Subtype THERMA V High temperature 3rd Gen 16kW

Certificate Holder	LG Electronics Inc.
Address	84, Wanam-ro, seongsan-gu
ZIP	51554
City	Changwon-si
Country	KR
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	THERMA V High temperature 3rd Gen 16kW
Registration number	011-1W0336
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	3.8 kg
Certification Date	28.06.2019

Model HU161HA U33, HN1610H NK3

Model name	HU161HA U33, HN1610H NK3
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	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 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
ηs	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		Electricity
Supplementary Heater: PSUP	0.00 kW	0.20 kW
Annual energy consumption Qhe	8618 kWh	7424 kWh