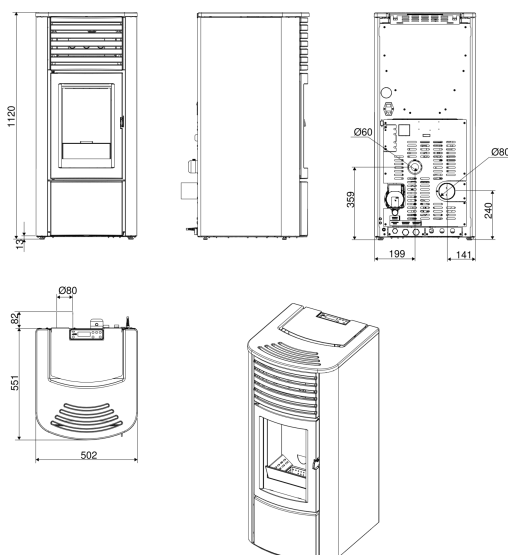


EN 16510
BlmSchV Stufe 2
Regensburger BStV / Aachener BStV / Munchener BStV
ART.15a B-VG / LRV
5 stelle DM.186 / Conto Termico 3.0



Heating technical data

Appliance Type (tightness)	CM50
Nominal and partial load heat output	18 / 4.9 kW
Nominal and partial load water heat output	13.2 / 3.1 kW
Efficiency at nominal and partial load heat output	92.8 / 94.3 %
Energy class (scale A++/G)	A++
Energy efficiency index	131 %
Seasonal space heating efficiency	90 %
Flue gas outlet temperature at nominal heat output**	146 °C
Flue gas outlet temperature at part load heat output**	81 °C
CO / PM / OGC / NOx at 13% O ₂ at nominal heat output	98 / 7 / 1 / 98 mg/Nm ³
CO / PM / OGC / NOx at 13% O ₂ at partial load heat output	225 / 12 / 3 / 95 mg/Nm ³
CO ₂ at nominal and partial load heat output	13.1 / 7 %
Boiler liters content	14 l
Permissible maximum water operating pressure	2 bar / 200 kPa
Minimum flue draught at nominal heat output ****	10 Pa
Minimum flue draught at partial load heat output ****	5 Pa
Flue gas mass flow at nominal and partial load heat output	10.8 / 5.1 g/sec
Pellet tank capacity (litres/kg) *	43 l / 28 kg
Fuel type	Wood Pellet (L)
Fuel dimensions	Ø6mm L3÷40mm
Fuel consumption at nominal and partial load heat output *	4 / 1.1 kg/h
Pellet tank autonomy at nominal and partial load heat output*	7 / 26 h
Heatable volume ***	327 / 514 / 900 m ³
Combustion air inlet diameter (mm)	Ø 60 mm
Ventilation air intake section (cm ²)	80 cm ²
Diameter of the flue gas outlet	Ø 80 mm
Electrical consumption at nominal heat output (and during ignition)	126 W (max 380 W)
Power supply voltage and frequency	230 Volt / 50 Hz
Mass of the appliance	190 kg
Minimum distance to combustible materials (rear/side/bottom)	40 / 200 / 0 mm
Minimum distance to combustible materials (front/ceiling)	1000 / 750 mm

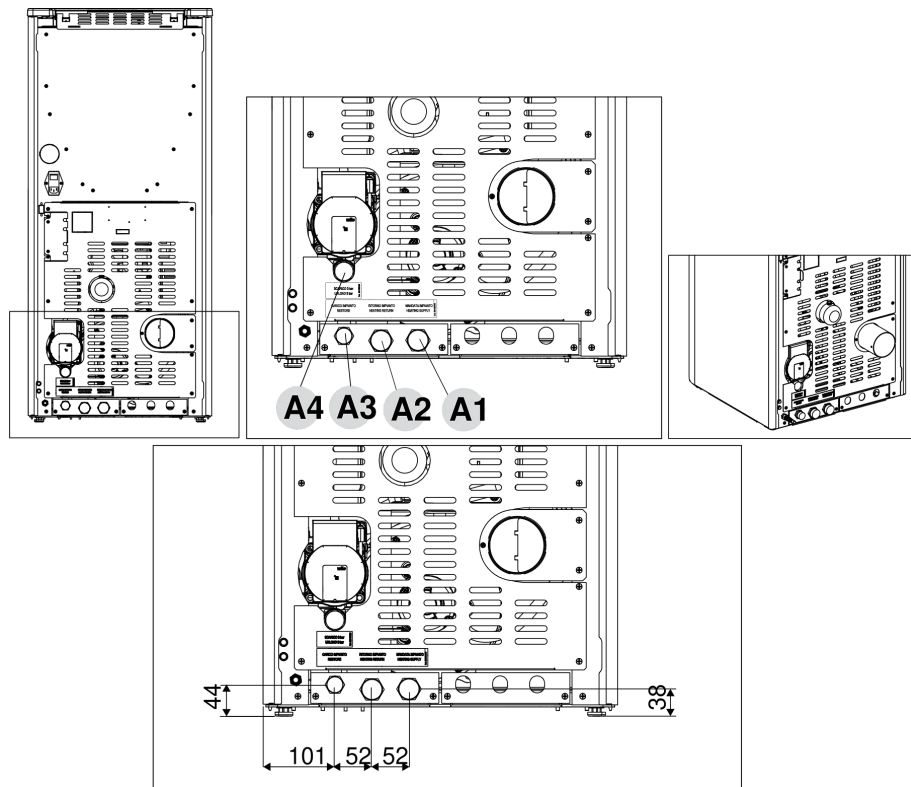
* Values that can vary due to the used combustible

** Flue gas temperature at the appliance outlet, to be used in the chimney sizing calculation (according to EN 13384-1)

*** Heatable volume depending on the power required per m³ (respectively 55–35–20 W/m³)

**** Consider a minimum draught of 2 Pa in the EN 13384-1 chimney dimensioning calculations

Hydraulic system connection



A1 = Heating water supply
A2 = Heating water return
A3 = System filling / Domestic cold-water inlet
A4 = System drain
A5 = Domestic hot-water outlet



It is strongly recommended to flush the entire system before connecting it in order to remove residues and deposits. Always install shut-off valves upstream of the stove to isolate it from the water system should it be necessary to move it for ordinary and/or extraordinary maintenance. Connect the stove using flexible pipes to avoid excessively constraining the stove to the system and to allow slight movements.