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Summary of	R32 monobloc(2nd) 12 14 16 kW 1&3 phase	Reg. No.	011-1W0470		
Certificate Holder	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) 12 14 16 kW 1&3 phase				
Heat Pump Type	Outdoor Air/Water				
Refrigerant	R32				
Mass of Refrigerant	2 kg				
Certification Date	05.07.2021				
Testing basis	European KEYMARK Scheme for Heat Pumps Rev.8 (2020-09)				

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Model: HM121MR U34

Configure model			
Model name	HM121MR U34		
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	12.00 kW	11.00 kW
El input	2.45 kW	3.79 kW
СОР	4.90	2.90

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	184 %	136 %	
Prated	12.00 kW	12.00 kW	
SCOP	4.67	3.47	
Tbiv	-10 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	10.20 kW	10.20 kW	
COP Tj = -7°C	3.10	2.07	
Cdh Tj = -7 °C	0.900	0.900	
Pdh Tj = +2°C	6.20 kW	6.30 kW	
COP Tj = +2°C	4.39	3.38	
Cdh Tj = +2 °C	0.900	0.900	
Pdh Tj = +7°C	4.50 kW	4.60 kW	
COP Tj = +7°C	6.40	4.64	
Cdh Tj = +7 °C	0.900	0.900	
Pdh Tj = 12°C	5.20 kW	4.60 kW	



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COP Tj = 12°C	8.50	6.79
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.50 kW	10.20 kW
COP Tj = Tbiv	2.55	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.50 kW	10.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
РТО	30 W	30 W
PSB	10 W	10 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	1.20 kW
Annual energy consumption Qhe	5086 kWh	6882 kWh



Model: HM123MR U34

Configure model			
Model name	HM123MR U34		
Application	Heating (medium temp)		
Units	Outdoor		
Climate Zone	n/a		
Reversibility	No		
Cooling mode application (optional)	n/a		

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.00 kW	11.00 kW
El input	2.45 kW	3.79 kW
СОР	4.90	2.90

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	184 %	136 %	
Prated	12.00 kW	12.00 kW	
SCOP	4.67	3.47	
Tbiv	-10 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	10.20 kW	10.20 kW	
COP Tj = -7°C	3.10	2.07	
Cdh Tj = -7 °C	0.900	0.900	
Pdh Tj = +2°C	6.20 kW	6.30 kW	
COP Tj = +2°C	4.39	3.38	
Cdh Tj = +2 °C	0.900	0.900	
Pdh Tj = +7°C	4.50 kW	4.60 kW	
COP Tj = +7°C	6.40	4.64	
Cdh Tj = +7 °C	0.900	0.900	
Pdh Tj = 12°C	5.20 kW	4.60 kW	



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COP Tj = 12°C	8.50	6.79
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.50 kW	10.20 kW
COP Tj = Tbiv	2.55	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.50 kW	10.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
РТО	30 W	30 W
PSB	10 W	10 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	1.20 kW
Annual energy consumption Qhe	5086 kWh	6882 kWh

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Model: HM141MR U34

Configure model			
Model name	HM141MR U34		
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	14.00 kW	11.50 kW	
El input	2.92 kW	4.04 kW	
СОР	4.80	2.85	

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	61 dB(A)	61 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
η _s	182 %	135 %	
Prated	12.00 kW	12.00 kW	
SCOP	4.62	3.46	
Tbiv	-10 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	10.60 kW	10.40 kW	
COP Tj = -7°C	3.10	2.11	
Cdh Tj = -7 °C	0.900	0.900	
Pdh Tj = +2°C	6.50 kW	6.30 kW	
COP Tj = +2°C	4.40	3.35	
Cdh Tj = +2 °C	0.900	0.900	
Pdh Tj = +7°C	4.60 kW	4.70 kW	
COP Tj = +7°C	6.10	4.66	
Cdh Tj = +7 °C	0.900	0.900	
Pdh Tj = 12°C	5.30 kW	4.60 kW	



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COP Tj = 12°C	8.40	6.62
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.40 kW
COP Tj = Tbiv	2.50	2.11
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.00 kW	10.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
РТО	30 W	30 W
PSB	10 W	10 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	1.10 kW
Annual energy consumption Qhe	5362 kWh	7016 kWh



Model: HM143MR U34

Configure model		
Model name	HM143MR U34	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.00 kW	11.50 kW
El input	2.92 kW	4.04 kW
СОР	4.80	2.85

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	182 %	135 %
Prated	12.00 kW	12.00 kW
SCOP	4.62	3.46
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.60 kW	10.40 kW
COP Tj = -7°C	3.10	2.11
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.50 kW	6.30 kW
COP Tj = +2°C	4.40	3.35
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.60 kW	4.70 kW
COP Tj = +7°C	6.10	4.66
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.30 kW	4.60 kW



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COP Tj = 12°C	8.40	6.62
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	10.40 kW
COP Tj = Tbiv	2.50	2.11
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.00 kW	10.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
РТО	30 W	30 W
PSB	10 W	10 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	1.10 kW
Annual energy consumption Qhe	5362 kWh	7016 kWh



Model: HM163MR U34

Configure model		
Model name	HM163MR U34	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	16.00 kW	12.00 kW
El input	3.40 kW	4.29 kW
СОР	4.70	2.80

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η _s	178 %	135 %	
Prated	12.00 kW	12.00 kW	
SCOP	4.53	3.45	
Tbiv	-10 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	10.90 kW	10.70 kW	
COP Tj = -7°C	3.09	2.13	
Cdh Tj = -7 °C	0.900	0.900	
Pdh Tj = +2°C	6.60 kW	6.50 kW	
COP Tj = +2°C	4.33	3.34	
Cdh Tj = +2 °C	0.900	0.900	
Pdh Tj = +7°C	5.00 kW	5.20 kW	
COP Tj = +7°C	5.90	4.65	
Cdh Tj = +7 °C	0.900	0.900	
Pdh Tj = 12°C	5.30 kW	4.60 kW	



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COP Tj = 12°C	8.15	6.58
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.30 kW	10.60 kW
COP Tj = Tbiv	2.50	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.30 kW	11.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
РТО	30 W	30 W
PSB	10 W	10 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	5604 kWh	7213 kWh



Model: HM161MR U34

Configure model			
Model name	HM161MR U34		
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 14511-4			
Shutting off the heat transfer medium flow	passed		
Complete power supply failure	passed		
Defrost test	passed		
Starting and operating test	passed		

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	16.00 kW	12.00 kW	
El input	3.40 kW	4.29 kW	
СОР	4.70	2.80	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η _s	178 %	135 %	
Prated	12.00 kW	12.00 kW	
SCOP	4.53	3.45	
Tbiv	-10 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	10.90 kW	10.70 kW	
COP Tj = -7°C	3.09	2.13	
Cdh Tj = -7 °C	0.900	0.900	
Pdh Tj = +2°C	6.60 kW	6.50 kW	
COP Tj = +2°C	4.33	3.34	
Cdh Tj = +2 °C	0.900	0.900	
Pdh Tj = +7°C	5.00 kW	5.20 kW	
COP Tj = +7°C	5.90	4.65	
Cdh Tj = +7 °C	0.900	0.900	
Pdh Tj = 12°C	5.30 kW	4.60 kW	



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COP Tj = 12°C	8.15	6.58
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.30 kW	10.60 kW
COP Tj = Tbiv	2.50	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.30 kW	11.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
РТО	30 W	30 W
PSB	10 W	10 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	5604 kWh	7213 kWh