

# MCZ GROUP

## TECHNICAL DOCUMENTATION FOR LOCAL SPACE HEATERS ACCORDING TO COMMISSION REGULATION (EU) 2015/1186

Manufacturer	MCZ GROUP SpA
Trademark	SERGIO LEONI
Model Identifier	LIBERTY E
Indirect heating functionality	no
Direct heat output (space heat output)	10,0 kW
Indirect heat output (water heat output)	kW
CPR harmonised standard	EN 13240:2001/A2:2004/AC:2006
General description of the local space heater	Manually fed roomheater burning wood logs
Notified Body	ACTECO SRL (N.B. 1880) Via Amman 41, 33084 Cordenons (PN), IT

Fuel	Preferred fuel (only one)	Other suitable fuel(s)	$\eta_s$ [%]	EEl [%]
Log wood, moisture content $\leq 25$ %	yes	no	70,1	106
Compressed wood with moisture content $< 12$ %	no	no		
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		

### Calculations according to the council commission regulation (EU) 2015/1186 and 2015/1185

#### Characteristics when operating with the preferred fuel

$$EEI = (\eta_{S,on} \cdot BLF) - 10 \% + F(2) + F(3) - F(4) - F(5)$$

$$BLF = 1,45$$

$$\eta_{S,on} = \eta_{th,nom} \quad \eta_s = \eta_{S,on} - 10\% + F(2) + F(3) - F(4) - F(5)$$

Observe the specific precautions for installation, assembly and maintenance indicated in the manual accompanying the product

Energy Efficiency Class **A** up to 2022

**Characteristics when operating with the preferred fuel**

Heat output			
Item	Symbol	Value	Unit
Nominal heat output	P <sub>nom</sub>	<b>10,0</b>	kW
Minimum heat output (indicative)	P <sub>min</sub>		kW

Auxiliary electricity consumption			
Item	Symbol	Value	Unit
At nominal heat output	e <sub>lmax</sub>		kW
At minimum heat output	e <sub>lmin</sub>		kW
In standby mode	e <sub>lsub</sub>		kW

$$F(4) = CC \cdot \frac{0,2 \cdot e_{lmax} + 0,8 \cdot e_{lmin} + 1,3 \cdot e_{lsub}}{P_{nom}} \cdot 100[\%]$$

**F(4) = 0,0 %** CC = 2,5

Useful efficiency (NCV as received)			
Item	Symbol	Value	Unit
Useful efficiency at nominal heat output	η <sub>th,nom</sub>	<b>80,1</b>	%
Useful efficiency at minimum heat output (indicative)	η <sub>th,min</sub>		%

Type of heat output/room temperature control (select one)	
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

**F(2) = 0,0 %** up to 2022

Permanent pilot flame power requirement			
Item	Symbol	Value	Unit
Pilot flame power requirement (if applicable)	P <sub>pilot</sub>	<b>N.A.</b>	kW

$$F(5) = 0,5 \cdot \frac{P_{pilot}}{P_{nom}} \cdot 100[\%]$$

**F(5) = 0,0 %**

Other control options (multiple selections possible)	
room temperature control, with presence detection	NO
room temperature control, with open window detection	NO
with distance control option	NO

**F(3) = 0,0 %** up to 2022

**Contact details**

Name and address of the manufacturer  
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