

Ferrol

SOLID FUEL BOILERS



> *THE FLEXIBLE ALTERNATIVE*

Ferrolli solid fuel solution constitutes an economic and reliable alternative to traditional fuels, without giving up efficiency and ease-of-use.

Solid fuel boilers recently rescued a fair success in european markets.

Lot of people re-thought their way of getting their home warmth using friendly systems fed by solid fuel.

As a matter of fact, heating with wood implies multiple advantages, for instance:

- > Economic and steady in price, when it is not self-produced.
- > Fuel local production (zero-km supply).
- > Neutral environmental balance.
- > Independence from fossil fuels supply.

Such advantages can be fully enjoyed and even boosted through a Ferrolli boiler, thanks to its proven, solid construction and its reliable and safe operation.

On the other hand, also pellet offers interesting advantages, such as:

- > Automatic operation: pellet is somewhat a "liquid" fuel, it can be automatically conveyed to the boiler according to system requirements and heat planning.
- > Simple, clean stocking and handling by the user.

Ferrolli solid fuel boilers can be upgraded for additional pellet working, thus combining wood advantages with fully modulating, efficient, ecological operation, which is the peculiarity of Ferrolli pellet solutions. As a consequence the boiler can be fed alternatively with wood or pellet, according to the user wish.



> *The range*

> SF



5 models
outputs from 12,3 to 27,5 kW
(burning wood)

> SFL



5 models
outputs from 19 to 50 kW
(burning wood)

> SUN P

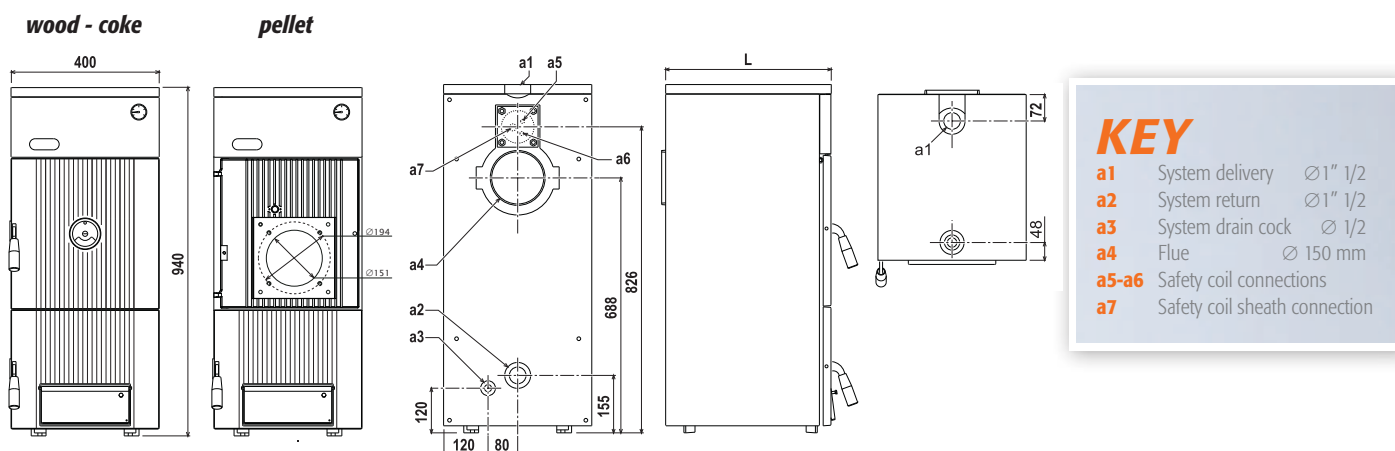


2 models
SUN P7, power 13,7÷34,1 kW
SUN P12, power 30÷55 kW



- > Cast-iron floor standing heat generator, wood or coke fired in the basic version, or pellet or oil fired with the addition of the corresponding conversion kit.
- > G20 cast-iron boiler body made from pre-assembled sections, insulated by a layer of rockwool lined externally by a tearproof aluminium film.
- > Front ash door and removable ash tray.
- > Manual control damper on the rear flue gas outlet.
- > Safety valve and coil kit set for intervention at 95°C (supplied as accessories).
- > Quality of combustion is guaranteed by a system that adjusts the air inlet, controlled by a thermostatic regulator (supplied as a kit).
- > Optional conversion kit for fitting the door with pellet burner.

