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Summary of	R32 monobloc 12 14 16 kW 1 phase & 3 phases	Reg. No.	011-1W0244
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 12 14 16 kW 1 phase & 3 phases		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	2.4 kg		
Certification Date	04.04.2018		

Model: HM163M U33

Configure model	
Model name	HM163M U33
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	16.00 kW	12.00 kW
El input	3.64 kW	4.29 kW
COP	4.40	2.80

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

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	dB(A)	dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	124 %
Prated	11.00 kW	12.00 kW
SCOP	4.45	3.18
Tbiv	-10 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	9.70 kW	10.60 kW
COP Tj = -7°C	2.90	1.93
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	5.90 kW	6.50 kW
COP Tj = +2°C	4.38	3.00
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	6.70 kW	6.30 kW
COP Tj = +7°C	6.24	4.80
Cdh Tj = +7 °C	0.90	0.90

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Pdh Tj = 12°C	8.10 kW	7.70 kW
COP Tj = 12°C	8.30	7.00
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	11.00 kW	10.60 kW
COP Tj = Tbiv	2.50	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.00 kW	10.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °C
Poff	60 W	60 W
PTO	60 W	60 W
PSB	60 W	60 W
PCK	50 W	50 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	2.00 kW
Annual energy consumption Qhe	5103 kWh	7795 kWh

Model: HM143M U33

Configure model	
Model name	HM143M U33
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	12.00 kW
El input	3.11 kW	4.29 kW
COP	4.50	2.80

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

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	124 %
Prated	11.00 kW	12.00 kW
SCOP	4.45	3.18
Tbiv	-10 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	9.30 kW	10.60 kW
COP Tj = -7°C	2.90	1.93
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	5.70 kW	6.50 kW
COP Tj = +2°C	4.38	3.00
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	6.50 kW	6.30 kW
COP Tj = +7°C	6.24	4.80
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	7.70 kW	7.70 kW

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COP Tj = 12°C	8.30	7.00
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	10.50 kW	10.60 kW
COP Tj = Tbiv	2.50	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	10.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °C
Poff	60 W	60 W
PTO	60 W	60 W
PSB	60 W	60 W
PCK	50 W	50 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	2.00 kW
Annual energy consumption Qhe	4875 kWh	7795 kWh

Model: HM123M U33

Configure model	
Model name	HM123M U33
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	12.00 kW
El input	2.61 kW	4.29 kW
COP	4.60	2.80

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

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	124 %
Prated	10.00 kW	12.00 kW
SCOP	4.45	3.18
Tbiv	-10 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	8.80 kW	10.60 kW
COP Tj = -7°C	2.90	1.93
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	5.40 kW	6.50 kW
COP Tj = +2°C	4.38	3.00
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	6.10 kW	6.30 kW
COP Tj = +7°C	6.24	4.80
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	7.40 kW	7.70 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = 12°C	8.30	7.00
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	10.00 kW	10.60 kW
COP Tj = Tbiv	2.50	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.00 kW	10.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °C
Poff	60 W	60 W
PTO	60 W	60 W
PSB	60 W	60 W
PCK	50 W	50 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	2.00 kW
Annual energy consumption Qhe	4642 kWh	7795 kWh

Model: HM161M U33

Configure model	
Model name	HM161M U33
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	16.00 kW	12.00 kW
El input	3.64 kW	4.29 kW
COP	4.40	2.80

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

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	124 %
Prated	11.00 kW	12.00 kW
SCOP	4.45	3.18
Tbiv	-10 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	9.70 kW	10.60 kW
COP Tj = -7°C	2.90	1.93
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	5.90 kW	6.50 kW
COP Tj = +2°C	4.38	3.00
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	6.70 kW	6.30 kW
COP Tj = +7°C	6.24	4.80
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	8.10 kW	7.70 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = 12°C	8.30	7.00
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	11.00 kW	10.60 kW
COP Tj = Tbiv	2.50	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.00 kW	10.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °C
Poff	60 W	60 W
PTO	60 W	60 W
PSB	60 W	60 W
PCK	50 W	50 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	2.00 kW
Annual energy consumption Qhe	5103 kWh	7795 kWh

Model: HM141M U33

Configure model	
Model name	HM141M U33
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	12.00 kW
El input	3.11 kW	4.29 kW
COP	4.50	2.80

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	63 dB(A)	63 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	124 %
Prated	11.00 kW	12.00 kW
SCOP	4.45	3.18
Tbiv	-10 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	9.30 kW	10.60 kW
COP Tj = -7°C	2.90	1.93
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	5.70 kW	6.50 kW
COP Tj = +2°C	4.38	3.00
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	6.50 kW	6.30 kW
COP Tj = +7°C	6.24	4.80
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	7.70 kW	7.70 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = 12°C	8.30	7.00
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	10.50 kW	10.60 kW
COP Tj = Tbiv	2.50	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	10.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °C
Poff	60 W	60 W
PTO	60 W	60 W
PSB	60 W	60 W
PCK	50 W	50 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	2.00 kW
Annual energy consumption Qhe	4875 kWh	7795 kWh

Model: HM121M U33

Configure model	
Model name	HM121M U33
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	12.00 kW
El input	2.61 kW	4.29 kW
COP	4.60	2.80

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	63 dB(A)	63 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	124 %
Prated	10.00 kW	12.00 kW
SCOP	4.45	3.18
Tbiv	-10 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	8.80 kW	10.60 kW
COP Tj = -7°C	2.90	1.93
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	5.40 kW	6.50 kW
COP Tj = +2°C	4.38	3.00
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	6.10 kW	6.30 kW
COP Tj = +7°C	6.24	4.80
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	7.40 kW	7.70 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = 12°C	8.30	7.00
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	10.00 kW	10.60 kW
COP Tj = Tbiv	2.50	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.00 kW	10.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °C
Poff	60 W	60 W
PTO	60 W	60 W
PSB	60 W	60 W
PCK	50 W	50 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	2.00 kW
Annual energy consumption Qhe	4642 kWh	7795 kWh