



Manufacturer	Harrie Leenders Haardkachels	Indirect heating function	No
Model identifier	Ysen	Direct heat output (kW)	9,9 kW
Equivalent models		Indirect heat output (kW)	- kW
Test report nr.	EZKA/2018-05/00002-3	Seasonal space heating efficiency η_s [%]	72,3
Testing conditions	Tested according EN13240:2001/A2:2004	Energy efficiency index (EEI)	108,9
Harmonized European standard	EN13240:2991/A2:2004/AC:2007		

Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Emissions at nominal heat output [mg/Nm ³ (13% O ₂)](*)				Emissions at minimum heat output [mg/Nm ³ (13% O ₂)](**)			
			PM	OGC	CO	NO _x	PM	OGC	CO	NO _x
Wood logs, moisture content < 25 %	yes	no	40	120	1250	200	N/A	N/A	N/A	N/A
Compressed wood, moisture content < 12%	no	yes	40	120	1250	200	N/A	N/A	N/A	N/A
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								

Characteristics when operating with the preferred fuel

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Heat output				Useful efficiency (NCV as received)			
Nominal heat output	P _{nom}	9,9	kW	Useful efficiency at nominal heat output	$\eta_{th, nom}$	81,3	%
Minimum heat output (indicative)	P _{min}	N/A	kW	Useful efficiency at minimum heat output	$\eta_{th, min}$	N/A	%

Auxilliary power consumption

Auxilliary power consumption				Type of heat output/room temperature control	
At nominal heat output	e _{l max}	N/A	kW	Single-stage heat output, no room temperature control	No
At minimum heat output	e _{l min}	N/A	kW	Two or more manual stages, no room temperature control	Yes
In standby mode	e _{l SB}	N/A	kW	With mechanic thermostat room temperature control	No
Permanent pilot flame power requirement				With electronic room temperature control	No
Pilot flame power requirement	P _{pilot}	N/A	kW	With electronic room temperature control plus day timer	No
				With electronic room temperature control plus week timer	No
				Other control options (multiple selection possible)	
				Room temperature control, with presence detection	No
				Room temperature control, with open window detection	No
				With distance control option	No

General description	Freestanding solid fuel local space heater without hot water supply
Specific precautions for assembly, intallation or maintenance	Precautions for assembly, installation and maintenance are described in the Manual Lobbe and Installation instruction Lobbe.
Calculations	$EEI = (\eta_{s, on} \cdot BLF) - 10\% + F(2) + F(3) - F(4) - F(5)$ $\eta_s = \eta_{s, on} - 10\% + F(2) + F(3) - F(4) - F(5)$ $\eta_{s, on} = \eta_{th, nom}$

(*) PM = Particulate Matters, OGC = Organic Gaseous Compounds, CO = Carbon Monoxide, NO_x = Nitrogen Oxides.

(**) Only required if corrections F(2) or F(3) are being used.