





HEATING

Discover the Heating Section and Revolutionise Your Small Business

In the dynamic world of small businessefficiency and innovation are the keys to success. The heating section of our catalogue aims to provide technologically advanced, adaptable and environmentally friendly solutions. Designed to meet the specific needs of small business owners, this section is a key resource for optimising day-to-day operations.

In this post, we will explore the main products in our Heating section. You will learn how each product can help energy efficiency, reduce operating costs and support more sustainable business practices. We will examine condensing boilers, gas water heaters and heat pump water heaters, providing detailed information and practical tips for each.

Condensation boilers

Condensing boilers represent one of the most innovative technologies in the field of heating. These devices utilise the latent heat of the flue gas, which would otherwise be lost to the environment. The result is a very high thermal efficiency, which can exceed 90%.

For small entrepreneurs, the installation of a condensing boiler means considerable energy cost savings. Thanks to their compact design and easy installation, they can be easily adapted to

different business contexts. Furthermore, the adoption of a warm condensing unit can contribute to improving the ecosustainable image of the company, an aspect that is increasingly appreciated by customers.

By choosing a condensing boiler, you have access to to a technology that not only meets the strictest environmental standards, but also provides for minimal maintenance, thus guaranteeing a smooth operation. reliable and continuous.

Gas water heaters

Gas water heaters are a popular choice for small businesses that need a constant supply of hot water. These devices offer the advantage of rapid and continuous heating, without the fluctuations typical of electrical systems.

Using natural gas or LPG, gas water heaters are highly efficient and offer a particularly good cost-benefit ratio. Their installation is simple and, thanks to recent technological advances, many modern models include intelligent control functions to optimise energy consumption.

In addition, gas water heaters are designed to last, requiring little maintenance. This means that, with a reasonable initial investment, you can benefit from a reliable and durable system.

Heat Pump Water Heaters

Heat pump water heaters are an advanced option for heating water, harnessing the energy in the environment for high energy efficiency. These devices use a thermodynamic cycle to absorb heat from the outside air, significantly reducing energy consumption compared to traditional systems.

A distinctive feature of our heat pump water heaters is the provision integration with solar thermal systems. This allows small businesses to maximise efficiency by harnessing both solar and environmental energy, further reducing environmental impact. Such integration is a significant step towards sustainability, offering a renewable energy source that can drastically reduce operating costs.

The installation of solar-supported heat pump water heaters is a forward-looking strategy that not only adheres to the most stringent environmental regulations, but also contributes to a company's 'green' image. In addition to economic benefits, this solution is characterised by its reliability, with easy maintenance and an operating life that ensures a long-term return on investment.

Heat pump water heaters are an innovative solution for heating water using the thermal energy in the surrounding environment. This technology achieves higher energy efficiency than conventional heating systems.

For small businesses, the adoption of a heat pump water heater means significant savings in operating costs. These devices are ideal in contexts where environmental sustainability is a priority, as they significantly reduce CO2 emissions.

Moreover, thanks to their ability to operate even at low outside temperatures, heat pump water heaters are suitable for various climatic conditions. Their installation can also benefit from tax incentives, making them an even more economically attractive choice.





VESUVIO 24/28/33KW CONDENSING BOILER



CALIDUS
OPEN CHAMBER 12/14LT





CALIDUS PLUS
WATERTIGHT
CHAMBER 12/14LT

CALIDUS PLUS DESIGN WATERTIGHT CHAMBER 12/14LT





FUSION
HEAT PUMP WATER

HEATER 80L/100L FUSION

HEAT PUMP WATER HEATER 200L/300L



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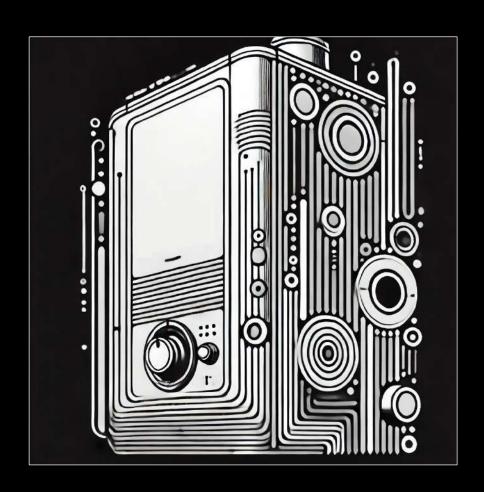
GAS WATER HEATERS

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HEAT PUMP WATER HEATERS

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BOILERS





Condensation Boilers: Efficiency, Savings and Respect for Environment

Condensing boilers represent the most advanced technological evolution in the field of domestic and industrial heating. Thanks to the innovative system of recovering the latent heat present in the flue gases, these boilers guarantee superior energy efficiency compared to traditional systems, drastically reducing gas consumption and polluting emissions.

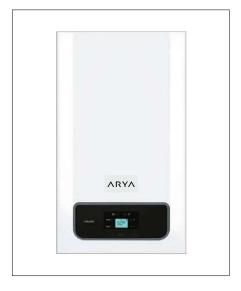
With their optimised operation, condensing boilers are designed to maximise savings by offering high performance even at low temperatures. This makes them ideal integration with underfloor or low-temperature heating systems, ensuring comfort and well-being in every room.

Besides being extremely efficient, these boilers are synonymous with environmental sustainability. The reduction of **CO**, and **NO**x emissions contributes to a positive impact on the environment, making the choice of condensing boilers not only economically advantageous, but also responsible towards the planet.

Our range of condensing boilers is designed to meet different living needs, offering compact, quiet and high-performance solutions. Discover the technology that turns heating into a more efficient and sustainable experience.

