

## Subtype R32 THERMAV IWT 4, 6kW

Certificate Holder	LG Electronics Inc.
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Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	R32 THERMAV IWT 4, 6kW
Registration number	011-1W0578
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.1 kg
Certification Date	17.02.2023
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 11 (as of 2022-09)

## Model HU061MR U20 / HN0613T NK0

Model name	HU061MR U20 / HN0613T 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	1:45 h:min
Standby power input	30.0 W
Reference hot water temperature	48.0 °C
Mixed water at 40°C	220 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	6.00 kW	4.60 kW
El input	1.21 kW	1.59 kW
COP	4.95	2.90

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

### EN 14825 | Average Climate

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

Prated	5.50 kW	5.80 kW
SCOP	4.65	3.23
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.90 kW	5.10 kW
COP Tj = -7°C	2.84	2.12
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.00 kW	3.10 kW
COP Tj = +2°C	4.39	3.01
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.90 kW	2.80 kW
COP Tj = +7°C	6.56	4.54
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.70 kW	3.20 kW
COP Tj = 12°C	9.20	6.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.50 kW	5.10 kW
COP Tj = Tbiv	2.48	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	5.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.48	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	0.30 kW
Annual energy consumption Qhe	2444 kWh	3714 kWh

## Model HU041MR U20 / HN0613T NK0

Model name	HU041MR U20 / HN0613T 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	1:45 h:min
Standby power input	30.0 W
Reference hot water temperature	48.0 °C
Mixed water at 40°C	220 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	4.00 kW	3.70 kW
El input	0.78 kW	1.30 kW
COP	5.10	2.85

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

### EN 14825 | Average Climate

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

Prated	4.00 kW	5.80 kW
SCOP	4.65	3.23
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.60 kW	5.10 kW
COP Tj = -7°C	3.20	2.12
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.10 kW	3.10 kW
COP Tj = +2°C	4.49	3.03
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.90 kW	2.80 kW
COP Tj = +7°C	6.00	4.54
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.00 kW	3.20 kW
COP Tj = 12°C	8.80	6.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.00 kW	5.10 kW
COP Tj = Tbiv	2.55	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	4.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.00 kW	1.40 kW
Annual energy consumption Qhe	1777 kWh	3714 kWh