



TECHNICAL DOCUMENTATION FOR SOLID FUEL BOILERS ACCORDING TO COMMISSION REGULATION (EU) 2015/1187 AND 2015/1189

Manufacturer	JOLLY-MEC CAMINETTI SPA - Via San Giuseppe, 2 - Telgate (BG) - 035/8359211		
Trademark	JOLLY MEC		
Model Identifier	J20		
Based test report	K 3042 2021 Z1		
Description	Solid Fuel Boiler fired by wood pellets		
Stoking Mode	automatic		
Minimum recommended volume of hot water storage tank	376	liters	
Condensing Boiler	no		
Solid fuel cogeneration boiler	no	Combination boiler	yes
Useful heat output at rated heat output (P _n)	19	kW	
Test according	EN 303-5:2012		
Notified Body	TÜV Rheinland Energy GmbH NB 2456, Test Centre for Energy Appliances - Am Grauen Stein, 51105 Köln, Germania		

Fuel	Preferred fuel (only one)	Other suitable fuel(s)	η _s [%]	EEI [%]	Seasonal emissions at 10% oxygen			
					PM [mg/m ³]	OGC [mg/m ³]	CO [mg/m ³]	NO _x [mg/m ³]
Log wood, moisture content ≤ 25 %	no	no						
Compressed wood with moisture content < 12 %	yes	no	79	116	21	3	258	127
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) 2015/1187 and (EU) 2015/1189
Characteristics when operating with the preferred fuel

$$\eta_s = \eta_{son} - F(1) - F(2) + F(3)$$

$$\eta_{son} = 0,85 \times \eta_p + 0,15 \times \eta_n$$

$$F(1) = 3$$

$$F(2) = 2,5 \times (0,15 \times e_{l_{max}} + 0,85 \times e_{l_{min}} + 1,3 \times P_{sb}) / (0,15 \times P_n + 0,85 \times P_p)$$

$$EEI = \eta_{son} \times 100 \times BLF - F(1) - F(2) \times 100 + F(3) \times 100$$

$$BLF = 1,45$$

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

Energy Efficiency Class **A+**



Characteristics when operating with the preferred fuel

Heat output			
Item	Symbol	Value	Unit
Nominal heat output	P _n	18,8	kW
Minimum heat output	P _p	5,3	kW

Useful efficiency (GCV)			
Item	Symbol	Value	Unit
Useful efficiency at nominal heat output	η _n	87,4	%
Useful efficiency at minimum heat output	η _p	81,8	%

Total energy input expressed as GCV			
Item	Symbol	Value	Unit
Nominal heat output	P _{nom}	21,5	kW
Minimum heat output	P _{min}	6,5	kW

Auxiliary electricity consumption			
Item	Symbol	Value	Unit
At nominal heat output	e _{l_max}	0,035	kW
At minimum heat output	e _{l_min}	0,015	kW
In standby mode	e _{l_sb}	0,003	kW

Total energy input expressed as GCV		
Item	Value	Unit
Quantity of fuel nominal	4,2	kg/h
Quantity of fuel minimum	1,3	kg/h

F (2) 0,8 %

Contact details

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