VESUVIO

24/28/33KW CONDENSING BOILER





Boiler

pre-mixed condensing with GAS ADAPTIVE system

Domestic Hot Water Production and Heating

VESUVIO 24 VESUVIO 28 VESUVIO 33

DOUBLE OVERSIZED HEAT EXCHANGER

HIGH THERMAL-ACOUSTIC INSULATION USABLE WITH BOTH NATURAL GAS AND LPG

MODULATION 1:7





The VESUVIO boiler represents a state-of-the-art solution for domestic and industrial heating, designed to offer energy efficiency and durability. These boilers feature an advanced combustion system that ensures maximum heat output with reduced fuel consumption. The materials used for construction such as stainless steel, ensure corrosion resistance and a long service life. In addition, the integrated electronic control system enables precise temperature management and constant performance monitoring. The VESUVIO boiler is designed to be compatible with natural gas and LPG, making it a versatile choice for different energy needs.

TAX INCENTIVES FOR CONDENSING BOILERS

Condensing boilers can benefit from various tax incentives aimed at promoting energy efficiency and reducing polluting emissions. Among the main measures, there is the tax deduction (Eco-bonus) that allows for the recovery of up to 65% of the expenses incurred for the replacement of heating systems with condensing boilers. However, these boilers must meet specific energy efficiency requirements, such as the presence of an advanced thermoregulation system. In addition, the installation of condensing boilers contributes to achieving the standards required by European legislation on reducing emissions, thus supporting users in making a sustainable and cost-effective choice.

The VESUVIO boiler is the perfect choice for those who want a heating and domestic hot water production system that combines efficiency, innovation and respect for the environment. Choose the quality and reliability of a state-of-the-art product to transform your home into a comfortable and cosy environment.





VERSATILITY VESUVIO MET/LPG BOILER

The versatility of the VESUVIO boiler to run on both NATURAL GAS and LPG is a significant advantage in terms of adaptability and convenience. Thanks to its intelligent design and advanced control system, this boiler can easily switch between the two fuel types without requiring structural modifications. This is particularly useful in situations where gas supply may vary or where users need to switch to alternative fuels for economic reasons or availability. In addition, the option to use LPG, often called Liquid Propane Gas, also makes the boiler suitable for homes in remote geographical areas or those not connected to the natural gas network. This flexibility ensures that the boiler maintains high levels of efficiency and energy savings under all conditions of use.

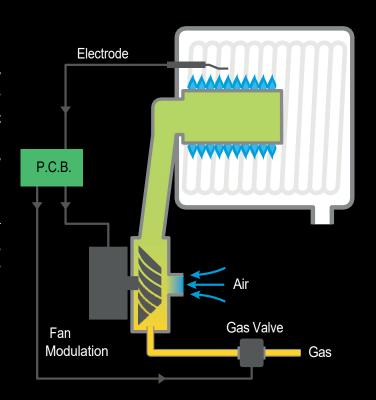
DOUBLE OVERSIZED HEAT EXCHANGER

The increased double heat exchanger of the **VESUVIO** boiler is designed to maximise the efficiency of heat transfer, supporting the continuous production of domestic hot water. Thanks to this innovative component, the boiler is able to generate up to 12 litres at a time.

18.2 litres of hot water per minute, ensuring a constant and abundant flow to meet the daily needs of users. This high capacity is especially advantageous for homes and commercial installations that require a fast and uninterrupted hot water supply, without waiting times or interruptions. The double heat exchanger not only improves the speed of hot water production, but also enables more efficient use of fuel, contributing energy savings and reducing operating costs in the long run.

PREMIXED WITH ADAPTIVE GAS SYSTEM

The premixing system with gas adaptability is a crucially advanced element of the **VESUVIO** boiler. This technology allows the boiler to automatically and continuously adjust the air-gas mix in relation to the quality of the feeding gas. This results optimal combustion efficiency, guaranteeing low NOx and CO2 emissions and a significant reduction in energy consumption. Automatic adaptation to changes in pressure and gas composition means that the boiler maintains stable and efficient operation, regardless of gas supply conditions. This advanced system not only improves performance, but also ensures increased safety and durability of the boiler.





HIGH THERMAL-ACOUSTIC INSULATION

The VESUVIO boiler's high thermal-acoustic insulation is a key design feature to ensure a comfortable and quiet operating experience. This advanced insulation drastically reduces heat loss to the surrounding environment, improving boiler's overall energy efficiency. The high-quality insulation material used not only helps keep the heat inside the system, but also dampens the noise generated during operation. As a result, the boiler operates with a minimal noise level (52 dB), making it ideal for residential installations where acoustic comfort is a priority.

MODULATION 1:7

The 1:7 modulation of the **VESUVIO** boiler represents

an advanced control system that allows the power output of the boiler to be varied between a minimum of approximately 14% up to a maximum of 100% of its total capacity. This means that the boiler can operate at lower intensities during periods of reduced demand, such as when continuous heating is not needed, greatly improving overall energy efficiency. The 1:7 modulation not only enables a more precise and optimised use of fuel, minimising waste, but also reduces mechanical wear due to frequent switching on and off cycles. In this way, the VESUVIO boiler ensures constant thermal comfort by adapting its effective output to the user's specific environmental needs, all contributing to a longer boiler life and lower operating costs.



ADVANCED ELECTRONIC BOARD MANAGEMENT

The electronic board of the VESUVIO boiler is designed to give absolute priority to the supply of domestic hot water over space heating. This function is particularly advantageous daily use, as it makes hot water immediately available for domestic needs such as showers and cooking, without compromising living comfort. The sophisticated control technology of the on-board electronics intelligently manages the distribution of heat, reacting immediately to hot water demands and ensuring a rapid and constant supply.

The ability automatically prioritise sani- tary water reduces waiting times and efficiency

energy, facilitating more effective management of the entire system and ensuring greater comfort.

