

# COMMISSION REGULATION (EU) No. 813/2013

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

Model: Joule Victorum 62010200

Variant models: Victorum 7784292, 62210018, 62210022

Air-to-water heat pump: Yes, Exhaust Air Heat Pump

Water-to-water heat pump: No

Brine-to-water heat pump: No

Low-temperature heat pump: No

Equipped with supplementary heater: Yes

Heat pump combination heater: Yes

Parameters are declared for: Medium-temp application, 55°C

Parameters are declared for: **Average** climate conditions

Harmonised standards applied: EN14511:2013, EN14825:2016, EN16147:2017, BS EN3743-1:2010



Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
<b>Rated heat output (*)</b>	<b>Prated</b>	<b>1.6</b>	<b>kW</b>	<b>Seasonal space heating energy efficiency</b>	<b><math>\eta_s</math></b>	<b>147</b>	<b>%</b>
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 $T_j$			
$T_j = -7^\circ\text{C}$	$P_{dh}$	1.6	kW	$T_j = -7^\circ\text{C}$	$COP_{pd}$	3.88	-
$T_j = +2^\circ\text{C}$	$P_{dh}$	1.6	kW	$T_j = +2^\circ\text{C}$	$COP_{pd}$	4.17	-
$T_j = +7^\circ\text{C}$	$P_{dh}$	1.6	kW	$T_j = +7^\circ\text{C}$	$COP_{pd}$	4.44	-
$T_j = +12^\circ\text{C}$	$P_{dh}$	1.6	kW	$T_j = +12^\circ\text{C}$	$COP_{pd}$	4.68	-
$T_j = \text{bivalent temperature}$	$P_{dh}$	1.6	kW	$T_j = \text{bivalent temperature}$	$COP_{pd}$	4.17	-
$T_j = \text{operation limit temperature}$	$P_{dh}$	1.6	kW	$T_j = \text{operation limit temperature}$	$COP_{pd}$	3.88	-
For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	$P_{dh}$	-	kW	For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	$P_{dh}$	-	-
Bivalent temperature	$T_{biv}$	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	$P_{cyc}$	-	kW	Cycling interval efficiency	$COP_{cyc}$	-	-
Degradation co-efficient (**)	$C_{dh}$	0.9	-	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	$P_{OFF}$	0.058	kW	Rated heat output (*)	$P_{sup}$	3	kW
Thermostat-off mode	$P_{TO}$	0.058	kW	Type of energy Input	electrical		
Standby mode	$P_{SB}$	0.054	kW				
Crankcase heater mode	$P_{CK}$	0.000	kW				
Other items							
Capacity control	Fixed						
Sound power level, indoors/outdoors	$L_{WA}$	59/-	dB	For air-to-water heat pumps: Rated air flow rate, outdoors		155	m³/h
Emissions or nitrogen oxides	$NO_x$	-	mg/kWh	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
For heat pump combination heater:							
<b>Declared load profile</b>	<b>L</b>			<b>Water heating energy efficiency</b>	<b><math>\eta_{wh}</math></b>	<b>139</b>	<b>%</b>
Daily electricity consumption	$Q_{elec}$	3,558	kWh	Reference hot water temperature	-	53.89	°C
Annual electricity consumption	AEC	737	kWh	DHW volume accounted for in test	V	200	L
Standby cylinder heat loss	S	2.064	kWh				
Contact details	Joule Ireland, Unit 407 North West Business Park, Cappagh Road, Dublin 11, Ireland. D11 HD36						

(\*) 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 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  $C_{dh} = 0.9$ .

Precautions as described in the installation/user manual must be taken when assembling, installing, maintaining, disassembly, recycling and/or disposal at end-of-life of this product.

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