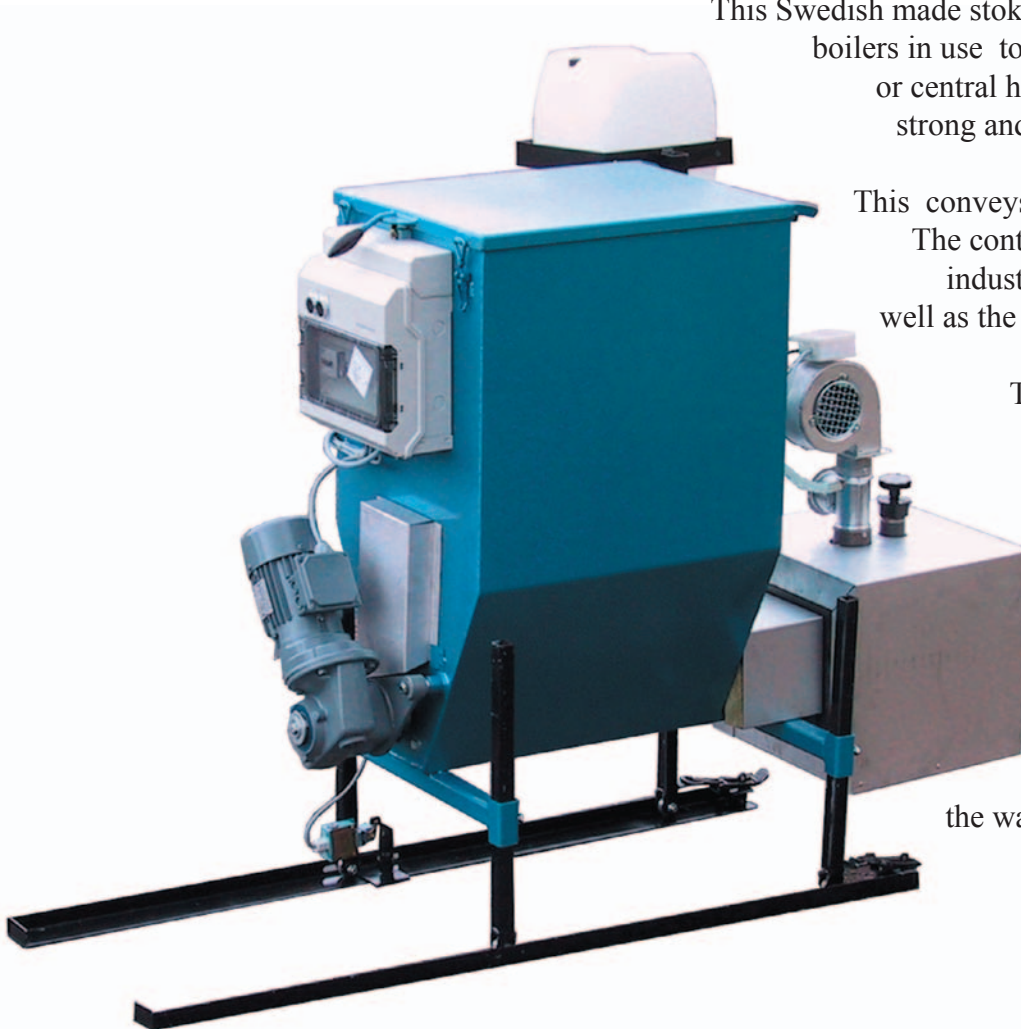


# Sonnys

# Stoker

**Stoker for stoking of grain like oats, wheat, barley and wood pellets, chippings and sawdust.**



This Swedish made stoker can be coupled with most heating boilers in use today, like wood or oil heating boilers or central heaters. The stoker is furnished with a strong and powerful agitator, securing the feed of material to the feed worm.

This conveys the fuel to the ceramic burner head. The control system consists of a standardized industry PLC, regulating the feed of air as well as the feed worm, both at continuous and maintenance operation.

The control system is to be connected to the boiler's/heater's temperature regulators. It is furnished with three different safety systems, independent of each other.

1. If the lid of the container is opened, the stoker stops.
2. If the stoker is pulled away from the boiler/heater, the stoker stops.
3. If fire at the back should arise, the water tank is opened to put out the fire.

The water valve operates independent of power supply.



