

Information requirements for heat pump space heaters and heat pump combination heaters

Model(s): HOTJET 15ONE2
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]

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, 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	11,07	kW	Seasonal space heating energy efficiency	η_s	158	%
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			
$T_j = -7\text{ °C}$	Pdh	9,34	kW	$T_j = -7\text{ °C}$	COPd	2,91	
$T_j = +2\text{ °C}$	Pdh	11,07	kW	$T_j = +2\text{ °C}$	COPd	3,50	
$T_j = +7\text{ °C}$	Pdh	13,25	kW	$T_j = +7\text{ °C}$	COPd	4,26	
$T_j = +12\text{ °C}$	Pdh	15,56	kW	$T_j = +12\text{ °C}$	COPd	5,16	
$T_j = \text{bivalent temperature}$	Pdh	9,34	kW	$T_j = \text{bivalent temperature}$	COPd	2,91	

T _j = operation limit Temperature-10°C	P _{dh}	8,95	kW	T _j = operation limit temperature	COP _d	2,77	—
For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}		kW	For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	COP _d or PER _d		— or %
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cyc}	x	kW	Cycling interval efficiency	COP _{cyc} or PER _{cyc}	x	— or %
Degradation co-efficient (**)	C _{dh}	x	—	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0,0073	kW	Rated heat output (*)	P _{sup}	x	kW
Thermostat-off mode	P _{TO}	0.014	kW	Type of energy input			
Standby mode	P _{SB}	0.0073	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	—	4500	m ³ /h
Sound power level, indoors/ outdoors	L _{WA}	67,7	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	x	m ³ /h
Emissions of nitrogen oxides	NO _x	x	mg/ kWh				
For heat pump combination heater:							
Declared load profile	x			Water heating energy effi- ciency	η _{wh}	x	%
Daily electricity consumption	Q _{elec}	x,xxx	kWh	Daily fuel consumption	Q _{fuel}	x,xxx	kWh
Contact details							

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup(T_j).
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh}= 0,9.