

Subtype R290 monobloc 7, 9kW_1 phase & 3phases_UB40	
Certificate Holder	LG Electronics Inc.
Address	84, Wanam-ro, seongsan-gu
ZIP	51554
City	Changwon-si
Country	KR
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	R290 monobloc 7, 9kW_1 phase & 3phases_UB40
Registration number	011-1W0831
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.9 kg
Certification Date	17.07.2024
Testing basis	HP KEYMARK certification scheme rules V14

Model HM091HF UB40 / HN1616HC NK0

Model name	HM091HF UB40 / HN1616HC NK0
Application	Heating (medium 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 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	1.91 kW	1.67 kW
COP	4.70	3.30

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	205 %	151 %
Prated	6.00 kW	7.00 kW
SCOP	5.20	3.86
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.30 kW	6.40 kW
COP Tj = -7°C	3.30	2.45
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.20 kW	3.90 kW
COP Tj = +2°C	5.25	3.92
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.40 kW	3.90 kW
COP Tj = +7°C	6.55	5.05
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.40 kW	3.90 kW
COP Tj = 12°C	8.30	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.00 kW	7.20 kW
COP Tj = Tbiv	2.90	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	7.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.15
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	10 W	10 W
PTO	30 W	30 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2386 kWh	3856 kWh

Model HM091HF UB40 / PHCS0 ENCXLEU

Model name	HM091HF UB40 / PHCS0 ENCXLEU
Application	Heating (medium temp)
Units	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 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	1.91 kW	1.67 kW
COP	4.70	3.30

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	205 %	151 %
Prated	6.00 kW	7.00 kW
SCOP	5.20	3.86
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.30 kW	6.40 kW
COP Tj = -7°C	3.30	2.45
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.20 kW	3.90 kW
COP Tj = +2°C	5.25	3.92
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.40 kW	3.90 kW
COP Tj = +7°C	6.55	5.05
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.40 kW	3.90 kW
COP Tj = 12°C	8.30	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.00 kW	7.20 kW
COP Tj = Tbiv	2.90	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	7.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.15
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	10 W	10 W
PTO	30 W	30 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2386 kWh	3856 kWh

Model HM093HF UB40 / HN1639HC NK0

Model name	HM093HF UB40 / HN1639HC NK0
Application	Heating (medium 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	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**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	1.91 kW	1.67 kW
COP	4.70	3.30

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	205 %	151 %
Prated	6.00 kW	7.00 kW
SCOP	5.20	3.86
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.30 kW	6.40 kW
COP Tj = -7°C	3.30	2.45
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.20 kW	3.90 kW
COP Tj = +2°C	5.25	3.92
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.40 kW	3.90 kW
COP Tj = +7°C	6.55	5.05
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.40 kW	3.90 kW
COP Tj = 12°C	8.30	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.00 kW	7.20 kW
COP Tj = Tbiv	2.90	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	7.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.15
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	10 W	10 W
PTO	30 W	30 W
PSB	30 W	30 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2386 kWh	3856 kWh

Model HM093HF UB40 / PHCS0 ENCXLEU

Model name	HM093HF UB40 / PHCS0 ENCXLEU
Application	Heating (medium temp)
Units	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	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

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	1.91 kW	1.67 kW
COP	4.70	3.30

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	205 %	151 %
Prated	6.00 kW	7.00 kW
SCOP	5.20	3.86
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.30 kW	6.40 kW
COP Tj = -7°C	3.30	2.45
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.20 kW	3.90 kW
COP Tj = +2°C	5.25	3.92
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.40 kW	3.90 kW
COP Tj = +7°C	6.55	5.05
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.40 kW	3.90 kW
COP Tj = 12°C	8.30	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.00 kW	7.20 kW
COP Tj = Tbiv	2.90	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	7.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.15
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	10 W	10 W
PTO	30 W	30 W
PSB	30 W	30 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2386 kWh	3856 kWh