> DIMENSIONS AND TECHNICAL DATA

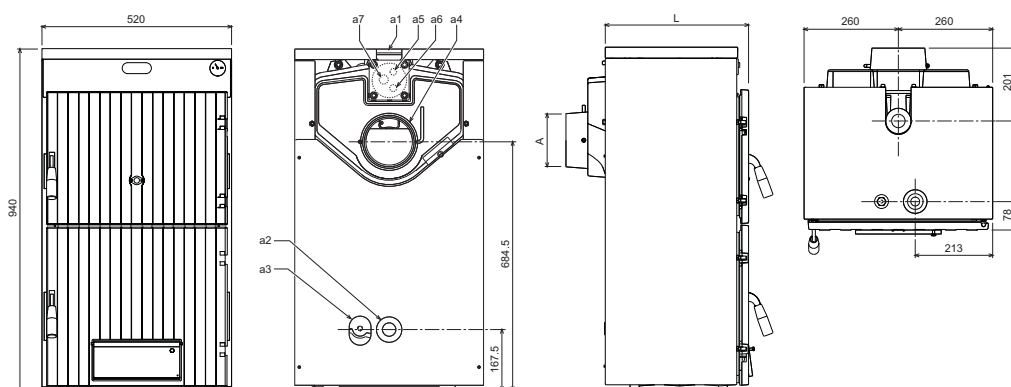


MODEL				4	5	6	7	8
Heat output	Coke	kW		14,4	19,4	23,4	29,4	34,4
	Wood	kW		12,3	16,1	19,9	23,7	27,5
	Pellet	kW		16,0	20,0	24,0	27,0	30,0
Sections quantity		no.		4	5	6	7	8
Burner matching				SUN P7	SUN P7	SUN P7	SUN P7	SUN P7
Boiler water capacity		lts		20	24	28	32	36
Chamber content		dm ³		33	44	54	65	75
Boiler depth (L)		mm		450	550	650	750	850
Combustion chamber depth		mm		330	430	530	630	730
Operating pressure	min-max	bar		0,1-3	0,1-3	0,1-3	0,1-3	0,1-3
Weight		kg		160	190	220	250	280



- > High yield GG 20 (EN-GJL-200) cast iron solid fuel boiler, fit for wood or coke combustion.
- > Pellet operation after assembling of the burner plate and the pellet burner SUN P.
- > Class 3 efficiency according to EN 303-5:1999.
- > Generous combustion chamber, until 128 dm³, which allows burning of large logs and less wood refuelling.
- > Adjustable smokes deflector on back flues outlet.
- > Stainless steel ash tray with easy front access.
- > Thermostatic regulator supplied as a standard.
- > Safety overheating device available as an optional.

> DIMENSIONS AND TECHNICAL DATA

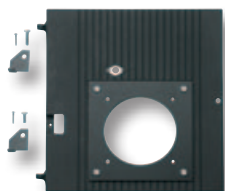


KEY

- a1** System delivery Ø1" 1/2
- a2** System return Ø1" 1/2
- a3** System drain cock Ø 1/2
- a4** Chimney stack
- a5-a6** Safety coil connections
- a7** Safety coil sheath connection

