

TRADITION · INNOVATION · QUALITY

FÉG ECON CONDENSING BOILER



# FÉG ECON CONDENSING BOILER

The boiler series FÉG ECON does not only impress with its modern, economical and efficient construction design, but as well creates an ideal heating and water comfort through its unique and aesthetic appearance. The system is available as a heating, combination or storage version.

## Modern System – Energy efficiency class „A“

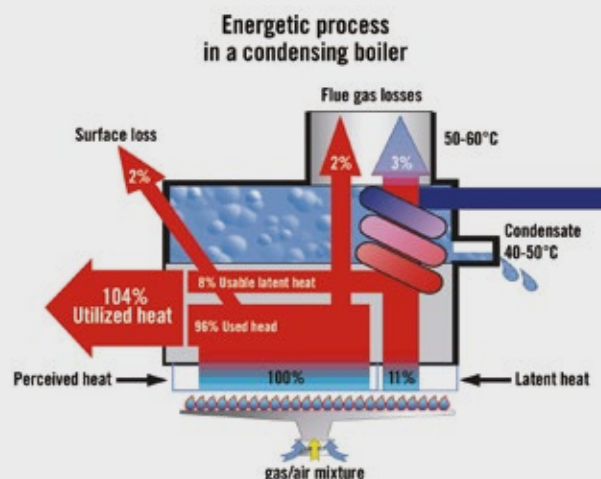
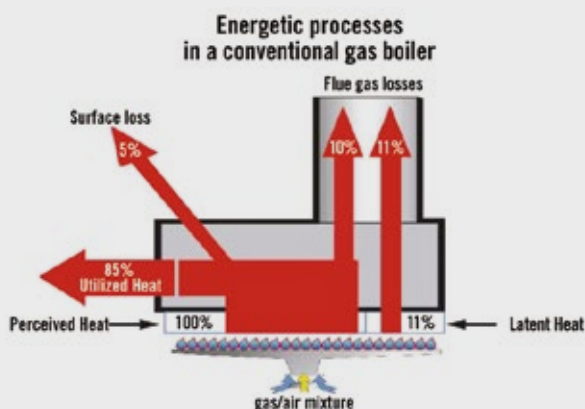
Designed on the basis of precise engineering, ECON guarantees an exceptionally economic operation through its harmonious construction. During the construction process of the boiler, the choice of high quality components has been awarded the highest priority. The integrated circulation pump (Type „A“) consumes up to 44% less energy compared to a condensing boiler with a conventional circulation pump (Type „C“)

## Hungarian know-how

ECON has been developed taking into account the demanding needs and expectations of Hungarian households. The device offers a unique added value – planning, development and production are all from one source.

## Design

By means of the many design possibilities of the ECON system, it can easily become a decorative object for any interior design. The casing body can be ordered according to individual color preferences. If required, the manufacturer produces the boiler based on the selected and specified RAL code. In addition, the color of the buttons can be as well changed.\*



\* For further details please see [www.feg1891.com](http://www.feg1891.com)

## Technical solutions

Based on its adjustable power control ECON always adapts to the current heat demand. Thanks to the self-produced FÉG Spirec heat exchange technology, the system ensures the calorific value operation mode as well during the production of hot water, whereby the above-average economical mode of operation is secured.

The motorized and with an shuttle valve and a hot water supply tank equipped models ECON 26T and ECON 45T are manufactured with a built-in charge pump.

All built-in electrical units meet the requirements of the EU ErP directive\*\*.

Due to the modern electrical regulations applied, the gas boiler is classified as energy efficiency class „A“!

With an optionally acquirable external sensor for weather-tracking purposes, it is possible to automatically adjust the desired heat in advance.

A manual or digital room thermostat can be connected to the system.

With the installation of the digital remote control OpenTherm, not only higher energy savings can be achieved, but as well an increase of living comfort.



\*\* With the Ecodesign Directive 2009/125/EC, the European Union determines the framework for the setting of eco-design requirements for energy-related products. The directive is part of the so-called 20-20-20 targets, according to which the primary energy consumption has to be reduced by 20% by 2020 and 20% of the energy usage to originate from renewable energy sources.

### TECHNICAL FEATURES:

- High efficiency primary heat exchanger with an aluminum-silicon-magnesium (Al-Mg-Si) alloy
- FÉG SPIREC KNV-2 domestic hot water (secondary) heat exchanger (ECON 26K, ECON 45K)
- Engine Premix total premix gas burner - Honeywell System
- Rotation speed-controlled fan Honeywell - ErP Directive (Energy efficiency grade „A“)
- Rotation speed-controlled circulation pump Wilo - ErP Directive (Energy efficiency grade „A“)
- Flame ionization
- Continuous flame regulation
- Weather Tracking heating control (optional)
- OpenTherm digital space regulation possibility, safety appliances!
- Self-diagnosis, error message
- Standby mode, low maintenance requirement, easy maintenance, easy operation



### SPIREC KNV HEAT EXCHANGER



# FÉG ECON CONDENSING BOILER – TECHNICAL DATA

		ECON 26F/ECON26K
<b>Gas technical data</b>		
Nominal heat input maximum	kW	26,6
Nominal heat input minimum	kW	4,7
Nominal heat output maximum (80/60 °C)	kW	25,8
Nominal heat output minimum (80/60 °C)	kW	4,55
Efficiency at maximal operating grade (80/60 °C)	%	87
Efficiency at 30% operating grade (50/30 °C)	%	96,6
Supply pressure G20	mbar	20 / 25
Gas consumption G20 min/max	m³/hour	0,45 / 2,77
Gas category		I2H
<b>Heating data</b>		
Operating temperature range	°C	25 - 85
Maximum operating pressure	bar	3
Minimum operating pressure	bar	0,5
Closed expansion vessel tonnage	liter	8
Primary pressure at closed expansion vessel	bar	1,0
Circulation pump residual pressure min/max	bar	1,7 / 4,4
Circulation pump volume flow rate min/max	liter / hour	260 / 1200
<b>Data on domestic hot water</b>		
DHW temperature range	°C	35 - 55
Connecting water pressure max	bar	10
Warm supply water flow rate $\Delta t$ 30 °C	liter / minute	15
<b>Electrical specifications</b>		
Electrical connection	V / Hz	230 / 50
Electric power consumption	W	180
Electrical protection IP		IP44
<b>Other data</b>		
Height x width x depth	mm	810 x 470 x 350
Weight	kg	45
<b>Flue gas data</b>		
Smoke outlet types (MSZ CEN TR 1749)		B33, C13, C33, C43, C53, C63, C83, C93
NOx class	EN 483	"5"
Air excess factor at min/max output	$\lambda$	1,23 / 1,18
CO Volume percentage at min/max output	%	9,5 / 9,9
CO volume at min/max output	mg/kWh	15 / 71
NOx volume at min/max output	mg/kWh	21 / 60
Flue gas temperature at min/max output	°C	35 / 73
Flue gas flow rate at min/max output	m³/h	5,87 / 31,35
Residual pressure of fan at min/max output	Pa	27 / 172
Flue gas connection (flue gas/air)	mm / mm	60/100
*In case of the Econ 26F device, the DHW storage parameters determine the value!		

## Vara-Fég Ltd.

23 Fáy st., Budapest 1139, Hungary

T: +36 1 262 74 71, +36 1 262 7475

F: +36 1 262 7471

Email: [info@feg1891.com](mailto:info@feg1891.com) - Web: [www.feg1891.com](http://www.feg1891.com)

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