

## Subtype R32 THERMAV IWT(2ND) 5,7,9kW

Certificate Holder	LG Electronics Inc.
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Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	R32 THERMAV IWT(2ND) 5,7,9kW
Registration number	011-1W0526
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.5 kg
Certification Date	29.04.2022
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 9 (as of 2021-03)

## Model HU051MR U44 / HN0913T NK0

Model name	HU051MR U44 / HN0913T NK0
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
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 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	133 %
COP	3.15
Heating up time	1:44 h:min
Standby power input	30.0 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	250 l

## 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	42 dB(A)	42 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	183 %	126 %

Prated	5.50 kW	6.00 kW
SCOP	4.65	3.23
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.90 kW	5.30 kW
COP Tj = -7°C	2.80	2.05
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.00 kW	3.20 kW
COP Tj = +2°C	4.50	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.20 kW	3.00 kW
COP Tj = +7°C	6.40	4.50
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.60 kW	3.60 kW
COP Tj = 12°C	9.20	6.80
Cdh Tj = +12 °C	0.900	0.900
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	2444 kWh	3837 kWh

## Model HU071MR U44 / HN0913T NK0

Model name	HU071MR U44 / HN0913T NK0
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
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 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	133 %
COP	3.15
Heating up time	1:44 h:min
Standby power input	30.0 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	250 l

### 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	42 dB(A)	42 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	183 %	126 %

Prated	5.80 kW	6.00 kW
SCOP	4.65	3.23
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.10 kW	5.30 kW
COP Tj = -7°C	2.80	2.05
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.10 kW	3.20 kW
COP Tj = +2°C	4.50	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.40 kW	3.00 kW
COP Tj = +7°C	6.50	4.50
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.80 kW	3.60 kW
COP Tj = 12°C	9.00	6.80
Cdh Tj = +12 °C	0.900	0.900
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	2575 kWh	3837 kWh

## Model HU091MR U44 / HN0913T NK0

Model name	HU091MR U44 / HN0913T NK0
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
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 16147 | Average Climate

Declared load profile	XL
Efficiency $\eta_{DHW}$	140 %
COP	3.40
Heating up time	1:44 h:min
Standby power input	30.0 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	250 l

### 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	42 dB(A)	42 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	183 %	126 %

Prated	6.00 kW	6.00 kW
SCOP	4.65	3.23
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.30 kW	5.30 kW
COP Tj = -7°C	2.75	2.05
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.20 kW	3.20 kW
COP Tj = +2°C	4.50	3.10
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.30 kW	3.00 kW
COP Tj = +7°C	6.50	4.50
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.80 kW	3.60 kW
COP Tj = 12°C	9.00	6.80
Cdh Tj = +12 °C	0.900	0.900
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
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	2666 kWh	3837 kWh