Login

Summary of	R32 monobloc 5 7 9 kW	Reg. No.	011-1W0243
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 5 7 9 kW		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.4 kg		
Certification Date	09.04.2018		

Model: HM091M U43

Configure model	
Model name	HM091M U43
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	2.15 kW	2.04 kW
COP	4.18	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	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	175 %	122 %
Prated	6.00 kW	5.00 kW
SCOP	4.45	3.12
Tbiv	-7 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	5.31 kW	4.87 kW
COP Tj = -7°C	2.70	1.76
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.15 kW	2.96 kW
COP Tj = +2°C	4.21	3.09
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.50 kW	3.10 kW
COP Tj = +7°C	6.57	4.60
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	3.10 kW	3.80 kW

COP Tj = 12°C	9.40	6.72
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.31 kW	4.87 kW
COP Tj = Tbiv	2.70	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °C
Poff	30 W	30 W
PTO	30 W	30 W
PSB	30 W	30 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	
Supplementary Heater: PSUP	0.40 kW	0.00 kW
Annual energy consumption Qhe	2784 kWh	3638 kWh

Model: HM071M U43

Configure model	
Model name	HM071M U43
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	1.56 kW	2.04 kW
COP	4.50	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	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	175 %	122 %
Prated	6.00 kW	5.00 kW
SCOP	4.45	3.12
Tbiv	-7 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	5.09 kW	4.87 kW
COP Tj = -7°C	2.70	1.76
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.10 kW	2.96 kW
COP Tj = +2°C	4.30	3.09
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.40 kW	3.10 kW
COP Tj = +7°C	6.35	4.60
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.95 kW	3.80 kW

COP Tj = 12°C	9.00	6.72
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.09 kW	4.87 kW
COP Tj = Tbiv	2.70	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.30 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °C
Poff	30 W	30 W
PTO	30 W	30 W
PSB	30 W	30 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	
Supplementary Heater: PSUP	0.70 kW	0.00 kW
Annual energy consumption Qhe	2668 kWh	3638 kWh

Model: HM051M U43

Configure model	
Model name	HM051M U43
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	1.22 kW	2.04 kW
COP	4.50	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	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	175 %	122 %
Prated	5.00 kW	5.00 kW
SCOP	4.45	3.12
Tbiv	-7 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.87 kW	4.87 kW
COP Tj = -7°C	2.70	1.76
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	2.96 kW	2.96 kW
COP Tj = +2°C	4.35	3.09
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.30 kW	3.10 kW
COP Tj = +7°C	6.20	4.60
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.80 kW	3.80 kW

COP Tj = 12°C	9.00	6.72
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	4.87 kW	4.87 kW
COP Tj = Tbiv	2.70	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °C
Poff	30 W	30 W
PTO	30 W	30 W
PSB	30 W	30 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2551 kWh	3638 kWh