MODEL			3	4	5	6	7
Thermal output	Coke	kW	22,5	32,5	42,5	52,5	62,5
	Wood	kW	19,0	27,0	36,0	43,0	50,0
	Pellet	kW	22,0	30,0	41,0	47,9	54,7
Sections quantity		no.	3	4	5	6	7
Burner matching			SUN P7	SUN P7	SUN P12	SUN P12	SUN P12
Water content		l	26	30	34	38	42
Chamber content		dm ³	48	68	88	108	128
Depth (L)		mm	423	533	643	753	863
Chimney diameter (A)		mm	150	150	150	180	180
Combustion chamber depth		mm	250	360	470	580	690
Operating pressure	min-max	bar	0,1-4	0,1-4	0,1-4	0,1-4	0,1-4
Weight		kg	193	241	289	337	385

> PELLET CONVERSION KIT



SF's optional pellet burner door

SF - SFL: SINGLE DOOR SOLUTION

It is possible to adapt all SF or SFL for the installation of the pellet burner. For this purpose a drilled burner door with insulation is available as an option. It is a specific and different one for SF or SFL. For SF it replaces the original top wood door whereas for SFL it replaces the lower door.



SF modified for pellet operation

SFL: DOUBLE DOOR SOLUTION

In case SFL is wished to be fuelled with pellet, an optional conversion kit can be ordered and installed anytime. A specific pellet door is to be hinged on the left side of the boiler, without removing the original wood one, which remains hinged at the right side. The reversible pellet conversion kit is equipped with a microswitch in the package. It has to be installed on the door support and interrupts burner electric supply whenever the burner door is opened.



Thanks to this DOUBLE DOOR SYSTEM it is possible to switch retroactively fuel type with very few, quick operations, thus allowing the user to enjoy advantages of pellet and wood according to his needs, his desires and his supply of fuel. Simple and economic wood operation can be alternated whenever required with practical, clean, highly efficient, programmable pellet operation with the utmost FLEXIBILITY.



PELLET



FUEL CONVERSION



WOOD



- > Pellet jet burner with one stage operation or modulating on 5 output steps.
- > Supplied with feeding motor, worm feeder assembly, connection pipes.
- > Pellet holding tank as an optional, in two capacities, 195 lts and 350 lts.
- > Burner first ignition through electric heater.
- > Heat request occurs through:
 - built-in timer or external (room or buffer tank) thermostat
 - built-in timer together with external (room or buffer tank) thermostat
 - programmable thermostat only (burner timer excluded).
- > Solid cast aluminium frame and high-temperatures resistant stainless steel head.
- > Safety thermostat for flue gas back-flow, set to 85° C.
- > Practical pre-cabled wiring on the right of the casing, for connection to burner and system ancillaries.
- > Certified according to DIN EN 15270.



The onboard electronic interface facilitates adjustment by the installer as regards fan's operation, screw activation, pellet loading, heating slope and output, self-diagnostic and other functions. The user can set the internal timer according to a weekly plan, with 4 events per day.

Different combinations of pre-set weekly programs are also available for direct setting or further customisation. Burner's switch on/off can of course occur fully manually, in case of particular or unexpected requirements of the user.

> COMPONENTS

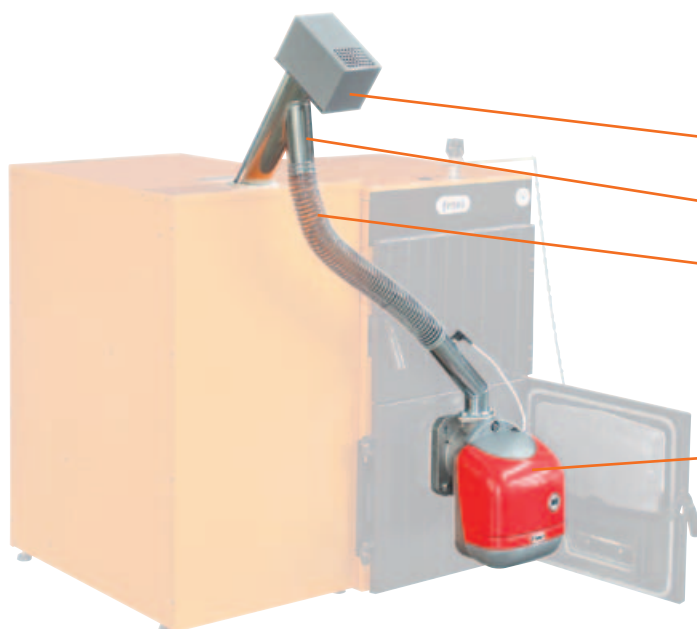
SUN P is supplied as a complete set, in 2 cartons.