AXIS NOX

The VESUVIO boiler is equipped with advanced technologies that significantly reduce the production of these pollutants. Thanks to the adaptive pre-mixing system and sophisticated combustion management, the boiler achieves optimal thermal efficiency with extremely low NOx emissions. This not only contributes to improved air , but also ensures compliance with the strictest environmental regulations, making the boiler an environmentally friendly choice for heating.



PREHEATING

Preheating is an advanced technology adopted by the VESUVIO boiler to further improve the efficiency of domestic hot water production. This system allows the boiler to keep a small amount of water always hot in the internal circuit when not in use, thus eliminating the waiting time for hot water to become available the moment a tap is turned on. This approach allows for an immediate supply of hot water, increasing comfort and significantly reducing energy and water wastage, as water does not have to be expelled until the desired temperature is reached. The pre-heating system is particularly advantageous in environments with frequent water demands, reducing the impact of demand on the boiler and maintaining a fast and efficient response. This ability to anticipate needs

of the user results in a better utilisation of energy resources and a significant reduction of operating costs in the long term, making the **VESUVIO** boiler a key element in the panorama of modern and ecologically responsible heating solutions.

COMPOSITE HYDRAULIC BLOCK

The hydraulic block made of composite material increases the service life of the boiler and reduces the risk of corrosion, maintaining optimal performance over time.

STAINLESS STEEL HEAT EXCHANGERS

Stainless steel heat exchangers are synonymous with long life and corrosion resistance, ensuring reliable operation for many years. **COMPACT DIMENSIONS**

Despite its extraordinary technical features, the VESUVIO boiler maintains compact dimensions that make it easy install in any domestic environment.

Easy to use With intelligent display

With its illuminated 2" digital LCD screen and 6-button control panel, it offers easy operation with a modern and stylish appearance.



ERP BOILER DIFFERENCE?

- The circulation pumps of ErP condensing boilers combined with the frequency converter can adjust the pump speed in line with your heating system. It reduces electricity consumption by up to 50 %.
- -ErP condensing boilers comply with EU directives and have lower energy consumption.
- ErP-compliant products are labelled according to their energy class. You can tell how much more economically efficient your boiler is by the label on your product.



TECHNICAL DATA		VESUVIO 24				VESUVIO 28				VESUVIO 33			
GAS CIRCUIT		NG	NG	LPG	LPG	NG	NG	LPG	LPG	NG	NG	LPG	LPG
GAS TYPE		G20	G25	G30	G31	G20	G25	G30	G31	G20	G25	G30	G31
GAS SUPPLY PRESSURE		20	25	30	37	20	25	30	37	20	25	30	37
MAXIMUM GAS CONSUMPTION	m³/h	2.38	2.85	0.73	0.92	3.05	3.05	1.18	1.18	3.4	3.4	1.3	1.3
MINIMUM GAS CONSUMPTION	m³/h	0.37	0.43	0.11	0.11	0.4	0.4	0.14	0.14	0.43	0.43	0.17	0.17
ROOM HEATING SEASONAL ENERGY EFFICIENCY CLASS			,	A			A			A			
SEASONAL ENERGY EFFICIENCY OF SPACE HEATING	%		9)2			9	2			g	2	
USEFUL EFFICIENCY AT NOMINAL HEAT OUTPUT AND HIGH TEMPERATURE REGIME	%	87.6	87.6	87.6	87.6	87.6	87.6	88.5	88.5	87.6	87.6	87.6	87.6
USEFUL EFFICIENCY AT 30% OF THE NOMINAL HEAT OUTPUT AND LOW TEMPERATURE REGIME	%	97.5	97.5	97.5	97.5	97.3	97.3	97.8	97.8	96.7	96.7	97.2	97.2
RADIATOR CIRCUIT		G20	G25	G30	G31	G20	G25	G30	G31	G20	G25	G30	G31
MAXIMUM HEAT OUTPUT PN (50/30 °C)	kW	25	25	24.7	25	30	30	30	30	36	36	36	36
MINIMUM HEAT OUTPUT PN (50/30 °C)	kW	3.6	3.6	3.55	2.9	3.9	3.9	3.9	3.9	3.6	3.6	3.6	3.6
MAXIMUM HEAT OUTPUT (PN) (80/60 °C)	kW	23.7	23.7	23.6	23.7	28	28	28	28	33	33	33	33
MINIMUM HEAT OUTPUT (PN) (80/60 °C)	kW	3.0	3.0	3.2	2.5	4.9	4.9	4.9	4.9	5.7	5.7	5.9	5.9
TEMPERATURE SELECTION RANGE (MIN÷MAX) HIGH TEMPERATURE	°C						25÷	- 80					
TEMPERATURE SELECTION RANGE (MIN÷MAX) LOW	°C						25÷	47					
OPERATING PRESSURE (MAXIMUM/MINIMUM)	bar		3/0	0.5		3/0.5			3/0.5				
VOLUME OF THE EXPANSION TANK	L		7.	/8			7.	/8			7	/8	
MAXIMUM PUMP HEAD (Q= 0 M3/H)	mH2O		6	,2			7	.6			7	.6	
MAX. PUMP CAPACITY	m³/h		2	,3			2	,5			2	,5	
PUMP ENERGY EFFICIENCY INDEX	EEI		≤ 0).20			≤ 0	.20			≤ 0).20	
DOMESTIC HOT WATER CIRCUIT													
ENERGY EFFICIENCY CLASS			,	A			,	4			,	Ą	
DECLARED LOAD PROFILE		I	L	×	L		>	(L			>	K L	
ENERGY EFFICIENCY	%	8	1	8	4		8	33			8	32	
MAXIMUM GAS CONSUMPTION	m³/h	2.38	2.85	0.73	0.92	3.05	3.05	1.18	1.18	3.4	3.4	1.3	1.3
MODULATION RATE			14/	100	•		14/	100			14/	100	
MAXIMUM HEAT INPUT ACS	kW		25	5.8			3	5			38	3.8	
MINIMUM HEAT INPUT ACS	kW		3	.5			3.	75			4.	35	
MAX. MINIMUM/(MAXIMUM) ACS FLOW RATE: Δt: 30°C/: 35°C)	L/min		1.5/(1	2/11)			1.5/(16	.5/14)		1.5/(18.2/15.5)			



