

firemax



Compact, automatic wood pellet boiler, available in several configurations

Firemax is a boiler with a compact exchanger design which together with the feeder and the cylinder, forms a compact and small heating device. The boiler has a high efficiency of up to 93% and a number of functions improving the comfort of boiler operation. The cuboidal, compact flame-and-shelf heat exchanger with horizontal flue gas flow, combined with ceramic elements, ensures high efficiency in the extraction of heat from the flue gases.

The boiler is equipped with a modern RS pellet burner characterised by high efficiency of burning pellets of A1, A2 and B class. It has a combustion process aeration system and separate primary and secondary air nozzles. It is equipped with a ceramic heater which ensures efficient and fully automatic firing of the boiler and a mechanism for automatic cleaning from sinters and ashes.



wood pellet
A1, A2, B



automatic
ignition



automatic
clean



compact
dimensions



heat-resistant
ceramics



several hopper
configurations

Technical data



available heating power range

kW

15 20 25 30 35 45

thermal efficiency reaching up to:



power modulation range

kW

4,5-16 6-22 7,5-28 9-33 10,9-35 13,7-46



approximate heating area*

m²

40-140 60-190 70-260 90-280 110-350 140-450

< 93%

| nominal power kW | thermal efficiency % | energetic efficiency class | water capacity dm ³ | flue gas outake diameter mm | weight of the boiler with the tank: | | | |
|---------------------|-------------------------|-------------------------------|-----------------------------------|--------------------------------|-------------------------------------|--------|-------------|-------------|
| | | | | | 250 kg | 300 kg | 190 plus kg | 300 plus kg |
| 15 | 92,8 | A+ | 52 | 160 | 317 | - | 341 | 350 |
| 20 | 92,3 | A+ | 70 | 160 | 382 | - | 401 | 417 |
| 25 | 92,3 | A+ | 80 | 160 | 467 | - | 483 | 511 |
| 30 | 92,2 | A+ | 80 | 160 | 467 | - | 483 | 511 |
| 35 | 92,7 | A+ | 103 | 160 | - | 540 | - | - |
| 45 | 92,6 | A+ | 118 | 160 | - | 590 | - | - |

Controller

ST-7110 zPID



tilt angle adjustment



remarkably easy to use



intelligent zPID algorithm



remote control option**

Control: igniter control, fan control, burner cleaning control, fuel feeder control, central heating and domestic hot water pumps control and two auxiliary pumps, weather control of valve, weekly control.

Functions: showing the amount of fuel in the tank, software update via USB, support for the burner grate, smooth control of the mixing valve.

* The given areas of the heated facility are only approximate

** On condition that an additional ST-505 or WiFi RS module is connected

Tank configurations



available tank version

250

300

190 plus

300 plus



tank capacity

dm³

250

300

190

300



heating power range

kW

15 - 30

35 - 45

15 - 30

15 - 30



firemax 250



firemax 300



firemax 190 plus



firemax 300 plus

Tanks 250 and 300: standard, powder-coated, without a cover housing, available in the left and right version.

Tanks 190 plus and 300 plus: these have a powder-coated cover housing, available in the left and right version.

Extended feed system*



available tank version

250 PSP

300 PSP



tank capacity

dm³

250

300



heating power range

kW

15 - 30

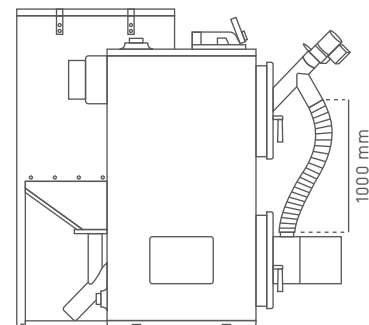
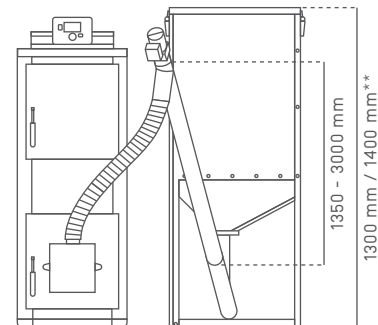
35 - 45



