OPTIMAJOR PLUS

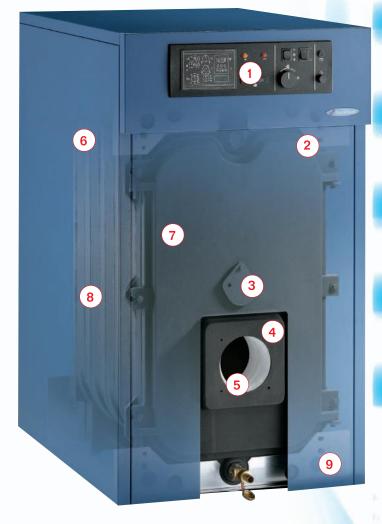


<u>OPTIMAJOR PLUS</u>

Saint Roch Hypoeutectic Cast Iron

Since 1903 Saint Roch
Couvin Has been a leading
innovator in the casting
technology in Belgium.
Saint Roch boilers are well
known for their very long
life and high output due to
the Saint Roch hypoeutectic
grey cast iron alloy.

- 10 model range from : 70 kW - 235 kW.
- Saint Roch Hypoeutectic Cast Iron.
- Operates with forced draught oil or gas burners.
- 92-93 % efficiency on net calorific values.
- Operates at low or sliding temperatures.
- Resistant to condensation.
- 6 bar working pressure.
- Economizer.
- Refractory corde between elements.
- Ideal for collective applications (Ecogroupage).
- Wide range of optional control panels.
- Economic/Energy Saving/Eco-Friendly.
- 10 Year Guarantee.



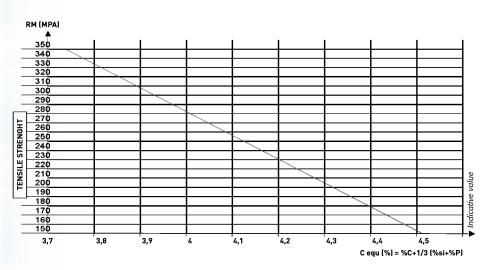
- 1 Control panel
- 2 Stoved sheet steel jacket. Easy assembly
- 3 Flame inspection hole with chamber pressure measurement
- Burner door opening to right or left factory bored on request
- Door insulation 30 mm ceramic fibre and 30 mm glass fibre

- 6 2x50 mm high density glass wool insulation on boiler body and casing
- 7 Horizontal cleaning traps front and rear providing acess to heat exchange surfaces
- 8 Cast iron boiler body
- 9 Ø 50x60 flange for sludge drain



PTIMAJOR PL

Saint Roch Hypoeutectic Grey Cast Iron



The Saint Roch Cast Iron makes the ideal compromise between tensile strenght and brinell Hardness. It provides optimal heat storage and transfer with it's fine and regular graphite repartition.

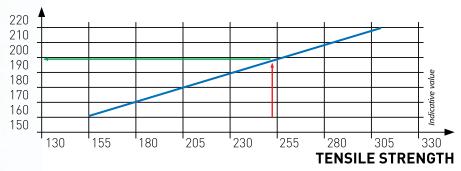
HYPOEUTECTIC GREY CAST-IRON FLAKE GRAPHITE

- HIGH SI CONTENT
 - Homogeneous fine flake graphite distribution.
 - Pearliet-ferrite structure
- LOW PHOSPOR CONTENT
 - Excellent moulding capacity.
 - Less production of steatite (fragility of the cast-iron)
- Excellent heat transmission
- Water corrosion resistant (Pearliet structure)
- High mechanical strength
- Excellent thermal shocks resistance



Flake graphite

Hb (Brinell hardness)



TENSILE STRENGHT $\wp = \frac{F}{S}$



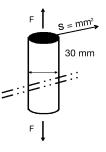
	6	<i>℘</i> .
GG 20	20 kg/mm²	196 N/mm²
GG 25	25 kg/mm ²	245 N/mm²
Saint Roch	24,36 kg/mm ²	238,6 N/mm²

Indicative value

Indicative value



The higher "s" the higher F



OPTIMAJOR PLUS

State of the Art Element Engineering

The heating elements are engineered to ensure high efficiency and boiler safety. The combustion chamber is equipped with fins ensuring exposure to burner heat, preventing the formation of dangerous inner stresses and reducing noise levels.

