

Technical parameters										
Model(s):	KHC-12RY3-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	Symbol					
Rated heat output (*)	Prated	12.5	kW	Seasonal space heating energy efficiency	$\eta_s$					
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				173.8 %						
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd					
Tj = 2°C	Pdh	12.07	kW	Tj = 2°C	COPd					
Tj = 7°C	Pdh	8.04	kW	Tj = 7°C	COPd					
Tj = 12°C	Pdh	3.75	kW	Tj = 12°C	COPd					
Tj = bivalent temperature	Pdh	8.04	kW	Tj = bivalent temperature	COPd					
Tj = operating limit	Pdh	12.07	kW	Tj = operating limit	COPd					
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd					
Bivalent temperature	T_biv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL					
Cycling interval capacity for heating	P_cyc	-	kW	Cycling interval efficiency	COP_cyc					
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL					
Power consumption in modes other than active mode										
Off mode	Poff	0.020	kW	Supplementary heater						
Standby mode	Psb	0.020	kW	Rated heat output (**)	Psup					
Thermostat-off mode	Pto	0.030	kW	Type of energy input	Electrical					
Crankcase heater mode	Pck	0.000	kW							
Other items										
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	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	3780	kWh							
For heat pump combination heater:										
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%			
Daily electricity consumption	Q_clec	-	kWh	Daily fuel consumption	Q_fuel	-	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 Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.										