Login

Summary of	R32 monobloc(2nd) 5 7 9 kW	Reg. No.	011-1W0471
Certificate Holder			
Name	LG Electronics Inc.		
Address	84, Wanam-ro, seongsan-gu	Zip	51554
City	Changwon-si	Country	South Korea
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	R32 monobloc(2nd) 5 7 9 kW		
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. 9 (as of 2021-03)		

Model: HM051MR U44

Configure model	
Model name	HM051MR U44
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
η_s	175 %	125 %
Prated	6.00 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	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.30 kW
Annual energy consumption Qhe	2548 kWh	4324 kWh

Model: HM071MR U44

Configure model	
Model name	HM071MR U44
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1

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

EN 14825

	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

Configure model	
Model name	HM091MR U44
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1

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

EN 14825

	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