Login

Summary of	THERMA V High temperature 3rd Gen 16kW	Reg. No.	011-1W0336
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	THERMA V High temperature 3rd Gen 16kW		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	3.8 kg		
Certification Date	28.06.2019		

Model: HU161HA U33, HN1610H NK3

Configure model	
Model name	HU161HA U33, HN1610H 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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.00 kW	14.00 kW
El input	4.89 kW	5.04 kW
COP	3.27	2.78

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 indoor	63 dB(A)	63 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	126 %	117 %
Prated	13.00 kW	11.00 kW
SCOP	3.23	3.01
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	11.90 kW	9.60 kW
COP Tj = -7°C	2.40	2.46
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	7.00 kW	5.90 kW
COP Tj = +2°C	3.30	3.47
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	4.70 kW	3.70 kW
COP Tj = +7°C	4.20	3.00
Cdh Tj = +7 °C	0.90	0.90

Pdh Tj = 12°C	4.80 kW	4.50 kW
COP Tj = 12°C	3.80	3.60
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	13.50 kW	10.80 kW
COP Tj = Tbiv	2.10	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.50 kW	10.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.10	2.00
WTOL	65 °C	65 °C
Poff	60 W	60 W
PTO	60 W	60 W
PSB	60 W	60 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	0.20 kW
Annual energy consumption Qhe	8618 kWh	7424 kWh