TECHNICAL DATA			VESUVIO 24 VESUVIO 28 VESUVIO 33										
ACS PRESSURE (MINIMUM/MAXIMUM)	bar		0.5/10										
TEMPERATURE ADJUSTMENT RANGE	°C						35	-60					
ELECTRICAL CIRCUIT/PROTECTION INDEX	IP						IΡλ	(5D					
ELECTRICITY	V					23	30 V +9	610; - %	15				
ELECTRICITY (MIN./MAX.)	Watts		55	/95			10	4/60			115	5/65	
EXHAUST GAS CIRCUIT		G20	G25	G30	G31	G20	G25	G30	G31	G20	G25	G30	G31
(80/60 °C) EXHAUST GAS TEMPERATURE (MIN./MAX.)	°C	69/71	65/70	57/70	60/70	61/	66	58/	65	57/62		58/67	
(50/30 °C) EXHAUST GAS TEMPERATURE (MIN./MAX.)	°C	49/51	48/49	43/57	47/51	45/	45	43/	45	47/44		49/49	
MAXIMUM EXHAUST GAS TEMPERATURE [MAXIMUM ACS MODE].	°C		7	7 0			7	0			7	0	
WEIGHTED NOX VALUE (GCV) (NOX CLASS: 6)	mg/ kWh	20	19	42	31	4	1	4	9	3	34	5	53
DIMENSIONS (H X W X D)	mm						725x4	20x288					
SOUND LEVEL	dB(A)		5	52			5	54			Ę	50	
MAXIMUM FLUE LENGTH (Ø60/100 MM) [HORIZONTAL*/(VERTICAL*)	m		10/11 10/1				/11			10	/11		
NET WEIGHT/PACKED WEIGHT	kg		32.6/	33.8			34.7/	35.9			35.5	36.7	
ТҮРЕ		B23	B23P,	B33, B	33P, B5	3, B53F	P, C13,	C33, C4	13, C53	, C63, 0	C83, C9	3, C103	3

^{1.} Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters a return temperature of 50 °C.
2. High-temperature operation means a return temperature of 60 °C at the heater inlet and a supply temperature of 80 °C at the heater outlet.

^{*} At the maximum chimney distance, the length of the chimney must be reduced by 1 metre for each 90° bend and by 0.5 metres for each 45° bend.





Magnetic **Filter Defudger With Valve** Minidrain Magnetic filter **defudger** with built-in system shut-off valve and non-return valve. For easy, fast and space-saving installation (in less than 4 cm spacing) under condensing boilers. With 500 micron stainless steel cartridge Magnet type: Neodymium at 11,000 Gauss.

Recommended for boilers up to 35 kW.

Heating/air conditioning use (90°C).

Thanks to the internal patent, it always constrains the passage of water inside the cartridge (where the magnet is located). The dirt separator is small, but without sacrificing the decanting effect+ filtration+ magnetic field + cyclone! Equipped with an internal chamber that insulates the magnet and allows it to be cleaned of iron oxides just by pulling it out.







- 1. Horizontal deflector filter
- 2. Radiator heating system
- 3. Heat generator
- 4. Exhaust

- 1. Vertical deflector filter
- 2. Radiator heating system
- Heat generator
- 4. Exhaust

- 1. Horizontal deflector filter
- 2. Radiator heating system
- 3. Heat generator
- 4. Exhaust

CODE	MODEL		MATERIAL		SCOPE	PN	ATTACHME NTS	DIMEN in r		FILTERING CAPACITY	TEMP. WATER MAX.
		HEAD	HEAD VASE CARTRIDGE		Lt/minute	BAR		Α	В	MICRON	°C
DEFANGER	ARYA	THERMOPL.	THERMOPL.	INOX	30	7	3/4" MF	90	90	500	90



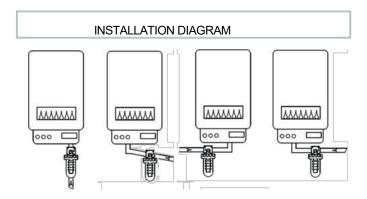
Proportional dosing units with by-pass rotatable connections with fixed shanks

Proportional dosing of polyphosphate powder or cylinders with special rotatable ring nut for mounting with couplings (rotates in 45° steps), in horizontal, vertical and even oblique positions.

The tap by-pass is incorporated on the brass header. With brass by-pass ring, fixed tangs and screw for easy removal. The bellow is equipped with a bacterio- static silver system. A polyphosphate cartridge charge included.

The equipment operates on the principle of proportional dosing using the 'venturi' system. ARYA dispensers are proportional dispensers designed to meet the most demanding installation, maintenance and refilling requirements. They are equipped with a flow divertion valve which, running smoothly on a track

double O.RING, allows the water flow inside the dispenser to be interrupted to allow polyphosphates to be refilled simply, cleanly, quickly and safely without having to close the main line. They are ergonomic dispensers that facilitate the opening of the container, eliminating the risk of bumping into other parts of the dispenser with your hands.



