ULTRA PFC

CAST IRON OIL CONDENSING BOILER

Rated Output:
21.8 KW - 34.9 KW

ErP ready

Saint Roch

Saint Roch

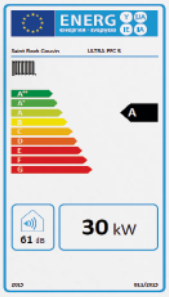
ULTRA PFC

- SAINT ROCH
  Hypoeutectic grey cast iron
- 3 model range from:
  21.8 kw - 34.9 kw
- Efficiency:
  at 30% charge 97-98.1%
  at 100% charge 90.3-90.9%
- Operates with forced
  Blue flame oil burners
- Resistant
  to condensation
- Operates at low or sliding
  temperatures
- 4 Bar working
  pressure
- Hinged door for easy
  maintenance
- 10 year guarantee
- Economic/energy saving
  eco-friendly

The SAINT ROCH Ultra is a medium power boiler that can be equipped with a forced draught oil or gas burner.

It has a cast iron body and an anti-corrosion combustion chamber.

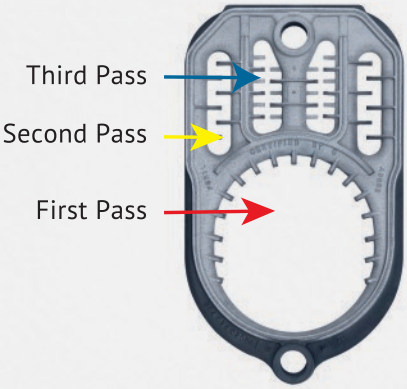
The SAINT ROCH Ultra satisfies all individual and collective domestic heating needs.



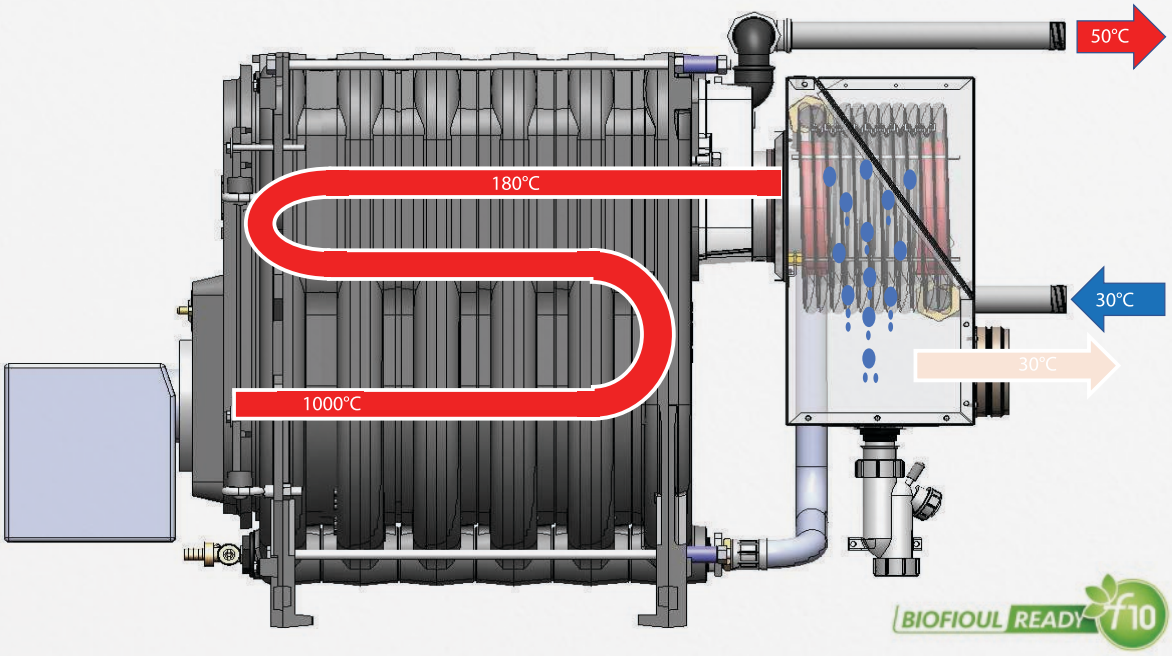
3 Pass Boiler Design

The heating elements are engineered to ensure high efficiency and boiler safety.

