

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	split mid temperature 5 7 9 kW	Reg. No.	011-1W0252
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		
Name of testing laboratory	TÜV Rheinland Energy GmbH		
Subtype title	split mid temperature 5 7 9 kW		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	1.8 kg		
Certification Date	31.07.2019		

Model: HU091 U43 / HN1616 NK3

General Data

Power supply	1x230V 50Hz
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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	9.17 kW	7.56 kW
El input	2.04 kW	2.74 kW
COP	4.49	2.76
Indoor water flow rate	1.54 m ³ /h	0.82 m ³ /h

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	171 %	126 %
Prated	7.00 kW	6.00 kW
SCOP	4.55	3.29
Tbiv	-7 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	5.80 kW	5.00 kW
COP Tj = -7°C	2.55	2.05
Cdh	0.90	0.90
Pdh Tj = +2°C	3.50 kW	3.00 kW
COP Tj = +2°C	3.90	3.00
Cdh	0.90	0.90
Pdh Tj = +7°C	2.40 kW	1.90 kW
COP Tj = +7°C	7.00	4.40
Cdh	0.90	0.90

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Pdh Tj = 12°C	2.50 kW	2.40 kW
COP Tj = 12°C	9.87	7.10
Cdh	0.90	0.90
Pdh Tj = Tbiv	5.80 kW	5.60 kW
COP Tj = Tbiv	2.55	1.80
Pdh Tj = TOL	5.60 kW	5.60 kW
COP Tj = TOL	1.90	1.80
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	9 W	9 W
PTO	16 W	16 W
PSB	9 W	9 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	1.40 kW	0.40 kW
Annual energy consumption Qhe	3093 kWh	3581 kWh

Model: HU071 U43 / HN1616 NK3

General Data

Power supply	1x230V 50Hz
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Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	126 %
Prated	6.00 kW	6.00 kW
SCOP	4.65	3.29
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	5.30 kW	5.00 kW
COP Tj = -7°C	2.75	2.05
Cdh	0.90	0.90
Pdh Tj = +2°C	3.20 kW	3.00 kW
COP Tj = +2°C	4.03	3.00

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Cdh	0.90	0.90
Pdh Tj = +7°C	2.40 kW	1.90 kW
COP Tj = +7°C	6.90	4.40
Cdh	0.90	0.90
Pdh Tj = 12°C	2.60 kW	2.40 kW
COP Tj = 12°C	9.60	7.10
Cdh	0.90	0.90
Pdh Tj = Tbiv	6.00 kW	5.60 kW
COP Tj = Tbiv	1.90	1.80
Pdh Tj = TOL	6.00 kW	5.60 kW
COP Tj = TOL	1.90	1.80
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	9 W	9 W
PTO	16 W	16 W
PSB	9 W	9 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	N/A	electric
Supplementary Heater: PSUP	0.00 kW	0.40 kW
Annual energy consumption Qhe	2783 kWh	3581 kWh

Heating

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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	7.16 kW	7.56 kW
El input	1.48 kW	2.74 kW
COP	4.83	2.76
Indoor water flow rate	1.19 m ³ /h	0.82 m ³ /h

Model: HU051 U43 / HN1616 NK3

General Data

Power supply	1x230V 50Hz
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Average Climate

EN 14825

	Low temperature	Medium temperature
η_s	178 %	126 %
Prated	6.00 kW	6.00 kW
SCOP	4.52	3.23
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.87 kW	4.95 kW
COP Tj = -7°C	3.00	2.05
Cdh	0.90	0.90
Pdh Tj = +2°C	2.96 kW	3.02 kW
COP Tj = +2°C	4.10	3.00
Cdh	0.90	0.90
Pdh Tj = +7°C	2.39 kW	1.94 kW
COP Tj = +7°C	6.75	4.40
Cdh	0.90	0.90
Pdh Tj = 12°C	2.54 kW	2.37 kW

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COP Tj = 12°C	9.40	7.10
Cdh	0.90	0.90
Pdh Tj = Tbiv	5.50 kW	5.60 kW
COP Tj = Tbiv	1.90	1.80
Pdh Tj = TOL	5.50 kW	5.60 kW
COP Tj = TOL	1.90	1.80
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	9 W	9 W
PTO	16 W	16 W
PSB	9 W	9 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.50 kW	0.40 kW
Annual energy consumption Qhe	2512 kWh	3581 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

Heating

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	5.20 kW	7.56 kW
El input	1.03 kW	2.74 kW
COP	5.04	2.76
Indoor water flow rate	0.85 m ³ /h	0.82 m ³ /h