

Model HM163HF UB60 / HN1639HC NK0

Model name	HM163HF UB60 / HN1639HC NK0
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	16.00 kW	12.00 kW
El input	3.72 kW	3.64 kW
COP	4.30	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	52 dB(A)	52 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	201 %	154 %
Prated	11.70 kW	11.70 kW
SCOP	5.11	3.92
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.40 kW	10.40 kW
COP Tj = -7°C	3.12	2.34
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.30 kW	6.30 kW
COP Tj = +2°C	5.02	3.90
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.10 kW	4.20 kW

COP Tj = +7°C	6.70	5.05
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	8.45	6.75
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.70 kW	10.40 kW
COP Tj = Tbiv	2.80	2.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.70 kW	11.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.30
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	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.30 kW
Annual energy consumption Qhe	4735 kWh	6162 kWh