

WARM-AIR STOVES FALCO ECO

For wood with a heat exchanger and a fan



FALCO ECO *The most effective warm-air stoves on the market*

- 🔥 High efficacy 85-87 %
- 🔥 High heat capability thanks to the heat exchanger with fan
- 🔥 Fast heating of the stoves
- 🔥 The fan distributes warmth (not only the stove is surrounded by heat)
- 🔥 Constant and reliable bicameral burning system
- 🔥 Up to 40 % fuel saving in comparison with classical stoves
- 🔥 Long intervals of ashes emptying
- 🔥 Self-glass-cleaning system
- 🔥 Heat-resistant gasification tubes made of stainless steel and titanium
- 🔥 Massive construction of the fire chamber made of 5 mm thick material
- 🔥 Fireclay fire chamber (long lifespan)
- 🔥 Long burning time
- 🔥 Attested
- 🔥 Patented

Usage :

- Lodges
- Cottages
- Family houses
- Flats
- Restaurants
- Workshops
- Halls
- Storehouses
- Greenhouses
- Structures and the like...



Falco Eco 8 kW



Falco Eco 12 kW



Falco Eco 20 kW
- with pedestal



Falco Eco 30 kW



Falco Eco 30 kW
- inside of the stove



Falco Eco 40 kW



Falco Eco 50 kW



Falco Eco 80 kW



Falco Eco 120 kW



Falco Eco 120 kW
- behind sight

A significant advantage of the warm-air exchanger and the fan is a uniform warm distribution with possibility of heating larger spaces. This warmth is spread with the fan into the heated room. The constant temperature of the expanded air is about 50 – 100°C, depends on heating intensity.

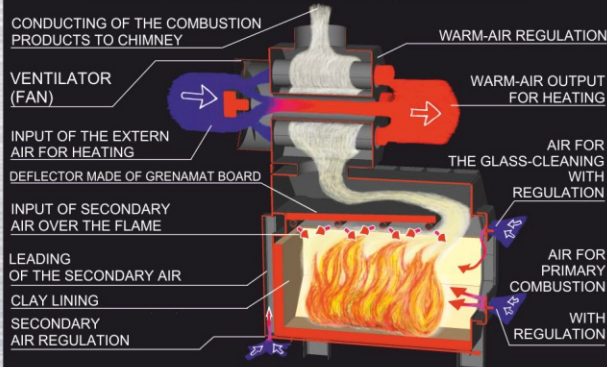
Bicameral (gasification) combustion system enables to achieve maximal burning efficacy, because the wood is burned in the lower chamber at the time when the smoke is combusted in the upper chamber, through which it is forced to flow. Only this technology ensures the maximal burning efficacy (over 80 %) with minimal volume of residual ashes and long stoking intervals.

This method of combustion is very economical – great fuel saving (30 – 40 %) is secured by comparable performance and lower gas and dust particles volume with minimal impact on the environment.

The high efficacy of the stove is provided by the two-chamber burning system, which enables perfect combustion of gases arising during the process. The heat, generated by burning, warms the cloak of the stove itself, that is made of sequently ordered profiles for conventional heat transfer to its surroundings, as well as it heats the tubular exchanger, that is put in the smoke path. Thanks to the warm-air exchanger, larger heat-exchanging surface is provided, compared to another technical solutions of commonly constructed stoves; therefore it is possible to achieve high performances and effectiveness of warm transfer even by smaller stove sizes.

Additionally: An automatic fluent fan revolution regulation with a temperature sensor LDS or LDT, a pedestal and a smoke gases thermometer.

DESCRIPTION OF THE COMBUSTION FUNCTION



2 years warranty.
Designs and consultations are free of charge. Shipping directly to you.

THE STOVES MEET THE STRICTEST EUROPEAN EMISSION STANDARDS.

