

## VITORONDENS 200-T

BR2A

The product data specified meets the requirements of EU Regulations 811/2013 and 813/2013.

Product data	Symbol	Unit	BR2A	BR2A	BR2A	BR2A	BR2A	BR2A
Seasonal space heating energy efficiency			A	A	A	A	A	A
Rated heat output	$P_{\text{rated}}$	kW	50	40	33	27	23	19
Seasonal space heating energy efficiency	$\eta_s$	%	92	92	91	91	90	90
Annual energy consumption	$Q_{\text{HE}}$	kWh	43478	34783	29011	24000	20356	16711
sound power level indoors	$L_{\text{WA}}$	dB	60	61	57	58	57	56

For all special precautions to be taken during assembly, installation or maintenance of the space heater, see the service and installation instructions.

Model	Symbol	Unit	BR2A	BR2A	BR2A	BR2A	BR2A	BR2A
Condensing boiler			-	-	-	-	-	-
Low-temperature boiler			-	-	-	-	-	-
B1 boiler			-	-	-	-	-	-
Cogeneration space heater			No					
Combination heater			No					

Rated heat output	Symbol	Unit	BR2A	BR2A	BR2A	BR2A	BR2A	BR2A
Useful heat output at rated heat output and high-temperature regime	$P_4$	kW	50	40	33	27	22,9	18,8
Useful heat output at 30 % of rated heat output and low-temperature regime	$P_1$	kW	16,16	12,97	10,58	8,65	7,33	6,07

Seasonal space heating energy efficiency	Symbol	Unit	BR2A	BR2A	BR2A	BR2A	BR2A	BR2A
Useful efficiency at rated heat output and high-temperature regime	$\eta_4$	%	91	91,3	91,1	90,8	90,7	90,5
Useful efficiency at 30 % of rated heat output and low-temperature regime	$\eta_1$	%	97,5	98	96,7	96,8	96,4	97,4

Auxiliary electricity consumpt	Symbol	Unit	BR2A	BR2A	BR2A	BR2A	BR2A	BR2A
Auxiliary electricity consumption at full load	$e_{\text{max}}$	kW	0,311	0,3	0,225	0,225	0,215	0,215
Auxiliary electricity consumption at part load	$e_{\text{min}}$	kW	0,093	0,09	0,068	0,068	0,065	0,065
Auxiliary electricity consumption in standby mode	$P_{\text{SB}}$	kW	0,003	0,003	0,003	0,003	0,003	0,003



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Other details	Symbol	Unit	BR2A	BR2A	BR2A	BR2A	BR2A	BR2A
Standby heat loss	$P_{\text{stby}}$	kW	0,18	0,18	0,155	0,155	0,135	0,135
ignition burner power consumption	$P_{\text{ign}}$	kW	-	-	-	-	-	-
Emissions of nitrogen oxides	$\text{NO}_x$	mg/kWh	102	102	102	102	102	102

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Criterion	Energy efficiency category, temperature controller	Contribution, central heating energy efficiency
<ul style="list-style-type: none"> <li>• Room thermostat which switches the heat source on/off</li> </ul>	1	1 %
<ul style="list-style-type: none"> <li>• Weather-compensated control</li> <li>• Modulating heat source</li> </ul>	2	2 %
<ul style="list-style-type: none"> <li>• Weather-compensated control</li> <li>• Non-modulating heat source</li> </ul>	3	1,5 %
<ul style="list-style-type: none"> <li>• Room thermostat with TPI (Time Proportional Integral) properties</li> <li>• Non-modulating heat source</li> </ul>	4	2 %
<ul style="list-style-type: none"> <li>• Modulating room thermostat</li> <li>• Modulating heat source</li> </ul>	5	3 %
<ul style="list-style-type: none"> <li>• Weather compensation, control unit</li> <li>• Modulating heat source</li> <li>• Room temperature sensor in conjunction with room hook-up</li> </ul>	6	4 %
<ul style="list-style-type: none"> <li>• Weather compensation, control unit</li> <li>• Non-modulating heat source</li> <li>• Room temperature sensor in conjunction with room hook-up</li> </ul>	7	3,5 %
<ul style="list-style-type: none"> <li>• Individual room control with min. 3 room temperature sensors</li> <li>• Modulating heat source</li> </ul>	8	5 %