SPARTHERM®
THE FIRE COMPANY

Technical documentation for solid fuel local space heaters

according to Regulation (EU) 2015/1185 and Regulation (EU) 2015/1186

Contact details of the manufacturer or its authorised representative

Manufacturer:	Spartherm Feuerungstechnik GmbH
Contact:	Andreas Schönfeld
Address:	Maschweg 38 49324 Melle Deutschland

Details of the unit

Model identifier(s):	**Varia 2R-80h 11,0 kW 2.0**
Equivalent models:	–
Test reports:	RRF-29 22 6139
Applied harmonised standards:	EN 13229
Other technical standards and specifications used:	–
Indirekte Heizfunktion:	nein
Direct heat output:	11.0 kW
Indirect heat output[1]:	0.0 kW

Characteristics when operating with the preferred fuel

Seasonal space heating energy efficiency ηs:	83.0 %
Energy Efficiency Index (EEI):	110.4

Special precautions for assembly, installation or maintenance

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Melle, 1.6.2022

Place, date

Andreas Schönfeld

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Fuel:	Preferred fuel (only one)[2]:	Other suitable fuel(s)[3]:	ηs [x%]:	Heating emissions at nominal heat output (*)				Heating emissions at minimum heat output[4] (*)(**)			
				PM	OGC	CO	NOx	PM	OGC	CO	NOx
				[x] mg/Nm^3 (13 % O_2)[5]				[x] mg/Nm^3 (13 % O_2)[6]			
Wood logs with moisture content ≤ 25 %	ja	nein	75.0	40.0	120.0	1250.0	200.0	–	–	–	–
Compressed wood with moisture content < 12 %	nein	nein	–	–	–	–	–	–	–	–	–
Other woody biomass	nein	nein	–	–	–	–	–	–	–	–	–
Non-woody biomass	nein	nein	–	–	–	–	–	–	–	–	–
Anthracite and dry steam coal	nein	nein	–	–	–	–	–	–	–	–	–
Hard coke	nein	nein	–	–	–	–	–	–	–	–	–
Low temperature coke	nein	nein	–	–	–	–	–	–	–	–	–
Bituminous coal	nein	nein	–	–	–	–	–	–	–	–	–
Lignite briquettes	nein	nein	–	–	–	–	–	–	–	–	–
Peat briquettes	nein	nein	–	–	–	–	–	–	–	–	–
Blended fossil fuel briquettes	nein	nein	–	–	–	–	–	–	–	–	–
Other fossil fue	nein	nein	–	–	–	–	–	–	–	–	–
Blended biomass and fossil fuel briquettes	nein	nein	–	–	–	–	–	–	–	–	–

(*) PM = Dust, OGC = Gaseous organic compound, CO = Carbon monoxide, NOx = Nitrogen oxides

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

Characteristics when operating exclusively with the preferred fuel[7]

Item	Symbol	Value	Unit
Heat output			
Nominal heat out put	P nom	11.0	kW
inimum heat out put (indicative)	P min	–	kW
Auxiliary electricity consumption			
At nominal heat output	–	0.0	kW
At minimum heat output	–	0.0	kW
In standby mode	–	0.0	kW
Permanent pilot flame power requirement			
Pilot flame power requirement (if applicable)	–	–	kW

Item	Symbol	Value	Unit
Thermal efficiency (usefuel efficiency) (based on NCV)			
Thermal efficiency (useful efficiency) at nominal heat output	–	83.0	%
Thermal efficiency (useful efficiency) at minimum heat out put (indicative)	–	–	%
Type of heat output/room temperature control			
single stage heat output, no room temperature control			ja
two or more manual stages, no room temperature control			nein
with mechanic thermostat room temperature control			nein
with electronic room tempera ture control			nein
with electronic room tempera ture control plus day timer			nein
with electronic room tempera ture control plus week timer			nein
Other control options			
Room temperature control, with presence detection			nein
Room temperature control, with open window detection			nein
With distance control option			nein

[1] No entry is made for fireplaces without water-bearing components.

[2] Values for annual efficiency and emissions are to be given here for the preferred fuel.

[3] Values for annual efficiency and emissions shall be given here for all other suitable fuels.

[4] Corresponds to the part load heat output according to EN 16510.

[5] Angabe in mg/m3 bei Heated-Filter-Methode (gemäß Anhang III, Nummer 4, Buchstabe a, Ziffer i, Punkt 1) bzw. g/kg bei Messung im Verdünnungstunnel (gemäß Anhang III, Nummer 4, Buchstabe a, Ziffer i, Punkt 2 und 3.)

[6] Angabe in mg/m3 bei Heated-Filter-Methode (gemäß Anhang III, Nummer 4, Buchstabe a, Ziffer, i Punkt 1) bzw. g/kg bei Messung im Verdünnungstunnel (gemäß Anhang III, Nummer 4, Buchstabe a, Ziffer, i Punkt 2 und 3.)

[7] Here, information is only to be provided on the preferred fuel.