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WARM-AIR WOOD STOVES FALCO ECO

Model of stoves Falco Eco	8 kW	12 kW	20 kW	30 kW	40 kW	50 kW	80 kW	120 kW
Heat performance	2 - 8 kW	5 - 12 kW	8 - 20 kW	12 - 30 kW	16 - 40 kW	25 - 50 kW	40 - 80 kW	60 - 120 kW
Heated space	50 - 200 m ³	100 - 350 m ³	200 - 450 m ³	300 - 700 m ³	500 - 1200 m ³	800 - 1600 m ³	1000 - 2200 m ³	1400 - 3000 m ³
Fuel consumption	2,2 kg/h	2,9 kg/h	4,4 kg/h	6,0 kg/h	9,5 kg/h	13 kg/h	19 kg/h	26,9 kg/h
Efficacy	85,60 %	85,01 %	85,01 %	87,00 %	85,03 %	85,01 %	85,60 %	85,60 %
Emissions of CO by O ₂ =13%	0,08 %	0,09 %	0,09 %	0,08 %	0,09 %	0,09 %	0,07 %	0,07 %
Heated air flow	300 m ³ /h	400 m ³ /h	600 m ³ /h	1400 m ³ /h	2500 m ³ /h	2500 m ³ /h	4725 m ³ /h	5700 m ³ /h
Constant temperature at the output	50 - 110°C	50 - 110°C	50 - 110°C	50 - 110°C	50 - 110°C	50 - 110°C	50 - 110°C	50 - 110°C
Stove fan input power	36 W	36 W	36 W	90 W	110 W	110 W	165 W	245 W
Combustion products temperature	197°C	200°C	200°C	203°C	221°C	221°C	197°C	197°C
Smoke flue diameter	130 mm	130 mm	150 mm	150 mm	180 mm	200 mm	200 mm	250 mm
Chimney draught	12 Pa	12 Pa	12 Pa	12 Pa	12 Pa	12 Pa	12 Pa	12 Pa
Maximal wood log length	300 mm	380 mm	550 mm	700 mm	800 mm	1100 mm	1100 mm	1300 mm
Depth	605 mm	690 mm	860 mm	1070 mm	1240 mm	1460 mm	1460 mm	1674 mm
Width	538 mm	538 mm	538 mm	558 mm	658 mm	658 mm	778 mm	798 mm
Height	975 mm	975 mm	990 mm	1170 mm	1380 mm	1380 mm	1427 mm	1427 mm
Weight	80 kg	96 kg	129 kg	180 kg	260 kg	340 kg	450 kg	550 kg

LDS, LDT

- Automatic electronical fan revs regulation

This device is meant to regulate fluently the ventilator revs, dependently on the heating temperature of the warm-air stove-exchanger. The basis of the display regulation part is a clearly arranged graphical display and remote with buttons, which can be used to control the LDS-regulation (LDT).

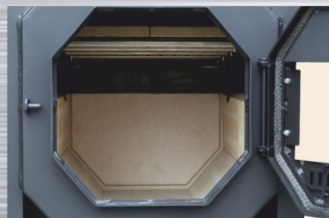
LDS- or LDT-regulation with graphical display in ground version enables and secures:

- Projection of measured values and regulation state on display
- Fluent and automatic control of air-ventilator (fan)
- Manual control of the fan
- Possibility of parameter setting alteration
- Acoustic warning signalisation
- Quiet fan functioning (using the LDT)

We recommend:

To use the control unit LDS-regulation of the stove fan for halls, storehouses, greenhouses, restaurants, structures and the like.

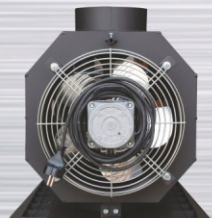
To use the control unit LDS-regulation of the stove fan for lodges, cottages, family houses and flats.



Inside of the stove



Exchanger detail



Exchanger with the fan (behind sight)

An advantage of the control unit LDT is its very silent fan functioning, due to the electronical connection together with the transformer.

