21.00 kW
COP Tj = +2°C	4.00	2.99
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	14.50 kW	13.90 kW

COP Tj = +7°C	6.19	4.78
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	9.00 kW	9.00 kW
COP Tj = 12°C	6.69	5.41
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	42.00 kW	40.00 kW
COP Tj = Tbiv	2.51	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	42.00 kW	40.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	1.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	20379 kWh	25779 kWh