CODE	MODEL	FLOW RATE LT/H	ATTACHMENTS	DIMEN in n	ISIONS nm
		Lt/Min		A	В
DOSER	ARYA	20	½" FF	65	150

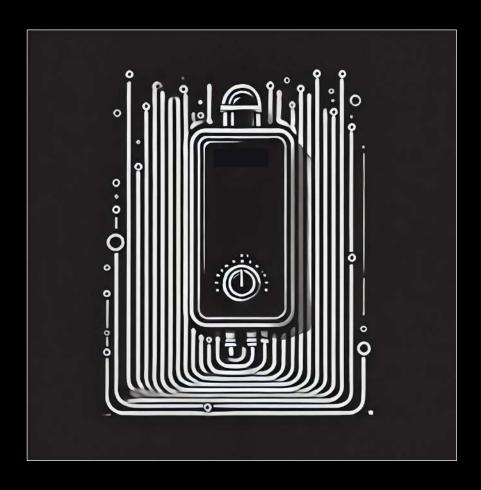
Space-saving condensate neutralisers with antiblocking system

Condensation produced by condensing boilers is acidic, so it is good practice neutralise it (to avoid contamination and corrosion of materials), and our mixture of inert materials acts by raising the pH value. Including elbow connection to allow for other installations, brackets and dowels with screws to fix the system to the wall.

Equipped with Spy Glass Window for viewing the status of the filter mass. Can be wall-mounted in both horizontal and vertical positions. Filters by raising the pH value. Max. flow rate: 3 l/h. Minimum height from boiler outlet: 180 mm. Replace filter material every 8/12 months (or when empty). Use ARYA refill only. To treatment effectiveness and service life, combine 2 systems in series.

CODE	MODEL	CONDENSATE DRAIN TREATMENT		DIMENSION in mm		ATTACHMENTS
			А	В	С	
NEUTRALISER	ARYA	from 0 to 35 kw/h	60	230	130	3/4" with hose connector Ø

GAS WATER HEATERS





Gas Water Heaters: Efficiency and Safety for Every Need

Gas water heaters are a reliable and versatile solution for domestic hot water production, ideal for both domestic and professional use. Within our range, we offer two main types: open chamber and sealed chamber water heaters.

Open chamber water heaters

Perfect for well-ventilated rooms, these models draw air needed for combustion from the surroundings and are ideal for installation in technical rooms or outdoors.

Sealed chamber water heaters

They provide a higher level of safety because they draw air from the outside and completely isolate the combustion process from the indoor environment, making them ideal for residential installations.

Both types offer advanced energy-saving technologies and maximum efficiency, allowing optimal management of gas consumption. Whether for a small flat or a large home, our range of gas water heaters is designed to meet every need with reliable performance, safety and comfort.

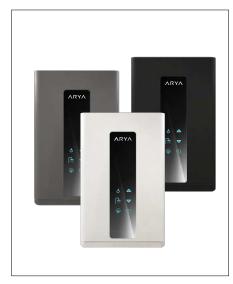
CALIDUS

OPEN CHAMBER 12/14LT



CALIDUS PLUS

WATERTIGHT CHAMBER 12/14LT



CALIDUS PLUS DESIGN

WATERTIGHT CHAMBER 12/14LT





Gas water heater

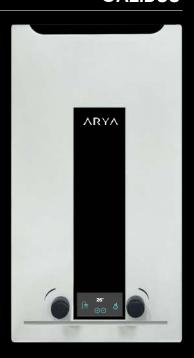
CALIDUS

OPEN ROOM

FOR OUTDOORS

CALIDUS 12LT Met CALIDUS 14LT Met





CALIDUS open chamber gas water heater

In the world of open chamber gas water heaters, choosing a product that combines efficiency, reliability and advanced technology can make all the difference in ensuring uncompromising home comfort. This is where the **CALIDUS** Open Chamber Gas Water Heater comes in.

CALIDUS open chamber is an efficient device designed to heat water through use of

a flame fuelled by methane gas . This type of water heater is characterised by an open combustion chamber, which means that the air required for combustion is drawn from the surroundings. It is essential, therefore, that installation takes place in well-ventilated spaces to ensure adequate air supply and proper exhaust of combustion fumes. **CALIDUS'** design includes integrated safety systems, such as flame control devices and adjustable thermostats, to ensure not only heating efficiency but also user safety. Precise technical configurations, adherence to current regulations, and regular maintenance quarantee optimal performance and a long product life.

NOX

CALIDUS Open Chamber has an IPX4D degree of protection, which ensures high resistance to water ingress from splashes in all directions, making it ideal for installations in environments exposed to humidity. In addition, it complies with NOx emission limits for gas water heaters, falling into Class 6, with a NOx emission≤ 40 mg/kWh, in accordance with EN 15502. This positions CALIDUS at the forefront of ecological regulations, reducing environmental impact. Finally, the device in a high energy class, thus ensuring optimal efficiency in terms of energy consumption, contributing to cost savings and environmental sustainability.

DISPLAY

The distinguishing feature of this water heater is its easy-to-read display, designed to make everyday use intuitive and uncomplicated.

COMPACTNESS AND EFFICIENCY

One of the main advantages of the CALIDUS is its compact size and light weight, making it ideal for installation in small spaces without compromising performance. Its discreet configuration fits perfectly into any domestic environment, offering a practical and powerful solution for heating water.

www.aryagroupspa.com



Gas water heater

CALIDUS PLUS

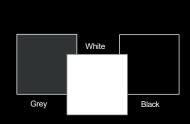
SEPARATE ROOM

FOR INDOORS AND OUTDOORS

CALIDUS PLUS 12LT Met CALIDUS PLUS 14LT Met









CALIDUS PLUS Sealed Chamber Gas Water Heater Innovation and Efficiency with the Sealed Chamber

The CALIDUS PLUS model represents the pinnacle of innovation in gas water heaters, thanks to the

its advanced sealed chamber technology. This system incorporates a closed combustion mechanism that marks a breakthrough over traditional methods, ensuring greater safety, energy efficiency and pollutant emissions. The combustion process takes place within a sealed chamber that does not interact with the indoor environment, eliminating the risk of harmful fumes being emitted into living spaces. The use of the sealed chamber optimises energy consumption by drawing air from outside for combustion, thus reducing heat loss and improving the overall performance of the device. This ensures that the CALIDUS PLUS not only provides a continuous and stable supply of hot water, but also contributes to a more sustainable management of energy resources.

