

Contact details of the manufacturer

Manufacturer:	RIKA Innovative Ofentechnik GmbH
Contact:	Andreas Bloderer
Address:	Müllerviertel 20 4563 Micheldorf Austria

Details of the device

Model Identifier:	SONO / SONO RAO / SONO MA
Equivalent models:	-
Notified body:	Technische Universität Wien, Getreidemarkt 9/166, 1060 Wien, Austria
Notified body no.:	1746
Test report no.:	PL-19070-1-P
Applied harmonised standards:	EN14785:2006
Other applied standards/technical specifications:	-
Indirect heating functionality:	Nein
Direct heat output:	7 kW
Indirect heat output:	-

Characteristics when operating with the preferred fuel

Seasonal space heating energy efficiency $\eta_s$ :	81,9 %
Seasonal space heating energy efficiency RIKATRONIC $\eta_s$ :	-
Energy Efficiency Index:	124
Energy Efficiency Index RIKATRONIC:	-

Special precautions for assembly, installation or maintenance

<p>Fire protection and safety distances such as distances to combustible building materials must be observed!</p> <p>An adequate supply of combustion air for the appliance must be guaranteed at all times. Air-suction systems can interfere with the combustion air supply!</p> <p>The flue gas values of the appliance must be observed for the chimney dimensioning!</p>
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Characteristics when operating exclusively with the preferred fuel

Heat output			
Nominal heat output	$P_{nom}$	7	kW
Minimum heat output	$P_{min}$	2,5	kW
Useful efficiency			
Useful efficiency at nominal heat output	$\eta_{th,nom}$	92,5	%
Useful efficiency at minimum heat output	$\eta_{th,min}$	94,2	%
Auxiliary electricity consumption			
At nominal heat output	$e_{l,max}$	0,02	kW
At minimum heat output	$e_{l,min}$	0,01	kW
In standby mode	$e_{l,SB}$	0,003	kW
Permanent pilot flame power requirement			
Pilot flame power requirement	$P_{pilot}$	n.A.	kW

Type of heat output/room temperature control	
single stage heat output, no room temperature control	Yes
two or more manual stages, no room temperature control (**)	No
with mechanic thermostat room temperature control (**)	No
with electronic room temperature control (**)	No
with electronic room temperature control plus day timer (**)	No
with electronic room temperature control plus week timer (**)	No
Room temperature control with presence detection (**)	No
Room temperature control with open window detection (**)	No
with remote control options (**)	No

#### Details of the fuel

Fuel	Preferred fuel:	Other suitable fuel:	$\eta_s$ [%]	Space heating emissions at nominal heat output (*)				Space heating emissions at minimum heat output (*)(**)			
				PM	OGC	CO	NO <sub>x</sub>	PM	OGC	CO	NO <sub>x</sub>
				mg/Nm <sup>3</sup> (13% O <sub>2</sub> )				mg/Nm <sup>3</sup> (13% O <sub>2</sub> )			
Wood logs, moisture content ≤ 25 %	No	No	-	-	-	-	-	-	-	-	-
Wood logs RIKATRONIC, moisture content ≤ 25 %	No	No	-	-	-	-	-	-	-	-	-
Compressed wood, moisture content < 12 %	Yes	No	81,9	12	3	54	133	-	-	-	-
Other woody biomass	No	No	-	-	-	-	-	-	-	-	-
Non-woody biomass	No	No	-	-	-	-	-	-	-	-	-
Anthracite and dry steam coal	No	No	-	-	-	-	-	-	-	-	-
Hard coke	No	No	-	-	-	-	-	-	-	-	-
Low temperature coke	No	No	-	-	-	-	-	-	-	-	-
Bituminous coal	No	No	-	-	-	-	-	-	-	-	-
Lignite briquettes	No	No	-	-	-	-	-	-	-	-	-
Peat briquettes	No	No	-	-	-	-	-	-	-	-	-
Blended fossil fuel briquettes	No	No	-	-	-	-	-	-	-	-	-
Other fossil fuel	No	No	-	-	-	-	-	-	-	-	-
Blended biomass and fossil fuel briquettes	No	No	-	-	-	-	-	-	-	-	-
Other blend of biomass and solid fuel	No	No	-	-	-	-	-	-	-	-	-

(\*) PM = dust, OGC = gaseous organic compounds, CO = carbon monoxide, NO<sub>x</sub> = nitrous gases

(\*\*) Only required when applying correction factors F(2) or F(3)

Signed for and on behalf of the manufacturer by:  
Andreas Bloderer / product management

Micheldorf, 16.12.2021

**RIKA**<sup>®</sup>

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