The advanced element engineering ensures full exposure to burner heat, preventing the formation of dangerous inner stresses and reducing noise levels.



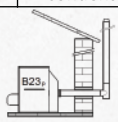
Saint Roch Recuperator



The heat recuperator is a device mounted on the SAINT ROCH boiler that allows it to increase the efficiency of the boiler based on the principle of latent heat from the exhaust of the combustion that is used to heat the water.
In this way the exhaust fumes, instead of being wasted as a residue of the combustion, are used to improve the efficiency of the boiler.
The recuperator consists of a special casing containing a double coil made of stainless steel for corrosion-free durability in time.

Technical Data

Technical parameters applicable to space heating appliances

Product designation			**Ultra PFC 4**	**Ultra PFC 5**	**Ultra PFC 6**
Boiler type			condensation	condensation	condensation
Permissible exhaust configurations			**B23p** 		
Burner (manuf.) RIELLO					
ECODESIGN CHARACTERISTICS					
Energy efficiency for space heating	☐s (*)	%	91 A	92 A	91 A
Power output at full load (100 %)	P4	kW	21.8	28.3	34.9
Power output at part load (30 %)	P1	kW	6.6	8.6	10.5
Annual energy consumption	Q_{HE}	kWh	19165	24609	30681
Sound level	L_{WA}	dB	60	60	61
Efficiency full load (100 % H_S)	☒4	%	90.9	90.9	90.3
Efficiency part load (30 % H_S)	☒1	%	97.6	98.1	97
Auxiliary power consumption					
Full load (100 %)	elmax	W	201	201	201
Part load (30 %)	elmin	W	67	67	67
In-stand-by mode	P_{SB}	W	0	0	0
Heat loss during shutdown (ΔT30)	P_{STBY}	W	120	122	125
DATA RELATED TO PCI (Hi)					
Nozzle on burner (Steinen 80°)		GPH/bar	0,50 / 80°HT / 12	0,65 / 80°HT / 15	0,75 / 80°HT / 15
Furnace power output (Qn)		kW	22.5	29.2	36.2
combustion efficiency at 80/60		%	98.1	98.1	98.0
Net efficiency at 100 % (full load)		%	97.0	97.0	96.4
Net efficiency at 30 % (part load)		%	104.2	104.7	103.5
HYDRAULICS					
Water content		L	13.5	16.4	19.0
Maximum service pressure		bar	4	4	4
Minimum flow rate		L/h	270	370	450
Maximum water temperature		°C	90	90	90
Load losses ΔT 15K		mb	70	130	190
COMBUSTION					
NOx class as per sEN267		-			
Flue gas temp. at full load (80/60)		°C			
POWER SUPPLY					
Voltage		VAC	Class 3	Class 3	Class 3
Water overheating thermostat set-point		°C	< 70	< 70	< 70
OVERALL DIMENSIONS					
Heating water inlet / outlet		''	1''	1''	1''
Drain cock orifice		''	1/2''	1/2''	1/2''
Flue gas outlet diameter		mm	100	100	100
Empty weight		kg	190	210	230

* ☐s : *efficiency value to be entered in box (I) on the system overall efficiency calculation sheet*

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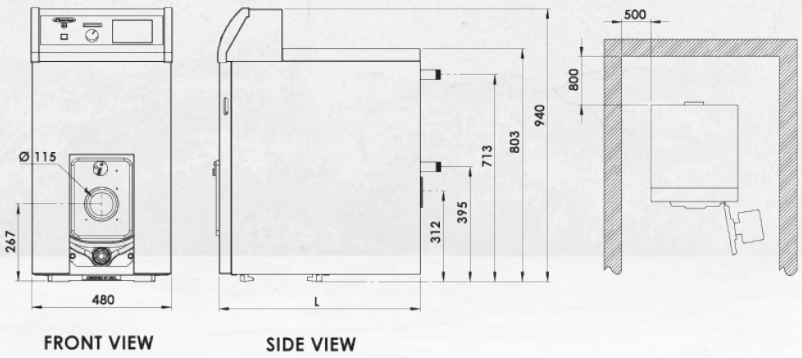
MODEL	4	5	6
L (mm)	680	760	840



FRONT VIEW SIDE VIEW

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