One carton with:

- A** feeding motor
- B** screw feed assembly
- C** PVC flexible feeding pipe

One carton with:

- D** burner unit



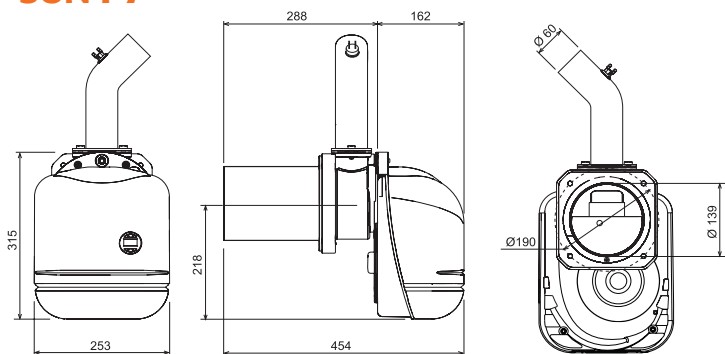
> OPTIONAL PELLET HOLDING TANK



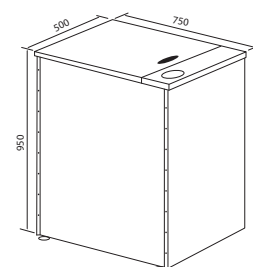
FERROLI offers as an option a pellet holding tank, featuring same aesthetic of the boiler. It can be positioned on the right or left side of the boiler and features reversible top cover for pellet worm feeder insertion. The pellet holder is in orange color, coated with epoxy powder anaphoresis process. It is available either in the 195 or 350 lts capacity. The container has been studied to permit regular and fluid supply of pellet into the motor screw and as a consequence a constant fuel feed to the burner. Adopting a complete FERROLI system (pellet stockage, feeder, burner, boiler) means complete operation synchronisation and functionality.