Energy versatility: Available in natural gas, this water heater offers an energy option versatile and convenient.

Energy Class and Protection: The sealed-chamber CALIDUS PLUS has IPX4D degree of protection, which ensures high resistance water ingress from splashes in all directions, making it ideal for installation in environments exposed to humidity. In addition, it complies with NOx emission limits for gas water heaters, falling within Class 6, with a NOx emission≤ 40 mg/kWh, in accordance with EN 15502.

Compact design and lightness

Despite its many features, the CALIDUS PLUS maintains a compact design and low weight, installation even in small spaces.

TOUCH DISPLAY

Equipped with a large, easy-to-read display, it allows precise temperature regulation.

Special functions include:

- Automatic temperature control for optimised use in the kitchen.
- Flame indicator when the water heater is in operation.
- Eco function for energy saving.
- Seasonal water temperature control.
- Water Flow Indicator for constant monitoring.
- Gradual regulation water temperature



Gas water heater CALIDUS PLUS DESIGN

SEPARATE ROOM

FOR INDOORS AND OUTDOORS

CALIDUS PLUS DESIGN 14LT Met









CALIDUS PLUS DESIGN

Elevate every room with the refined design of the CALIDUS PLUS DESIGN sealed-chamber water heater, available in three elegant UNIQUE COLOURS:

BRONZE / ROSE GOLD / RED

The CALIDUS PLUS DESIGN water heater is not only a functional appliance, but also a distinctive element that can serve as an aesthetic centrepiece in any environment. Its ability to combine advanced thermal efficiency with an artistic form makes it the ideal accessory for architects and designers who aim to create elegant and distinctive environments.

vi. Its colour variants, such as bronze, rose gold and red, offer versatility and allow it to harmonise with different furnishing styles, from ultra-modern to refined classic. By integrating this water heater, one can not only meet the functional needs of a home, but also add a touch of originality and luxury that defines and enhances the space.

Energy Versatility: Available in methane, this waterheater offers an energy option ersatile and convenient.

Energy Class and Protection:

The sealed-chamber CALIDUS PLUS has IPX4D degree of protection, which ensures high resistance water ingress from splashes in all directions, making it ideal for installation in environments exposed to humidity. In addition, it complies with NOx emission limits for gas water heaters, falling within Class 6, with a NOx emission≤ 40 mg/kWh, in accordance with EN 15502.

Compact design and lightness:

Despite its many features, the **CALIDUSPLUS** maintains a compact design and low weight, installation even in small spaces.

TOUCH DISPLAY

Equipped with a large, easy-to-read display, it allows precise temperature regulation.

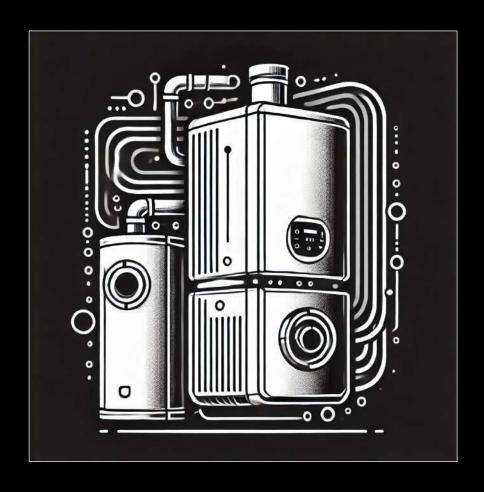
Special functions include:

- Automatic temperature control for optimised use in the kitchen.
- Flame indicator when the water heater is in operation.
- Eco function for energy saving.
- Seasonal water temperature control.
- · Water Flow Indicator for constant monitoring.
- · Gradual regulation water temperature

www.aryagroupspa.com



WATER HEATERS HEAT PUMP





R290 Heat Pump Water HeatersCutting-Edge Efficiency and Sustainability

R290 heat pump water heaters are an innovative solution for domestic hot water production, combining high performance, energy efficiency and environmental friendliness. The refrigerant R290 (propane) is an environmentally friendly choice, with a low environmental impact and extremely low global warming potential (GWP), making these water heaters one of the most sustainable technologies available today.

Thanks to advanced heat pump technology, R290 water heaters utilise the energy in the air heat water efficiently and with significantly lower energy consumption than conventional systems. This feature not only reduces operating costs, but also contributes to a significant reduction in **CO** emissions.

The R290 range of heat pump water heaters is designed to offer maximum reliability and performance in different climatic conditions, making it suitable for both residential and commercial applications. Moreover, thanks to their compact design and silent functionality, these devices integrate perfectly into any environment, without compromising space or comfort.

Choosing an R290 heat pump water heater means investing in a state-of-the-art technology that combines efficiency, energy savings and sustainability, while ensuring constant and safe comfort for your home or business.

FUSION

HEAT PUMP WATER HEATER 80L/100L



FUSION

HEAT PUMP WATER HEATER 200L/300L





Innovation and Efficiency for your comfort! FUSION LINE

RESIDENTIAL
R290 Heat Pump Water Heater

AR80L-PC AR100L-PC













A **heat pump water heater** offers several technical and operational advantages over a conventional electric water heater. Firstly, energy efficiency is significantly higher due to operating principle extracting heat from the ambient air and using compressors to heat water. This results in a higher COP (Coefficient of Performance), reducing energy consumption by up to 70% compared to conventional electric models. Furthermore, due to the advanced nature of the technology employed, operating costs are reduced, leading to considerable savings on utility bills in the long term. Heat pump water heaters also contribute to lower environmental impact, as they reduce CO2 emissions, making them a more sustainable choice for domestic water heating.

