Login

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		
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

Configure model	
Model name	HU091 U43 / HN1616 NK3
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz
Phase-out Date	03.02.2024

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

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	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 Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.50 kW	3.00 kW
COP Tj = +2°C	3.90	3.00
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.40 kW	1.90 kW
COP Tj = +7°C	7.00	4.40
Cdh Tj = +7 °C	0.90	0.90

Pdh Tj = 12°C	2.50 kW	2.40 kW
COP Tj = 12°C	9.87	7.10
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.80 kW	5.60 kW
COP Tj = Tbiv	2.55	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
Supplementary Heater: PSUP	1.40 kW	0.40 kW
Annual energy consumption Qhe	3093 kWh	3581 kWh

Model: HU071 U43 / HN1616 NK3

Configure model	
Model name	HU071 U43 / HN1616 NK3
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz
Phase-out Date	03.02.2024

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 Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.20 kW	3.00 kW
COP Tj = +2°C	4.03	3.00
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.40 kW	1.90 kW
COP Tj = +7°C	6.90	4.40
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.60 kW	2.40 kW
COP Tj = 12°C	9.60	7.10
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	6.00 kW	5.60 kW
COP Tj = Tbiv	1.90	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	5.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	Electricity
Supplementary Heater: PSUP	0.00 kW	0.40 kW
Annual energy consumption Qhe	2783 kWh	3581 kWh

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	7.16 kW	7.56 kW
El input	1.48 kW	2.74 kW
COP	4.83	2.76

Model: HU051 U43 / HN1616 NK3

Configure model	
Model name	HU051 U43 / HN1616 NK3
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz
Phase-out Date	03.02.2024

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 Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	2.96 kW	3.02 kW
COP Tj = +2°C	4.10	3.00

Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.39 kW	1.94 kW
COP Tj = +7°C	6.75	4.40
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.54 kW	2.37 kW
COP Tj = 12°C	9.40	7.10
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.50 kW	5.60 kW
COP Tj = Tbiv	1.90	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	5.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
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

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