



Outdoor Energy-Unit Type RAU-2-33 I

The new Skelhøje boiler series is an enhancement of the well-known Skelhøje boiler unit.

The 2-series is a high-efficient boiler plant with a good combustion and an efficiency exceeding 88%. Skelhøje Outdoor Energy Unit is a highly insulated turnkey boiler plant without any building requirements, except for the boiler and chimney foundation.



RAU-2-331

**1 big bale fired lengthwise
2 round bales Ø 180 cm**

The plant features various details which enable efficient combustion, high utility value, easy operation and long life.

The Energy Unit is constructed with a boiler part and storage tank in the middle section.

The expansion tank is placed at the top.

The plant is delivered in 3 sections to facilitate easy mounting in 2-3 hours. Straw burning plants are constructed of 10 mm customised steel plates intended for combustion plants for straw and forest tree.

EQUIPMENT

- **The combustion air is controlled via our patented leaf damper.**
- **PLC control with touch screen for setting and reading of all data, such as temperatures in top, middle, bottom. O₂% and flue gas temperature.**
- **Service plug for 230 V and 380 V.**
- **Water-cooled tube battery.**
- **Water-cooled firing door with safety thermostat.**
- **Shunt pump for warm boiler bottom.**
- **Pump for cooling of front door.**
- **Storage tank three-way valve for replacement of door hoses.**
- **The entire boiler plant is insulated with mineral wool (200-400 mm).**
- **Combustion chamber made of 10 mm special steel plates.**
- **Fireproof bricks in combustion chamber.**
- **Coated with enamelled steel plates on the exterior.**
- **Colours may be adjusted to the surrounding buildings.**

ACCESSORIES

- **Detached chimney 15-18 m high, constructed of untreated Corten steel plates.**
- **Surface treatment of chimney.**
- **Ash shovel.**
- **Motor driven shunt adjustment for control of flow temperature.**

- specialist in straw burners



Skelhøje

Technical data



Skelhøje Maskinfabrik AIS

Energi-Unit Type RAU-2-33 I

Straw bales per firing	Big bales 120 x 130 x 250 cm.	pcs	1
	Round bales Ø 180 cm	pcs	2
Combustion chamber	Diameter Ø	cm	200
	Length	cm	300
	Number of tubes in smoke cooler Ø 70 mm	pcs	32
	Plate thickness in combustion chamber	mm	10
Boiler plant dimensions	Length, incl doors	cm	410
	Width	cm	365
	Height	cm	825
	Height for expansion	cm	650
	Height for flue channel	cm	267
	Flue channel diameter Ø	mm	325
	Storage tank	l	30,000
Other specifications	Flow/return		2"
	Test pressure	bar	3
	Operating pressure	bar	0.7
	Chimney height	m	15-18
	Heat surface	m ²	48
	Efficiency continuous *)	kW	300
	Average at 2 firings/24 hours	kW	160 - 192
	Fuel throughput per firing **)	kg	600 - 720
	Annual fuel consumption	ton	144 - 173
	Substitutes oil per year **)	l/year	48,000-58,000

*) Continuous efficiency at 16% water content in straw 1kW = 860 kcal.

***) depending on compression

****) at 240 firings per year

Distributor:

