

*Energy efficiency
& respect for the environment!*

3
years
warranty



Efficiency up to **107%**

Power Adjustment 1:5

Class
NOx 6

A⁺



 **Savio**
ACTADENS

Wall-Mounted
Condensing Gas Boiler



Technical Characteristics Brochure

www.tzanos.gr

3
years
warranty*

ACTADENS

ACTADENS is a development to the Savio wall-mounted condensing boilers series, ensuring high output, low consumption and respect for the environment.



A+



Models are available exclusively for heating and / or for hot water supply (DHW).

The ACTADENS series features a complete range of boilers of 25 kW and 30 kW output, maintaining its particular small dimensions (703 x 400 x 325 mm).

Like all Savio condensing boiler models, the ACTADENS series **saves** even more **energy** using offset, achieved when connecting to external sensor (optional).



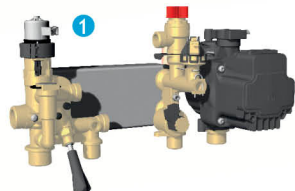
703 mm

325 mm

400 mm

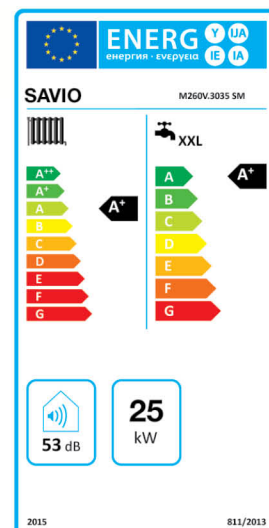
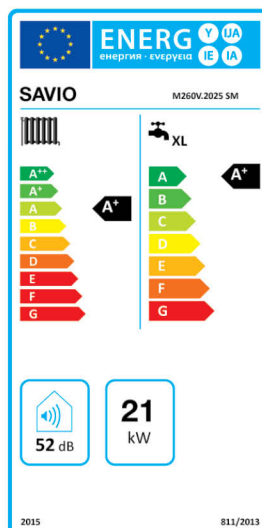
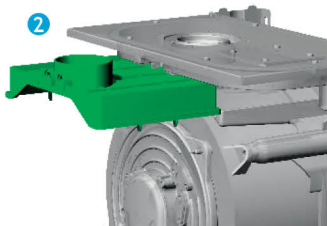
Basic Characteristics

- Power adjustment to seasonal output 1: 5 Methane and LPG
- Stainless steel total premix burner (Class NOx6)
- Stainless steel primary condensing exchanger with steel casing for maximum corrosion resistance
- High efficiency (★★★★ according to 92/42 / EEC European Directive and 311/06 Legislative Decree)
- High classification for Hot Water (★★★ EN 13203)
- Stainless steel plate-fin hot water exchanger
- 8 litre expansion vessel
- High efficiency **Inverter** technology pump and low energy consumption
- The exhaust pipe features a special valve that acts as a safety thermal
- Maximum power adjusts according to the needs of each installation
- Protection Degree: IPX5D
- Can be installed in partially protected space
- Can be combined with solar systems through special set
- Digital control panel with rear screen lighting
- Proportional pressure gauge
- A wireless control and external sensor can be installed



ACTADENS differs thanks to its following special accessories:

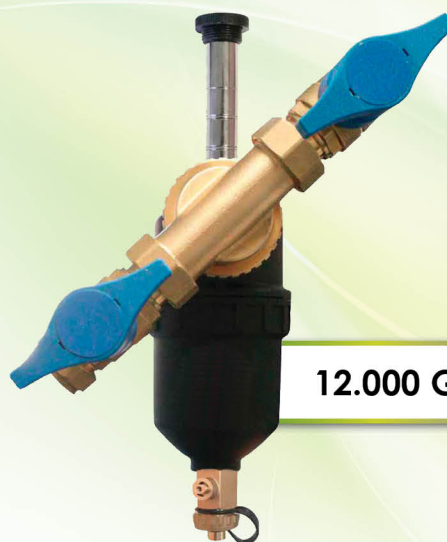
1. Solid brass hydraulic flow control system, bypass with built-in automatic filling. ERP circulator with manual pump release in return.
2. Complete exhaust system with drainage system for rainwater and concentrates.



* When purchasing and installing the Savio particle separator with magnetic filter. Covers the warranty for all wall-mounted unit fittings and extends it +1 year.

Savio Magnetic Brass Filter

- Essential accessory for new or existing installation
- Retention of particles and debris by vertical or horizontal installation possibility
- Strong magnetic field 12,000 Gauss with detachable magnet
- Includes 2 3/4" shut-off valves and a purge valve
- Up to 12 bar, 120°C



12.000 Gauss

Primary Heat Exchanger

Primary Heat Exchanger

Savio launches to the Greek market the new Round stainless steel heat exchanger for condensing boilers.

Round is a heat exchanger with a stainless steel coil and oval cross section.

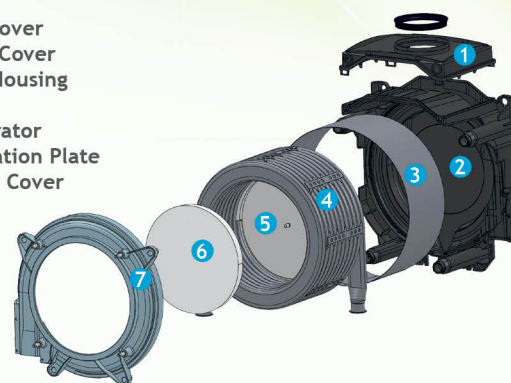
Using a single stainless steel spiral for coil production, including Input / Output connections, the following **benefits** are offered:

- Accumulation of dirt and other residues is avoided
- Water is evenly distributed, ensuring homogeneous thermal exchange
- Water supply is kept constant
- Reduced pressure drop due to optimized circuit

Easy cleaning as well as the robustness of the heat exchanger are indisputable points of superiority of this product.