Incentives for Heat Pump Water Heaters

Heat pump water heaters can benefit from various incentives offered by the government and local authorities, aimed at promoting energy efficiency and environmental sustainability. Due to their efficiency, it is possible to benefit from tax deductions that can cover up to 65% of the costs, making the investment more affordable.

Furthermore, in some cases, additional regional subsidies or local incentives are available that support the adoption of energy-efficient technologies. These incentives not only make initial investment more affordable, but also increase the economic attractiveness of heat pumps in the long run, stimulating a transition to cleaner energy solutions for water heating.





ENVIRONMENTALLY FRIENDLY REFRIGERANT GAS R290

Compared to conventional refrigerants, R290 has a significantly lower global warming potential (GWP), helping to mitigate the effects of climate change. In addition, its high energy performance coefficient facilitates better heat transfer, improving operating efficiency of the water heater. Fusion utilises these characteristics of the R290, ensuring not only environmentally responsible operation, but also a decrease in greenhouse gas emissions. adopting the R290 refrigerant gas, the consumer can benefit from a system that combines high performance with an environmentally responsible approach.

1.2Kw RESISTANCE

Equipped with a powerful 1.2KW heating element, Fusion provides fast and efficient heating while maintaining maximum comfort.

The 1.2KW electrical resistance in the Fusion is designed to intervene only when strictly necessary, thereby optimising the unit's overall energy efficiency. This means that the resistor kicks in automatically and exclusively during periods of maximum load or when environmental conditions do not allow the heat pump to operate at capacity, for example during particularly cold days or low humidity.

This functionality ensures a constant supply of hot water without compromising on efficiency, as use of the heating element is limited to cases where the primary heating system alone is not sufficient to meet demand. In this way, the system keeps operating costs low, using the heating element only as a temporary support in situations that require it.

MANAGEMENT APP AND INTEGRATED WIFI

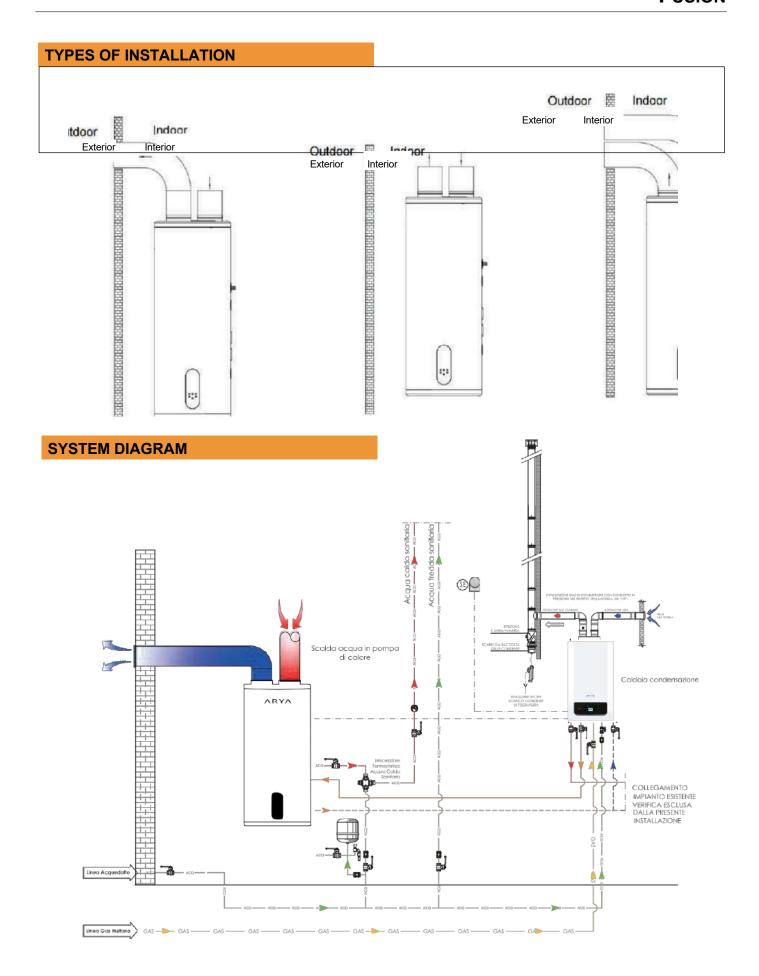
The integration of a management app and WiFi connectivity into the Fusion system is a major step forward in terms of control and convenience. Through the app, users can monitor energy consumption in real time, set desired temperatures and schedule heating cycles flexibly and precisely. This functionality not only enables a more efficient use of the system, but also helps to personalise the user experience according to the specific needs of the household. In addition, the WiFi connection enables automatic software updates, ensuring that the system always operates with the latest available functionality. Remote control through the app also facilitates the resolution of technical problems in a timely manner, improving overall reliability and durability of the product. Thanks to these digital innovations, Fusion is not just a heating device, but a smart element integrated into your home.

TOUCH INTERFACE WITH LCD DISPLAY

The Fusion's touch interface with LCD display provides intuitive and immediate control, making it easy to manage the various settings.











