

Page 1 of 13

#### This information was generated by the HP KEYMARK database on 22 Jun 2022

#### <u>Login</u>

Summary of	R32 THERMA V IWT 5, 7, 9kW	Reg. No.	011-1W0407
Certificate Holder			
Name	LG Electronics Inc.	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	04.09.2020	
Testing basis	EN 14511, EN 12102-1, EN 14825, EN 16147		



# Model: HU051MR U44 / HN0916T NB1

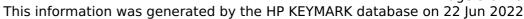
Configure model		
Model name HU051MR U44 / HN0916T NB1		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

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
СОР	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





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 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

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





This intermation was genera	, , , , , , , , , , , , , , , , , , ,	,
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
РТО	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)



EN 16147	
Declared load profile	L
Efficiency ηDHW	125 %
СОР	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 I



# 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
СОР	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



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 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

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





		·
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
РТО	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)



EN 16147	
Declared load profile	L
Efficiency ηDHW	125 %
СОР	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	
СОР	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

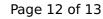




EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

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 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 = $+7^{\circ}$ C	2.60 kW	2.60 kW
$COP Tj = +7^{\circ}C$	5.75	4.20
Cdh Tj = +7 °C	0.90	0.90

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





		<u> </u>
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
РТО	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)



EN 16147	
Declared load profile	L
Efficiency ηDHW	125 %
СОР	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