Subtype THERMA V_R32 Split 5 7 9 kW

Certificate Holder	LG Electronics Inc.
Address	84, Wanam-ro, seongsan-gu
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Country	KR
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	THERMA V_R32 Split 5 7 9 kW
Registration number	011-1W0315
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.5 kg
Certification Date	05.03.2019
Testing basis	HP KEYMARK certification scheme rules rev. 7

Model HU091MR U44, HN0916M NK4	
Model name	HU091MR U44, HN0916M NK4
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	9.00 kW	5.50 kW
El input	1.94 kW	2.04 kW
COP	4.65	2.70

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	183 %	126 %
Prated	6.00 kW	6.00 kW
SCOP	4.65	3.23
Tbiv	-10 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	5.30 kW	5.30 kW
COP Tj = -7°C	2.75	2.05
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.20 kW	3.20 kW
COP Tj = +2°C	4.50	3.10
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.30 kW	3.00 kW

COP Tj = +7°C	6.50	4.50
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.80 kW	3.60 kW
COP Tj = 12°C	9.00	6.80
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	6.00 kW	5.30 kW
COP Tj = Tbiv	2.45	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.65
WTOL	65 °C	65 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input		Electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	2666 kWh	3837 kWh

Model HU071MR U44, HN0916M NK4

Model name	HU071MR U44, HN0916M NK4
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	7.00 kW	5.50 kW
El input	1.43 kW	2.04 kW
COP	4.90	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	183 %	126 %
Prated	6.00 kW	6.00 kW
SCOP	4.65	3.23
Tbiv	-10 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	5.10 kW	5.30 kW
COP Tj = -7°C	2.80	2.05
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.10 kW	3.20 kW
COP Tj = +2°C	4.50	3.10
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.40 kW	3.00 kW

COP Tj = +7°C	6.50	4.50
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.80 kW	3.60 kW
COP Tj = 12°C	9.00	6.80
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.80 kW	5.30 kW
COP Tj = Tbiv	2.50	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.80 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.65
WTOL	65 °C	65 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.20 kW	0.90 kW
Annual energy consumption Qhe	2575 kWh	3837 kWh

Model HU051MR U44, HN0916M NK4	
Model name	HU051MR U44, HN0916M NK4
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	5.50 kW	5.50 kW
El input	1.12 kW	2.04 kW
COP	4.90	2.70

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	183 %	126 %
Prated	6.00 kW	6.00 kW
SCOP	4.65	3.23
Tbiv	-10 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.90 kW	5.30 kW
COP Tj = -7°C	2.80	2.05
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.00 kW	3.20 kW
COP Tj = +2°C	4.50	3.10
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.20 kW	3.00 kW

COP Tj = +7°C	6.40	4.50
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.60 kW	3.60 kW
COP Tj = 12°C	9.20	6.80
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.50 kW	5.30 kW
COP Tj = Tbiv	2.50	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.65
WTOL	65 °C	65 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.90 kW
Annual energy consumption Qhe	2444 kWh	3837 kWh

Model HU091MR U44 , HN091MR NK5	
Model name	HU091MR U44 , HN091MR NK5
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	9.00 kW	5.50 kW
El input	1.94 kW	2.04 kW
COP	4.65	2.70

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	183 %	126 %
Prated	6.00 kW	6.00 kW
SCOP	4.65	3.23
Tbiv	-10 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	5.30 kW	5.30 kW
COP Tj = -7°C	2.75	2.05
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.20 kW	3.20 kW
COP Tj = +2°C	4.50	3.10
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.30 kW	3.00 kW

COP Tj = +7°C	6.50	4.50
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.80 kW	3.60 kW
COP Tj = 12°C	9.00	6.80
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	6.00 kW	5.30 kW
COP Tj = Tbiv	2.45	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.65
WTOL	65 °C	65 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input		Electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	2666 kWh	3837 kWh

Model HU071MR U44, HN091MR NK5	
Model name	HU071MR U44, HN091MR NK5
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	7.00 kW	5.50 kW
El input	1.43 kW	2.04 kW
COP	4.90	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	183 %	126 %
Prated	6.00 kW	6.00 kW
SCOP	4.65	3.23
Tbiv	-10 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	5.10 kW	5.30 kW
COP Tj = -7°C	2.80	2.05
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.10 kW	3.20 kW
COP Tj = +2°C	4.50	3.10
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.40 kW	3.00 kW

COP Tj = +7°C	6.50	4.50
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.80 kW	3.60 kW
COP Tj = 12°C	9.00	6.80
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.80 kW	5.30 kW
COP Tj = Tbiv	2.50	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.80 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.65
WTOL	65 °C	65 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.20 kW	0.90 kW
Annual energy consumption Qhe	2575 kWh	3837 kWh

Model HU051MR U44, HN091MR NK5	
Model name	HU051MR U44, HN091MR NK5
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	5.50 kW	5.50 kW
El input	1.12 kW	2.04 kW
COP	4.90	2.70

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	183 %	126 %
Prated	6.00 kW	6.00 kW
SCOP	4.65	3.23
Tbiv	-10 °C	-7 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.90 kW	5.30 kW
COP Tj = -7°C	2.80	2.05
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.00 kW	3.20 kW
COP Tj = +2°C	4.50	3.10
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.20 kW	3.00 kW

COP Tj = +7°C	6.40	4.50
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.60 kW	3.60 kW
COP Tj = 12°C	9.20	6.80
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.50 kW	5.30 kW
COP Tj = Tbiv	2.50	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.65
WTOL	65 °C	65 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.90 kW
Annual energy consumption Qhe	2444 kWh	3837 kWh