**Chart comparing fuel and energy content**

	Moisture content %	Thermal value KWh	Volumetric weight Kg/m <sup>3</sup>
Electric 10000kWh		10000 kWh	
Oil 1m <sup>3</sup>		ca 10000 kWh	ca 900
Chopped straw 2,5tons	20	ca 10000 kWh	ca 100
Birch firewood 9m <sup>3</sup>	30	ca 10000 kWh	ca 450
Wood pellets 2,1 tons	8	ca 10000 kWh	ca 650
Chippings 1m <sup>3</sup>	35	ca 600 kWh	ca 250
Oats 2,5 tons	15	ca 10000 kWh	ca 550
Barley 2,4 tons	15	ca 10000 kWh	ca 700
Wheat 2,3 tons	15	ca 10000 kWh	ca 800

Stoker with 600 liters container and 95kW burner.

Stoker with 200 liters container for seed and pellets

Powerful engine, with a turning moment of 360 Nm for conveying the fuel to the incinerator.

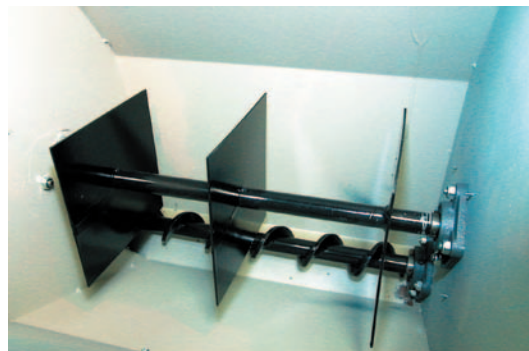


**Function:**

The fuel in the container is feeded with a feed worm, applied in the lower part of the container, through the burner neck into the combustion chamber. The hot combustion gases are conducted into the connected boiler/heater. The container, holding 240 litres, is furnished with a rotating agitator, securing the fuel to reach the feed worm as long as there is fuel in the container. The standard agitator can be replaced by a knife agitator when stoking fuel like moist parings, etc.

**Installation requirements**

Installation is to be carried out according to existing rules. The stoker is to be placed in a clean, dry space. The engine is to be connected to 220 V A.C. with ground connection. The heater/boiler the stoker is to be coupled with must have 3 temperature regulators (operation, maximum and low temperature regulators, the latter also called flue-gas temperature regulator). The heater/boiler is to have a draught of at least 1,5 mm wc (water column) There must be room for ashes (ash bin) in the heater/boiler, or else an automatic ash removing gear must be applied. The fuel is to have a moisture content of about 15 - 18%.



Agitation spindle of standard design for most types of fuel.

Tekniska data:	Typ 32kW	Typ 65kW	Typ 95kW	Typ 160kW	Typ 250kW	Typ 350kW	Typ 450kW
Anslutning	380V (220V)	380V (220V)	380V (220V)	380V (220V)	380V (220V)	380V (220V)	380V (220V)
Förbränningstemp	ca 1200 c°	ca 1200 c°	ca 1200 c°	ca 1200 c°	ca 1200 c°	ca 1200 c°	ca 1200c°
Förbr.verk.grad	91%	91%	91%	91%	91%	91%	91%
Effekt (träpellets)	32 kW	65kW	95kW	160 kW	250 kW	350 kW	450 kW
Effekt (flis)	25 kW	50 kW	90 kW	120 kW	190 kW	260 kW	350 kW
Effekt (havre)	18 kW	35 kW	80 kW	100 kW	170 kW	240 kW	320 kW
Effekt (korn)	10 kW	25 kW	50 kW	60 kW	100 kW	160 kW	230 kW
Effekt (vete)	8 kW	15 kW	35 kW	40 kW	70 kW	90 kW	170 kW
Skorstens drag	1,0-1,5 mm vp	1,0-1,5 mm vp	1,0-1,5 mm vp	1,0-1,5 mm vp	1,0-1,5 mm vp	1,0-1,5 mm vp	1,0-1,5 mm vp
Längd förugn	385(+fläns 25)	585(+fläns 25)	785(+fläns 25)	785(+fläns 25)	785(+fläns 25)	785(+fläns 25)	885(+fläns 25)
Bredd förugn	450	475	560(+ben 150)	560(+ben 150)	560(+ben 150)	560(+ben 150)	660(+ben 150)
Höjd förugn	405	445	525	525	525	525	525
Minsta pannhåll	185 x 185	235 x 235	430 x 445 (285 x 285)	430 x 445 B x H	430 x 445 B x H	430 x 445 B x H	530 x 445 B x H

VAT and freight are yet to be added. The management reserve the right to make alterations of specifications.

For further information:

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