Login

Summary of	R32 THERMA V IWT 5, 7, 9kW	Reg. No.	011-1W0407
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	R32 THERMA V IWT 5, 7, 9kW		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.5 kg		
Certification Date	04.09.2020		
Testing basis	EN 14511, EN 12102-1, EN 14825, EN 16147		

Model: HU051MR U44 / HN0916T NB1

Configure model	
Model name	HU051MR U44 / HN0916T NB1
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.50 kW	5.00 kW
El input	1.22 kW	1.92 kW
COP	4.50	2.60

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	43 dB(A)	43 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	178 %	117 %
Prated	6.00 kW	6.00 kW
SCOP	4.52	3.01
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.00 kW	4.90 kW
COP Tj = -7°C	2.90	1.95
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.00 kW	3.00 kW
COP Tj = +2°C	4.50	2.90
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.20 kW	2.60 kW
COP Tj = +7°C	5.70	4.10
Cdh Tj = +7 °C	0.90	0.90

Pdh Tj = 12°C	2.60 kW	3.20 kW
COP Tj = 12°C	8.30	5.95
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.00 kW	4.90 kW
COP Tj = Tbiv	2.90	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.55
WTOL	65 °C	65 °C
Poff	30 W	30 W
PTO	30 W	30 W
PSB	30 W	30 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.40 kW	1.10 kW
Annual energy consumption Qhe	2557 kWh	3786 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	125 %
COP	2.88
Heating up time	2:02 h:min
Standby power input	56.3 W
Reference hot water temperature	47.2 °C
Mixed water at 40°C	182 l

Model: HU071MR U44 / HN0916T NB1

Configure model	
Model name	HU071MR U44 / HN0916T NB1
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	7.00 kW	5.25 kW
El input	1.56 kW	2.02 kW
COP	4.50	2.60

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	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	176 %	117 %
Prated	6.00 kW	6.00 kW
SCOP	4.47	3.00
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.10 kW	4.90 kW
COP Tj = -7°C	2.90	1.95
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	4.46	2.90
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.40 kW	2.60 kW
COP Tj = +7°C	5.65	4.05
Cdh Tj = +7 °C	0.90	0.90

Pdh Tj = 12°C	2.70 kW	3.20 kW
COP Tj = 12°C	7.81	5.90
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.10 kW	4.90 kW
COP Tj = Tbiv	2.90	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.80 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.55
WTOL	65 °C	65 °C
Poff	30 W	30 W
PTO	30 W	30 W
PSB	30 W	30 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.20 kW	1.00 kW
Annual energy consumption Qhe	2658 kWh	3827 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	125 %
COP	2.88
Heating up time	2:02 h:min
Standby power input	56.3 W
Reference hot water temperature	47.2 °C
Mixed water at 40°C	182 l

Model: HU091MR U44 / HN0916T NB1

Configure model	
Model name	HU091MR U44 / HN0916T NB1
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	9.00 kW	5.50 kW
El input	2.05 kW	2.12 kW
COP	4.40	2.60

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	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	175 %	118 %
Prated	6.00 kW	6.00 kW
SCOP	4.45	3.03
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.60 kW	5.00 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.40 kW	3.00 kW
COP Tj = +2°C	4.50	2.90
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.60 kW	2.60 kW
COP Tj = +7°C	5.75	4.20
Cdh Tj = +7 °C	0.90	0.90

Pdh Tj = 12°C	2.80 kW	3.20 kW
COP Tj = 12°C	7.53	6.10
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.60 kW	5.00 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.55
WTOL	65 °C	65 °C
Poff	30 W	30 W
PTO	30 W	30 W
PSB	30 W	30 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	1.00 kW
Annual energy consumption Qhe	2922 kWh	3817 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	125 %
COP	2.88
Heating up time	2:02 h:min
Standby power input	56.3 W
Reference hot water temperature	47.2 °C
Mixed water at 40°C	182 l