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

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

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

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

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

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

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

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

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

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