

Technical parameters											
Model(s):	KHC-16RY3-B										
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:	NO										
Heat pump combination heater:	NO										
Declared climate condition:	WARMER										
Parameters are declared for medium-temperature application.											
Item	Symbol	Value	Unit	Item							
Rated heat output (*)	Prated	13.8	kW	Seasonal space heating energy efficiency	η_s	175.9	%				
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	-	kW	Tj = -7°C	COPd	-	-				
Tj = 2°C	Pdh	13.38	kW	Tj = 2°C	COPd	2.29	-				
Tj = 7°C	Pdh	8.86	kW	Tj = 7°C	COPd	3.84	-				
Tj = 12°C	Pdh	4.06	kW	Tj = 12°C	COPd	5.86	-				
Tj = bivalent temperature	Pdh	8.86	kW	Tj = bivalent temperature	COPd	3.84	-				
Tj = operating limit	Pdh	13.38	kW	Tj = operating limit	COPd	2.29	-				
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-				
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C				
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-				
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C				
Power consumption in modes other than active mode					Supplementary heater						
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.42	kW				
Standby mode	Psb	0.014	kW	Type of energy input	Electrical						
Thermostat-off mode	Pto	0.029	kW								
Crankcase heater mode	Pck	0.000	kW								
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m³/h				
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h				
Annual energy consumption	QHE	4116	kWh								
For heat pump combination heater:											
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%				
Daily electricity consumption	Qclec	-	kWh	Daily fuel consumption	Qfuel	-	kWh				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ				
Contact details	KLIMA-THERM Sp. z o. o. ul. Ostrobramska 101A, 04-041 Warszawa, Polska										
(*) 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 Cd is not determined by measurement then the default degradation coefficient is Cd = 0.9.											