

Model identifier(s): Arc 7 Store Stand

Test laboratory: RRF

Notified body no: 1625

Test report no: 40 17 4493

Harmonized standards: EN16510-1:2022 EN16510-2-1

Designated fuel: Wood logs

Designation of appliance	Room sealed	Leakage declaration	Combustion air supply connection	Door closure	Tightness requirement
Type BE	[N.A.]	No	Yes	No specific requirement	No specific requirement

No.	Parameter	Unit	Explanation	Value
1	P_{NOM}	kW	The nominal heat output or a range of outputs (dependent on fuel types), rounded to the nearest one decimal place	7
2	P_{SHnom}	kW	The nominal space heat output or a range of outputs (dependent on fuel types), rounded to the nearest one decimal place	7.7
3	P_{Wnom}	kW	The nominal water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types), rounded to the nearest one decimal place	NPD
4	P_{part}	kW	The part load heat output or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	NPD
5	P_{SHpart}	kW	The part load space heat output or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	NPD
6	P_{Wpart}	kW	The part load water output (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	NPD
7	P_{slow}	kW	The heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	NPD
8	P_{SHslow}	kW	The space heat output at slow combustion or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	NPD
9	P_{Wslow}	kW	The water heat output at slow combustion (if an integral boiler is fitted) or a range of outputs (dependent on fuel types) if specified, rounded to the nearest one decimal place	NPD
10	$P_{\text{acc in}}$	kW	Accumulator heat input, in kW or W for kachelofen inset appliances only, rounded to the nearest one decimal place	NPD
11	$T_{\text{acc in}}$	°C	Temperature at the separate heat exchanger inlet, for kachelofen inset appliances only, rounded to the nearest integer	NPD
12	ζ_{acc}	Pa	The flow resistance of the separate heat exchanger as used in the test, for kachelofen inset appliances only, rounded to the nearest integer	NPD
13	η_{nom}	%	The appliance efficiency at nominal heat output, rounded to the nearest integer	79
14	η_{part}	%	The appliance efficiency at part load heat output, rounded to the nearest integer	NPD
15	η_{S}	%	The appliance seasonal space heating efficiency at nominal heat output, rounded to the nearest integer	69
16	EEI	-	The energy efficiency index, rounded to the nearest integer	105
17	CO_{nom} (13 % O ₂)	mg/m ³	Co emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	875
18	CO_{part} (13 % O ₂)	mg/m ³	Co emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	NPD
19	CO_{slow} (13 % O ₂)	mg/m ³	Co emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	NPD
20	NO_{xnom} (13 % O ₂)	mg/m ³	Nox emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	99
21	NO_{xpart} (13 % O ₂)	mg/m ³	Nox emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	NPD
22	NO_{xslow} (13 % O ₂)	mg/m ³	Nox emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	NPD
23	OGC_{nom} (13 % O ₂)	mg/m ³	Hydrocarbon emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	97
24	OGC_{part} (13 % O ₂)	mg/m ³	Hydrocarbon emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	NPD
25	OGC_{slow} (13 % O ₂)	mg/m ³	Hydrocarbon emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	NPD
26	"PM _{nom} (13 % O ₂)"	mg/m ³	Particulate matter emission at 13 % oxygen content at nominal heat output, rounded to the nearest integer	24
27	"PM _{part} (13 % O ₂)"	mg/m ³	particulate matter emission at 13 % oxygen content at part load heat output if specified, rounded to the nearest integer	NPD

No.	Parameter	Unit	Explanation	Value
28	PM_{slow} (13 % O ₂)	mg/m ³	Particulate matter emission at 13 % oxygen content at heat output at slow combustion if specified, rounded to the nearest integer	NPD
29	P_{nom}	Pa	Minimum flue draught at nominal heat output, rounded to the nearest integer	12
30	P_{part}	Pa	Minimum flue draught at part load heat output if specified, rounded to the nearest integer	NPD
31	P_{slow}	Pa	Minimum flue draught at heat output at slow combustion if specified, rounded to the nearest integer	NPD
32	P_W	kPa (bar)	The permissible maximum water operating pressure, if applicable, to be given with 1 decimal	NPD
33	d_R	mm	The minimum distances from the rear to combustible material, rounded to the nearest integer	150
34	d_S	mm	The minimum distances from the sides to combustible material, rounded to the nearest integer	270
35	d_C	mm	The minimum distances from the top to combustible material in the ceiling, rounded to the nearest integer	750
36	d_p	mm	The minimum distances from the front to combustible material, rounded to the nearest integer	1000
37	d_F	mm	The minimum distances from the front to combustible material in bottom front radiation area, rounded to the nearest integer	225
38	d_{s2}	mm	The minimum distances from the front to combustible material in side front radiation area, rounded to the nearest integer	1500
39	d_B	mm	The minimum distances below the bottom (not regarding feet) to combustible material, rounded to the nearest integer	0
40	d_{non}	mm	The minimum distances to non-combustible walls, rounded to the nearest integer	0 0 0 NPD
41	s	mm	Protective insulation according to manufacture r's instructions	0 0 0 0
42	el_{SB}	kW	The consumption of electrical auxiliary energy at standby, to be given with 3 decimals	NPD
43	el_{max}	kW	The consumption of electrical auxiliary energy at nominal heat output, to be given with 3 decimals	NPD
44	el_{min}	kW	The consumption of electrical auxiliary energy at part load heat output, to be given with 3 decimals	NPD
45	E, f	V, Hz	Power supply voltage, frequency, rounded to the nearest integer	NPD
46	W_{max}	W	Maximum electric power input, rounded to the nearest integer	NPD
47	T_{snom}	°C	The flue gas outlet temperature at nominal heat output, rounded to the nearest integer	365
48	T_{spart}	°C	"The flue gas outlet temperature at part load heat output, rounded to the nearest integer (to be given for pellet operation only)"	NPD
49	T_{class}	-	Chimney designation according to the appropriate chimney standard	T400 - G
50	$\phi_{f,g nom}$	g/s	The flue gas mass flow at nominal heat output, rounded to the nearest one decimal place	5.3
51	$\phi_{f,g part}$	g/s	The flue gas mass flow at part load heat output rounded to the nearest one decimal place (to be given for pellet operation only)	NPD
52	V_h	m ³ /h	The standing air loss, if specified, rounded to the nearest one decimal place	NPD
53	CON or INT	-	Whether the appliance is capable of continuous operation (con), whether the appliance is capable of intermittent operation (int)	INT
54	d_{out}	mm	The diameter of the flue gas outlet, rounded to the nearest integer	166
55	L, H, W	mm	The overall dimensions of the appliance (length, height, width), rounded to the nearest integer	
56	m	kg	Mass of the appliance, rounded to the nearest integer (Packed)	171
57	m_{chim}	kg	The maximum load of a chimney the appliance may carry, to be rounded to the nearest integer	120
58		-	Meaning "read and follow the user operating instructions"	NPD

NOTE 1 For minimum clearance distances see 'Specifications' in Installation Instructions and following diagram

Please see table on Page 2 of 3 for for figures.

