

Subtype R32 monobloc(2nd) 5 7 9 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(2nd) 5 7 9 kW
Registration number	011-1W0471
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.4 kg
Certification Date	05.07.2021
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 11

Model HM051MR U44

Model name	HM051MR U44
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	5.50 kW	5.50 kW
El input	1.17 kW	2.04 kW
COP	4.70	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	125 %
Prated	5.50 kW	7.00 kW
SCOP	4.46	3.20
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.90 kW	5.90 kW
COP Tj = -7°C	2.90	2.07
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.00 kW	3.60 kW
COP Tj = +2°C	4.20	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.60 kW	2.90 kW

COP Tj = +7°C	6.20	4.18
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.70 kW	3.30 kW
COP Tj = 12°C	8.80	6.26
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.50 kW	5.90 kW
COP Tj = Tbiv	2.57	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	6.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
PTO	20 W	20 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	0.30 kW
Annual energy consumption Qhe	2548 kWh	4324 kWh

Model HM071MR U44

Model name	HM071MR U44
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	7.00 kW	5.50 kW
El input	1.49 kW	2.04 kW
COP	4.70	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	176 %	125 %
Prated	6.00 kW	7.00 kW
SCOP	4.48	3.20
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.10 kW	6.00 kW
COP Tj = -7°C	2.96	2.04
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.10 kW	3.70 kW
COP Tj = +2°C	4.13	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.60 kW	3.10 kW

COP Tj = +7°C	6.34	4.25
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.80 kW	3.30 kW
COP Tj = 12°C	9.00	6.26
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.80 kW	6.00 kW
COP Tj = Tbiv	2.61	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.80 kW	6.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.61	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
PTO	20 W	20 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.20 kW	0.20 kW
Annual energy consumption Qhe	2654 kWh	4386 kWh

Model HM091MR U44

Model name	HM091MR U44
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	9.00 kW	5.50 kW
El input	1.96 kW	2.04 kW
COP	4.60	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	179 %	125 %
Prated	6.00 kW	7.00 kW
SCOP	4.55	3.20
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.30 kW	6.10 kW
COP Tj = -7°C	2.87	1.96
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.20 kW	3.70 kW
COP Tj = +2°C	4.25	3.16
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.60 kW	3.50 kW

COP Tj = +7°C	6.50	4.25
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.80 kW	3.30 kW
COP Tj = 12°C	9.00	6.26
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.00 kW	6.10 kW
COP Tj = Tbiv	2.47	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	6.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	1.75
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
PTO	20 W	20 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	2727 kWh	4448 kWh

Model HM093MR U44

Model name	HM093MR U44
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	9.00 kW	5.50 kW
El input	1.96 kW	2.04 kW
COP	4.60	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	179 %	125 %
Prated	6.00 kW	7.00 kW
SCOP	4.55	3.20
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.30 kW	6.10 kW
COP Tj = -7°C	2.87	1.96
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.20 kW	3.70 kW
COP Tj = +2°C	4.25	3.16
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.60 kW	3.50 kW

COP Tj = +7°C	6.50	4.25
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.80 kW	3.30 kW
COP Tj = 12°C	9.00	6.26
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.00 kW	6.10 kW
COP Tj = Tbiv	2.47	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	6.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	1.75
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
PTO	20 W	20 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	2727 kWh	4448 kWh