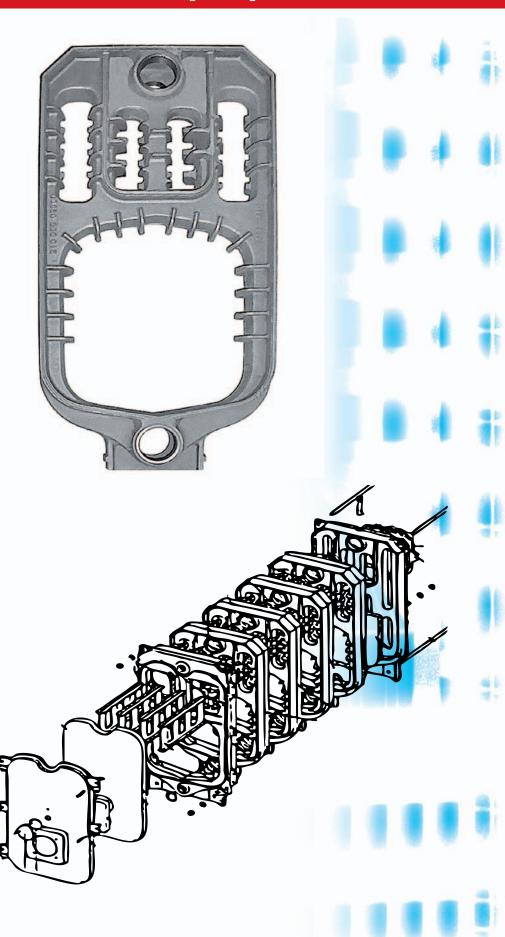


The elements are designed with grooves on both sides, where a refractory cord is fitted.

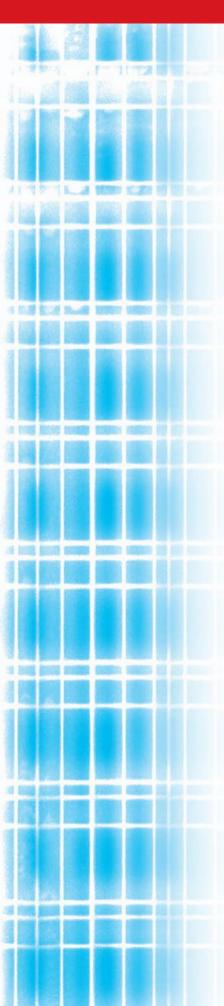
The refractory cord adapts to the expansion and shrinking of the heating elements.



The Optimajor Plus is equiped with an economizing system to ensure higher efficiency and lower energy consumption.



OPTIMAJOR PLUS



TRIPLE INSULATION SYSTEM

100 mm thick high density glass wool covering the cast iron body. The combustion chamber door is insulated with 30 mm Ceramic fiber and 30 mm glass wool. Inter-element insulation provided by the refractory cords fitted between the elements. The triple insulation system prevents smoke leakage and heat losses, increasing boiler efficiency.

LOW TEMPERATURE

Thanks to the condensation resistant Saint Roch Cast Iron, the Optimajor Plus can operate at low and sliding temperatures.

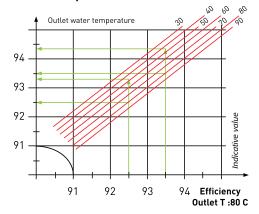
OPTIMAJOR PLUS					
Model	Heat Power	Pressure	△T° flue	Effiency	
	(kW)	(mbar)	°C	%	
5	70	0.15	229	90.6	
6	94	0.24	241	90.1	
7	111	0.30	237	90.3	
8	129	0.37	236	90.3	
9	146	0.43	233	90.4	
10	163	0.49	231	90.5	
11	180	0.56	230	90.6	
12	198	0.63	230	90.6	
13	216	0.71	229	90.6	
14	235	0.79	230	90.6	

Indicative value

92-93% EFFICIENCY

The Optimajor Plus has 92-93 % efficiency on net calorific values.

Corrected boiler efficiency %



EASY MAINTENANCE

The Optimajor Plus is designed with a hinged door that pivots left and right allowing complete access to the entire boiler body which makes cleaning the boiler such an easy task.



