

Technical parameters

Model(s):	Outdoor unit: HZKF12KSE(O)-Q
	Indoor unit: HZKF12KIE(O)-Q
Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes
Heat pump combination heater:	no
Parameters shall be declared for	Low temperature application.
Parameters shall be declared for	average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.5	kW	Seasonal space heating energy efficiency	η_s	189	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	8.40	kW	Tj = - 7 °C	COPd	3.16	-
Tj = +2 °C	Pdh	5.12	kW	Tj = +2 °C	COPd	4.52	-
Tj = +7 °C	Pdh	3.22	kW	Tj = +7 °C	COPd	6.45	-
Tj = +12 °C	Pdh	2.73	kW	Tj = +12 °C	COPd	7.91	-
Tj =bivalent temperature	Pdh	8.40	kW	Tj =bivalent temperature	COPd	3.16	-
Tj = operation limit temperature	Pdh	9.07	kW	Tj = operation limit temperature	COPd	2.78	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	-	°C

Power consumption in modes other than active mode				Supplementary heater			
Off mode	POFF	0.005	kW	Rated heat output (*)	Psup	0.4	kW
Thermostat-off mode	PTO	0.002	kW				
Standby mode	PSB	0.005	kW	Type of energy input		Electric	
Crankcase heater mode	PCK	0	kW				

Other items							
Capacity control		variable		Rated air flow rate, outdoors		3900	m ³ /h
Sound power level, indoors/outdoors	LWA	44/64	dB				
Annual energy consumption	QHE	4097	kWh				

Contact details

JOHNSON CONTROLS HITACHI AIR CONDITIONING EUROPE SAS
Parc Aktiland II – 2, Rue de Lombardie – 69800 SAINT PRIEST, FRANCE

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

TECHNICAL PARAMETERS

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Model(s):	Outdoor unit: HZKF12KSE(O)-Q
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Air-to-water heat pump:	yes
Water-to-water heat pump:	no
Brine-to-water heat pump:	no
Low-temperature heat pump:	no
Equipped with a supplementary heater:	yes
Heat pump combination heater:	no
Parameters shall be declared for	Medium temperature application.
Parameters shall be declared for	average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.2	kW	Seasonal space heating energy efficiency	ηs	136	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	8.11	kW	Tj = - 7 °C	COPd	2.12	-
Tj = +2 °C	Pdh	4.78	kW	Tj = +2 °C	COPd	3.27	-
Tj = +7 °C	Pdh	3.30	kW	Tj = +7 °C	COPd	4.87	-
Tj = +12 °C	Pdh	2.88	kW	Tj = +12 °C	COPd	6.82	-
Tj =bivalent temperature	Pdh	8.11	kW	Tj =bivalent temperature	COPd	2.12	-
Tj = operation limit temperature	Pdh	8.69	kW	Tj = operation limit temperature	COPd	1.69	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	-	°C

Power consumption in modes other than active mode				Supplementary heater			
Off mode	POFF	0.005	kW	Rated heat output (*)	Psup	0.5	kW
Thermostat-off mode	PTO	0.002	kW				
Standby mode	PSB	0.005	kW	Type of energy input		Electric	
Crankcase heater mode	PCK	0	kW				

Other items							
Capacity control		variable		Rated air flow rate, outdoors		3900	m³/h
Sound power level, indoors/outdoors	LWA	44/64	dB				
Annual energy consumption	QHE	5444	kWh				

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