

Model(s):				ecoGEO HP 12-40			
Air-to-water heat pump:				NO			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				YES			
Low-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				NO			
Indicated for climatic conditions:				AVERAGE CLIMATE CONDITIONS			
The parameters are given for use at medium temperature. (55°C)							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	44,0	kW	Seasonal space heating energy efficiency	η_s	144,0	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = -7°C	Pdh	35,82	kW	Tj = -7°C	COPd	2,76	-
Tj = 2°C	Pdh	22,79	kW	Tj = 2°C	COPd	3,60	-
Tj = 7°C	Pdh	15,04	kW	Tj = 7°C	COPd	4,23	-
Tj = 12°C	Pdh	6,69	kW	Tj = 12°C	COPd	8,61	-
Tj = bivalent temperature	Pdh	40,26	kW	Tj = bivalent temperature	COPd	2,54	-
Tj = operation limit temperature	Pdh	40,26	kW	Tj = operation limit temperature	COPd	2,54	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Ppsych	-	kW	Cycling interval efficiency	COP _{psych}	-	-
Degradation co-efficient (**)	Cdh	0,99	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,020	kW				
Standby mode	Psb	0,020	kW	Rated heat output (*)	Psup	0	kW
Thermostat-off mode	Pto	0,020	kW				
Crankcase heater mode	Pck	0	kW	Type of energy input	Electrical		
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m³/h
Sound power level, indoors/ outdoors	LWA	54/0	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	7,38	m³/h
Emissions of nitrogen oxides	QHE	23866	kWh				
For a combined heat pump heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Contact details	Ecoforest Geotermia, S.L.						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output <i>Prated</i> is equal to the design load for heating <i>Pdesignh</i> , and the rated heat output of a supplementary heater <i>Psup</i> is equal to the supplementary capacity for heating <i>sup(Tj)</i> .							
(**) If <i>Cdh</i> is not determined by measurement then the default degradation coefficient is <i>Cdh</i> = 0,9.							