

Subtype airH2O 400 Mono 10 12

Certificate Holder	Johnson Controls Hitachi Air-Conditioning Europe SAS
Address	Parc Aktiland II - 2, Rue de Lombardie
ZIP	69800
City	SAINT PRIEST
Country	FR
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	airH2O 400 Mono 10 12
Registration number	011-1W0845
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.5 kg
Certification Date	18.07.2024
Testing basis	HP KEYMARK certification scheme rules V14

Model HZKF10KME-Q

Model name	HZKF10KME-Q
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	10.00 kW	9.00 kW
El input	1.96 kW	2.90 kW
COP	5.10	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	193 %	142 %
Prated	9.20 kW	9.20 kW
SCOP	4.90	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.16 kW	8.18 kW
COP Tj = -7°C	3.14	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.19 kW	5.15 kW
COP Tj = +2°C	4.65	3.49
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.28 kW	3.36 kW

COP Tj = +7°C	6.59	4.66
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.75 kW	2.64 kW
COP Tj = 12°C	8.48	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.16 kW	8.18 kW
COP Tj = Tbiv	3.14	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.15 kW	9.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.96
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	10 W	10 W
PTO	13 W	13 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.05 kW	0.15 kW
Annual energy consumption Qhe	3890 kWh	5273 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	265 %	170 %
Prated	9.70 kW	9.50 kW
SCOP	6.70	4.34
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.38 kW	9.50 kW
COP Tj = +2°C	3.78	2.53
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.21 kW	6.08 kW
COP Tj = +7°C	5.67	3.60
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.95 kW	2.74 kW
COP Tj = 12°C	8.85	5.56
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.21 kW	6.08 kW
COP Tj = Tbiv	5.67	3.60
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.38 kW	9.50 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.78	2.53
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
PTO	13 W	13 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.00 kW
Annual energy consumption Qhe	1926 kWh	2915 kWh

Model HZKF10KMO-Q

Model name	HZKF10KMO-Q
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	10.00 kW	9.00 kW
El input	1.96 kW	2.90 kW
COP	5.10	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	193 %	142 %
Prated	9.20 kW	9.20 kW
SCOP	4.90	3.62
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.16 kW	8.18 kW
COP Tj = -7°C	3.14	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.19 kW	5.15 kW
COP Tj = +2°C	4.65	3.49
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.28 kW	3.36 kW

COP Tj = +7°C	6.59	4.66
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.75 kW	2.64 kW
COP Tj = 12°C	8.48	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.16 kW	8.18 kW
COP Tj = Tbiv	3.14	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.15 kW	9.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.96
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	10 W	10 W
PTO	13 W	13 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.05 kW	0.15 kW
Annual energy consumption Qhe	3890 kWh	5273 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	265 %	170 %
Prated	9.70 kW	9.50 kW
SCOP	6.70	4.34
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.38 kW	9.50 kW
COP Tj = +2°C	3.78	2.53
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.21 kW	6.08 kW
COP Tj = +7°C	5.67	3.60
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.95 kW	2.74 kW
COP Tj = 12°C	8.85	5.56
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.21 kW	6.08 kW
COP Tj = Tbiv	5.67	3.60
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.38 kW	9.50 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.78	2.53
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
PTO	13 W	13 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.00 kW
Annual energy consumption Qhe	1926 kWh	2915 kWh

Model HZKF12KME-Q

Model name	HZKF12KME-Q
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	12.00 kW	11.20 kW
El input	2.42 kW	3.67 kW
COP	4.95	3.05

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	192 %	136 %
Prated	10.20 kW	10.00 kW
SCOP	4.87	3.47
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.98 kW	8.87 kW
COP Tj = -7°C	3.15	2.32
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.61 kW	5.34 kW
COP Tj = +2°C	4.64	3.22
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.57 kW	3.47 kW

COP Tj = +7°C	6.48	4.65
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.77 kW	2.66 kW
COP Tj = 12°C	8.11	6.34
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.98 kW	8.87 kW
COP Tj = Tbiv	3.15	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.92 kW	10.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	10 W	10 W
PTO	13 W	13 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.28 kW	0.00 kW
Annual energy consumption Qhe	4309 kWh	5964 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	259 %	170 %
Prated	10.50 kW	10.50 kW
SCOP	6.56	4.33
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.22 kW	10.10 kW
COP Tj = +2°C	3.74	2.47
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.77 kW	6.75 kW
COP Tj = +7°C	5.90	3.62
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.94 kW	2.95 kW
COP Tj = 12°C	8.13	5.69
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.77 kW	6.75 kW
COP Tj = Tbiv	5.90	3.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.22 kW	10.10 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.74	2.47
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
PTO	13 W	13 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.28 kW	0.40 kW
Annual energy consumption Qhe	2145 kWh	3243 kWh

Model HZKF12KMO-Q

Model name	HZKF12KMO-Q
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	12.00 kW	11.20 kW
El input	2.42 kW	3.67 kW
COP	4.95	3.05

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	192 %	136 %
Prated	10.20 kW	10.00 kW
SCOP	4.87	3.47
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.98 kW	8.87 kW
COP Tj = -7°C	3.15	2.32
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.61 kW	5.34 kW
COP Tj = +2°C	4.64	3.22
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.57 kW	3.47 kW

COP Tj = +7°C	6.48	4.65
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.77 kW	2.66 kW
COP Tj = 12°C	8.11	6.34
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.98 kW	8.87 kW
COP Tj = Tbiv	3.15	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.92 kW	10.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	10 W	10 W
PTO	13 W	13 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.28 kW	0.00 kW
Annual energy consumption Qhe	4309 kWh	5964 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	259 %	170 %
Prated	10.50 kW	10.50 kW
SCOP	6.56	4.33
Tbiv	7 °C	7 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.22 kW	10.10 kW
COP Tj = +2°C	3.74	2.47
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.77 kW	6.75 kW
COP Tj = +7°C	5.90	3.62
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.94 kW	2.95 kW
COP Tj = 12°C	8.13	5.69
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.77 kW	6.75 kW
COP Tj = Tbiv	5.90	3.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.22 kW	10.10 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.74	2.47
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	10 W	10 W
PTO	13 W	13 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.28 kW	0.40 kW
Annual energy consumption Qhe	2145 kWh	3243 kWh