> DIMENSIONS AND TECHNICAL DATA

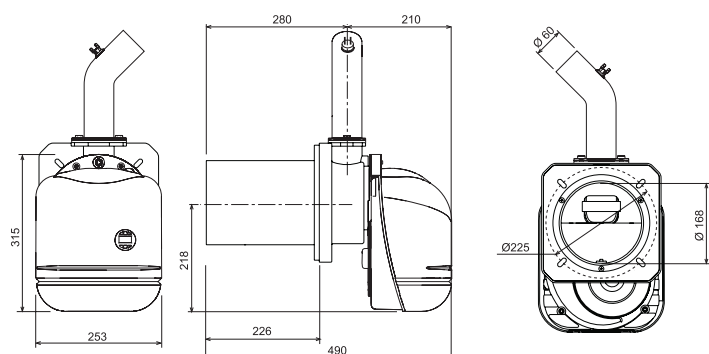
SUN P7



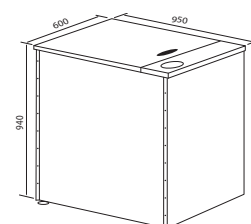
Pellet holding tank 195 lts >



SUN P12

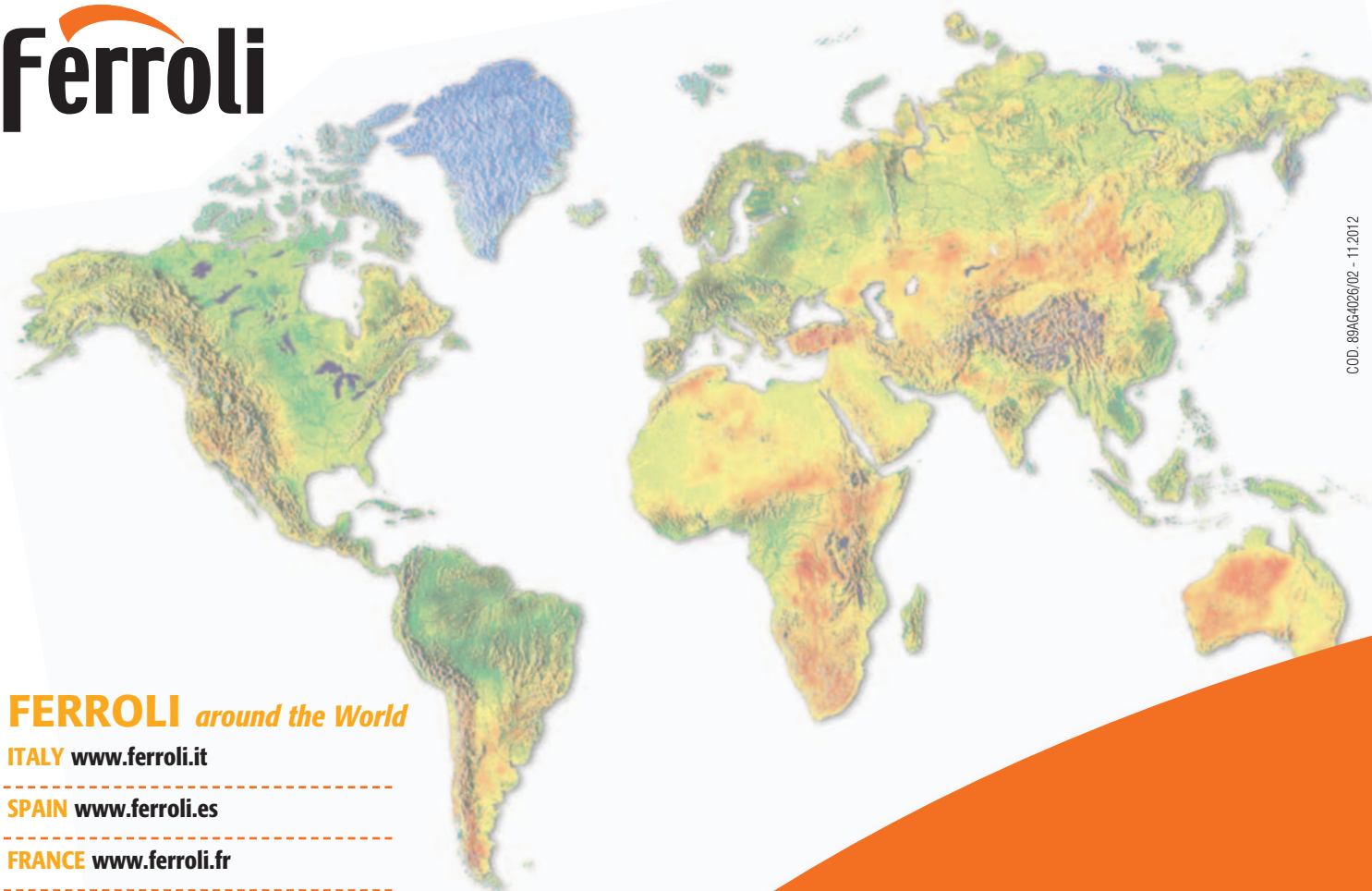


Pellet holding tank 350 lts >



MODEL				SUN P 7	SUN P 12
Output	max	kW		34,1	55,0
	min	kW		13,7	30,0
Flow rate	max	kg/h		7,2	11,6
	min	kg/h		2,9	6,3
Electrical protection rating		IP		X0D	X0D
Power voltage/frequency		V/Hz		230/50	230/50
Electrical power input		W		100	100
Igniter electrical power		W		300	300
Empty weight		kg		11	13,5
Pellet dimensions	Ø/length	mm		6/35	6/35

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