

This information was generated by the HP KEYMARK database on 17 Dec 2020

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		
Name of testing laboratory	TÜV Rheinland Korea Ltd.		
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

## General Data

Power supply	1x230V 50Hz
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## 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
$\eta_s$	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	0.90	0.90
Pdh Tj = +2°C	3.00 kW	3.00 kW
COP Tj = +2°C	4.50	2.90

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Cdh	0.90	0.90
Pdh Tj = +7°C	2.20 kW	2.60 kW
COP Tj = +7°C	5.70	4.10
Cdh	0.90	0.90
Pdh Tj = 12°C	2.60 kW	3.20 kW
COP Tj = 12°C	8.30	5.95
Cdh	0.90	0.90
Pdh Tj = Tbiv	5.00 kW	4.90 kW
COP Tj = Tbiv	2.90	1.95
Pdh Tj = TOL	5.60 kW	4.90 kW
COP Tj = TOL	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	electric	electric
Supplementary Heater: PSUP	0.40 kW	1.10 kW
Annual energy consumption Qhe	2557 kWh	3786 kWh

## Heating

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<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	5.50 kW	5.00 kW
El input	1.22 kW	1.92 kW
COP	4.50	2.60
Indoor water flow rate	0.95 m <sup>3</sup> /h	0.54 m <sup>3</sup> /h

<b>EN 14511-4</b>	
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

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<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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

## General Data

Power supply	1x230V 50Hz
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## 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
$\eta_s$	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	0.90	0.90
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	4.46	2.90

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Cdh	0.90	0.90
Pdh Tj = +7°C	2.40 kW	2.60 kW
COP Tj = +7°C	5.65	4.05
Cdh	0.90	0.90
Pdh Tj = 12°C	2.70 kW	3.20 kW
COP Tj = 12°C	7.81	5.90
Cdh	0.90	0.90
Pdh Tj = Tbiv	5.10 kW	4.90 kW
COP Tj = Tbiv	2.90	1.95
Pdh Tj = TOL	5.80 kW	5.00 kW
COP Tj = TOL	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	electric	electric
Supplementary Heater: PSUP	0.20 kW	1.00 kW
Annual energy consumption Qhe	2658 kWh	3827 kWh

## Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	7.00 kW	5.25 kW
El input	1.56 kW	2.02 kW
COP	4.50	2.60
Indoor water flow rate	1.21 m <sup>3</sup> /h	0.57 m <sup>3</sup> /h

<b>EN 14511-4</b>	
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



This information was generated by the HP KEYMARK database on 17 Dec 2020

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	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

## General Data

Power supply	1x230V 50Hz
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## 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
$\eta_s$	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	0.90	0.90
Pdh Tj = +2°C	3.40 kW	3.00 kW
COP Tj = +2°C	4.50	2.90

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Cdh	0.90	0.90
Pdh Tj = +7°C	2.60 kW	2.60 kW
COP Tj = +7°C	5.75	4.20
Cdh	0.90	0.90
Pdh Tj = 12°C	2.80 kW	3.20 kW
COP Tj = 12°C	7.53	6.10
Cdh	0.90	0.90
Pdh Tj = Tbiv	5.60 kW	5.00 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL	6.00 kW	5.00 kW
COP Tj = TOL	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	electric
Supplementary Heater: PSUP	0.00 kW	1.00 kW
Annual energy consumption Qhe	2922 kWh	3817 kWh

## Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	9.00 kW	5.50 kW
El input	2.05 kW	2.12 kW
COP	4.40	2.60
Indoor water flow rate	1.55 m <sup>3</sup> /h	0.59 m <sup>3</sup> /h

<b>EN 14511-4</b>	
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

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<b>EN 16147</b>	
Declared load profile	L
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COP	2.88
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