firemax 250 PSP
burner in front of the boiler



firemax 300 PSP
burner on the side of the boiler

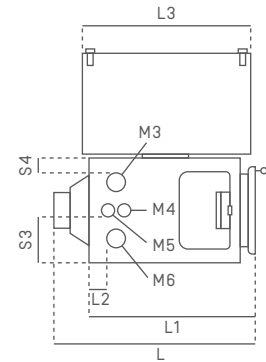
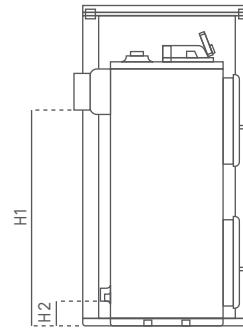
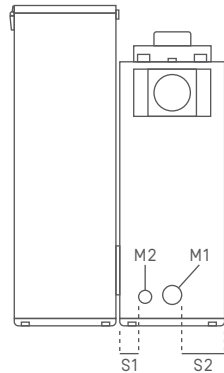
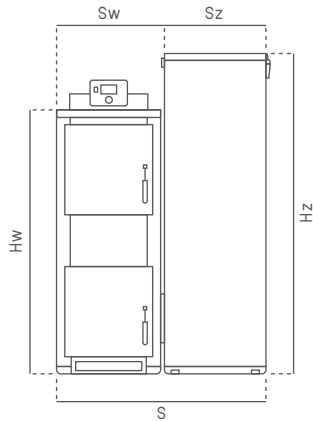


Feeder: extended, with a standard length of 1.3 m, with the possibility of extension up to 3 m for an additional fee.

Burner installation: in the front in the combustion chamber door or on the left or right side of the boiler.

* The Firemax boiler with an extended feed system (PSP) is available on request only.

** The height of 1400 mm applies to a tank with a capacity of 300 dm³.



| power tank | S | Sw | Sz | S1 | S2 | S3 | S4 | Hz | Hw | H1 | H2 | L | L1 | L2 | L3 | |
|---------------------|-----------------|-------------|-----|---------------|-----|--------------|-----|---------------|------|---------------|------|-----|-----|-----|-----|-----|
| kW | dm ³ | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | |
| 15 | 250 | 1020 | 460 | 560 | 100 | 210 | 220 | 80 | 1430 | 1150 | 940 | 110 | 714 | 500 | 90 | 710 |
| | 190 plus | 930 | 460 | 460 | 100 | 210 | 220 | 80 | 1400 | 1150 | 940 | 110 | 714 | 500 | 90 | 750 |
| 20 | 300 plus | 1170 | 460 | 705 | 100 | 210 | 220 | 80 | 1400 | 1150 | 940 | 110 | 714 | 500 | 90 | 750 |
| | 250 | 1020 | 460 | 560 | 100 | 210 | 220 | 80 | 1430 | 1150 | 940 | 110 | 883 | 670 | 95 | 710 |
| 25 | 190 plus | 930 | 460 | 460 | 100 | 210 | 220 | 80 | 1400 | 1150 | 940 | 110 | 883 | 670 | 95 | 750 |
| | 300 plus | 1170 | 460 | 705 | 100 | 210 | 220 | 80 | 1400 | 1150 | 940 | 110 | 883 | 670 | 95 | 750 |
| 30 | 250 | 1020 | 460 | 560 | 100 | 210 | 220 | 80 | 1430 | 1250 | 1000 | 110 | 883 | 670 | 105 | 710 |
| | 190 plus | 930 | 460 | 460 | 100 | 210 | 220 | 80 | 1400 | 1250 | 1000 | 110 | 883 | 670 | 105 | 750 |
| 35 | 300 plus | 1170 | 460 | 705 | 100 | 210 | 220 | 80 | 1400 | 1250 | 1000 | 110 | 883 | 670 | 105 | 750 |
| | 250 | 1020 | 460 | 560 | 100 | 210 | 220 | 80 | 1430 | 1250 | 1000 | 110 | 883 | 670 | 105 | 710 |
| 45 | 190 plus | 930 | 460 | 460 | 100 | 210 | 220 | 80 | 1400 | 1250 | 1000 | 110 | 883 | 670 | 105 | 750 |
| | 300 | 1070 | 460 | 580 | 100 | 210 | 220 | 85 | 1430 | 1530 | 1170 | 78 | 883 | 813 | 105 | 803 |
| 45 | 300 | 1070 | 552 | 580 | 147 | 255 | 266 | 128 | 1430 | 1530 | 1170 | 78 | 883 | 813 | 105 | 803 |
| | | | | | | | | | | | | | | | | |
| muff | M1 | M2 | | M3 | | M4 | | M5 | | M6 | | | | | | |
| diameter | 6/4" | 1/2" | | 6/4" | | 1/2" | | 3/4" | | 6/4" | | | | | | |
| intended use | boiler inlet | drain valve | | boiler outlet | | safety valve | | cooling valve | | boiler outlet | | | | | | |

Reference cross-section