The **Round** heat exchanger integrates the **circular flow function (round flow)**, through which the water of the circuit develops centrifugal cleaning action of the single spiral inner walls. The absence of parallel circuits ensures easy cleaning of the heat exchanger and contributes to the elimination of any air within the installation circuit.

1. Top Cover
2. Back Cover
3. Coil Housing
4. Coil
5. Separator
6. Insulation Plate
7. Front Cover



8. Single Helical Oval (Round) Cross Section Spiral
9. Heating Water Return
10. Evacuation of Condensates
11. Heating Water Supply

10 years warranty



Control Panel

- Summer / Winter selection ON / OFF mode
- Heating Temperature Adjustment
- Hot Water Temperature Adjustment
- Proportional Pressure Indication
- Digital Temperature Hot Water & Heating Indication
- Auto-diagnosis, Blocking Position & Damage Record Display
- Instructions & Indication of Recommended Filling
- Annual Maintenance Reminder & Expiration Indication

The screen features the following functions:

INFO

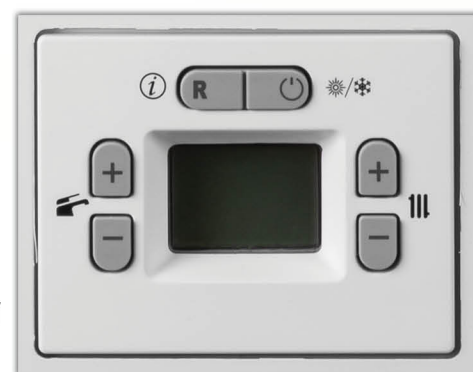
- Outdoor Temperature (requires installation of sensor)
- Exhaust gas temperature

PROGRAMMING

Programming function allows configuration of the boiler.

- During the exhaust system cleaning process the possibility of testing the Boiler & Adjusting the Gas Valve is provided
- K-value ** Adjustment
- Choice of Hot Water & Heating Temperature

** K-value: Rate monitoring offset.



TECHNICAL CHARACTERISTICS

ACTADENS		25 S
Rated Thermal Power - Heating/Hot Water	kW	21/ 26
Maximum Net Power Output - Heating/Hot Water 80°/60°C ¹	kW	20,5/ 25,4
Minimum Net Power Output - Heating/Hot Water 80°/60°C	kW	4,8/ 5,1
Maximum Net Power Output - Heating/Hot Water 50°/30°C ²	kW	22,4/ 27,8
Minimum Net Power Output - Heating/Hot Water 50°/30°C ²	kW	5,3
Amount of Concentrates in Rated Power 50°/30°C (Heating) ²	lt/ h	4,2
Amount of Concentrates in Minimum Power 50°/30°C (Heating) ²	lt/ h	0,8
Concentrates pH		4,0
Rated Output 80°/60°C ¹	%	97,7
Minimum Output 80°/60°C ¹	%	93,5
Rated Output 50°/30°C ²	%	106,8
Ελάχιστη Απόδοση 50°/30°C ²	%	103,9
Output at 30% of the Load ²	%	107,5
Energy Class		★★★★
Heat Loss form Exhaust System with Burner ON	Pf (%)	1,8
Heat Loss form Exhaust System with Burner OFF DT 50°C	Pfbs (%)	0,2
Heat Loss from Housing to the Environment with Burner ON	Pd (%)	1,6
NOx Class	Apiθ.	6
Weighted NOx ³	mg/ kWh	43
Minimum / Maximum Heating ⁴ Temperature	°C	27/ 80
Minimum / Maximum Heating Pressure	bar	3/ 0,3
Available Heating Head (1000lt/h)	bar	0,385
Expansion Vessel Tonnage (Gross / Useful)	lt	8
Minimum / Maximum Hot Water Temperature	°C	35/ 60
Minimum / Maximum Hot Water Pressure	bar	10/ 10,3
Maximum Output (DT=25 K)/ (DT=35K)	lt/ min	14,7/ 10,3
Special Water Supply System (DT=30 K)	lt/ min	12,4
Voltage / Input in Rated Thermal Input	V~/ W	230
Input in Stand-by Mode	W	3
Protection Rate		IPX5D
Maximum Fuel Temperature 80°/60°C	°C	69
Minimum Fuel Temperature 50°/30°C	°C	50
Minimum / Maximum Exhaust Gas Flow	kg/ s	0,0027/ 0,0118
Minimum / Maximum Air Flow	kg/ s	0,0026/ 0,113
Height x Width x Depth	mm	703x400x325
Weight	kg	30
Boiler Water Capacity	lt	2
Fuel		Methane (G20) - Propane (G31)

¹ With return water temperatures that do not allow condensation.

² With return water temperatures that allow condensation.

³ Test values: 60/100 mm 0.9m coaxial cable & G20 methane.

⁴ At minimum net power output.

The company

K. TZANOS SA was established in 1982 and it is a well-established trading company specialised in the field of plumbing, heating, natural gas, and green energy, maintaining long-term partnerships with well-known European and International houses. K. TZANOS SA is operating under the umbrella of TZANOS Group of companies, while owns since 1997 ISOPIPE SA, a factory specialising in the production of insulation material ISOPIPE and TORRENT cast iron condensing boilers. In 2008, TZANOS SA created the H-IT brand aiming at manufacturing high quality-products at affordable prices, for water supply and heating systems.

All products represented by TZANOS Group of Companies are CE certified.



ΕΥΓΥΝΟΝ
ΠΟΙΟΤΗΤΑ
ΑΞΙΟΠΙΣΤΙΑ

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