

MCZ GROUP

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

| | |
|---|--|
| Manufacturer | MCZ GROUP SpA |
| Trademark | MCZ |
| Model Identifier | VIVO 90 COMFORT AIR 9 M1 |
| Indirect heating functionality | no |
| Direct heat output (space heat output) | 8,9 kW |
| Indirect heat output (water heat output) | kW |
| CPR harmonised standard | EN 14785:2006 |
| General description of the local space heater | Mechanically fed inset burning wood pellets |
| Notified Body | ACTECO SRL (N.B. 1880) Via Amman 41, 33084 Cordenons (PN), IT |

| Fuel | Preferred fuel (only one) | Other suitable fuel(s) | η_s [%] | EEl [%] |
|--|---------------------------|------------------------|--------------|---------|
| Log wood, moisture content ≤ 25 % | no | no | | |
| Compressed wood with moisture content < 12 % | yes | no | 88,4 | 130 |
| 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_{nom} | 8,9 | kW |
| Minimum heat output (indicative) | P_{min} | 2,5 | kW |

| Auxiliary electricity consumption | | | |
|-----------------------------------|------------|--------------|------|
| Item | Symbol | Value | Unit |
| At nominal heat output | el_{max} | 0,106 | kW |
| At minimum heat output | el_{min} | 0,014 | kW |
| In standby mode | el_{sb} | 0,004 | kW |

$$F(4) = CC \cdot \frac{0,2 \cdot el_{max} + 0,8 \cdot el_{min} + 1,3 \cdot el_{sb}}{P_{nom}} \cdot 100[\%]$$

$$F(4) = 1,1 \% \quad CC = 2,5$$

| Permanent pilot flame power requirement | | | |
|---|-------------|-------------|------|
| Item | Symbol | Value | Unit |
| Pilot flame power requirement (if applicable) | P_{pilot} | N.A. | kW |

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

$$F(5) = 0,0 \%$$

| Useful efficiency (NCV as received) | | | |
|---|-----------------|-------------|------|
| Item | Symbol | Value | Unit |
| Useful efficiency at nominal heat output | $\eta_{th,nom}$ | 92,4 | % |
| Useful efficiency at minimum heat output (indicative) | $\eta_{th,min}$ | 95,7 | % |

| Type of heat output/room temperature control (select one) | |
|---|-----|
| single stage heat output, no room temperature control | NO |
| 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 | YES |

$$F(2) = 7,0 \% \quad \text{up to 2022}$$

| 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 |

$$F(3) = 0,0 \% \quad \text{up to 2022}$$

Contact details

Name and address of the manufacturer
 MCZ GROUP SPA
 Via La Croce, 8
 33074 Vigonovo di Fontanafredda (PN)
 Italy

Tel. +39 0434 599599
www.mczgroup.com
contact@mcz.it

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MCZ GROUP S.p.A.
 Via La Croce, 8 - 33074 VIGONOVO di F.FREDDA (PN)
 Tel. +39 0434 599599 - Fax +39 0434 599598
 Cod.Fisc., P.IVA IT 01791730938

Alessandro Di Bacco
Alessandro Di Bacco
 (Legal Representative)