TECHNICAL DATA			AR80L-PC	AR100L-PC	
POWER SUPPLY			220- 240V/1/50Hz	220- 240V/1/50Hz	
HEATING CAPACITY		W	950	950	
NOMINAL HOT WATER PRODUCTION	N	L/h	20	20	
NOMINAL INPUT POWER		W	220	220	
RATED INPUT CURRENT		А	0.98	0.98	
COP		W/W	4.32	4.32	
ELECTRIC HEATER	RATED POWER INPUT	W	1200	1200	
	RATED CURRENT INPUT	А	5.45	5.45	
MAX. POWER CONSUMPTION		W	1500	1500	
MAX. INPUT CURRENT		А	6.81	6.81	
REFRIGERANT / CHARGE / GWP			R290/0.15kg/3	R290/0.15kg/3	
C02 EQUIVALENT			0.00045t	0.00045t	
WORKING ENVIRONMENT TEMPER	ATURE	°C	-7~43	-7~43	
ELECTRICAL ENERGY EFFICIENCY		%	118.3	118.3	
COP (DHW) EN16147 20-15°			2.787	2.787	
ENERGY EFFICIENCY CLASS			A+	A+	
MAXIMUM VOLUME OF MIXED WAT	ER	L	87	87	
OPERATING PRESSURE (LOW SIDE	<u>:</u>)	MPa	0.8	1	
OPERATING PRESSURE (HIGH SIDE	≣)	MPa	3	3	
MAXIMUM PERMISSIBLE PRESSURI		MPa	3	3	
ELECTRIC SHOCKPROOF			I	I	
IP CLASS			IPX1	IPX1	
WATER TANK CAPACITY		L	80	100	
WATER PIPE CONNECTIONS			DN18	DN18	
NOMINAL WORKING PRESSURE OF T	HE TANK	MPa	0.8	0.8	
NOMINAL AIR FLOW		m3/h	450	450	
UNIT DIMENSIONS		mm	φ468*1222	φ468*1442	
NOISE		dB(A)	48	48	
NET WEIGHT		Kg	48	56	



Innovation and Efficiency for your comfort!

LINE FUSION

R290 Heat Pump Water Heater

AR200L-PC
AR200L-PCS With Solar Integration
AR300L-PC
AR300L-PCS With Solar Integration













FUSION 200/300L Heat Pump Water Heater: Efficiency and Versatility

THE FUSION 200/300L is designed to meet high capacity water heating needs, making it the ideal solution for a wide range of residential and commercial installations. Thanks to its advanced heat pump technology this water heater offers superior energy efficiency, reducing consumption and providing significant savings in operating costs.

With its robust and versatile design, **THE FUSION** 200/300L is perfect for installations in luxury, large flats, as well as industrial buildings and sports facilities such as gyms and sports clubs. capacity of 200 or 300 litres ensures ample hot water availability to meet even the most requirements. This makes it a strategic choice for anyone wishing to optimise energy efficiency without compromising performance or comfort.

FUSION Line: FUSION PC and FUSION PCS with Solar Integration

The Fusion line designed to adapt to different water heating needs, offering two distinct configurations: Fusion PC and Fusion PCS with Solar Integration. The Fusion PC version employs heat pump technology to energy efficiency by relying solely electricity heating. On the other , the Fusion PCS version with Solar Integration is a highly innovative option that allows the system to be connected to solar thermal panels. This connection not only further energy costs, but also minimises environmental impact.

By choosing the configuration with Solar Integration, users can benefit from the free heat provided by the sun, making the Fusion system not only a champion efficiency, but also an ecologically and economically advantageous choice



ENVIRONMENTALLY FRIENDLY REFRIGERANT GAS R290

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INCENTIVES

aimed at promoting energy efficiency and environmental sustainability. Due to their efficiency, it is possible to benefit from tax deductions that can cover up to 65% of the costs, making the investment more affordable.

Furthermore, in some cases, additional regional subsidies or local incentives are available that support the adoption of energy-efficient technologies. These incentives not only make initial investment more affordable, but also increase the economic attractiveness of heat pumps in the long run, stimulating a transition to cleaner energy solutions for water heating.

1.5Kw RESISTANCE

Equipped with a powerful 1.5KW heating element, Fusion provides fast and efficient heating while maintaining maximum comfort.

The 1.5KW electrical resistance in the Fusion is designed to intervene only when strictly necessary, thereby optimising the unit's overall energy efficiency.

This means that the resistor kicks in automatically and exclusively during periods of maximum load or when ambient conditions do not allow the heat pump to operate at full capacity, e.g. during particularly cold or low-humidity days.

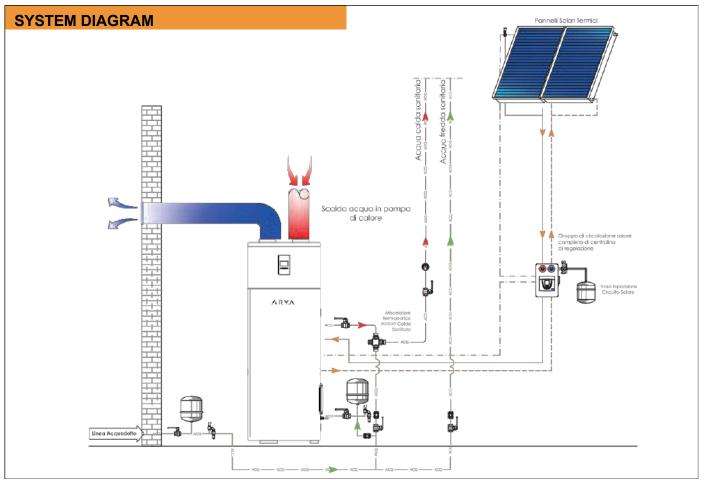
This functionality ensures a constant supply of hot water without compromising on efficiency, as the use of the heating element is limited to cases where the primary heating system alone is not sufficient to meet demand. In this way, the system keeps operating costs low, using the heating element only as a temporary support in situations that require it.

MANAGEMENT APP AND INTEGRATED WIFI

The integration of a management app and WiFi connectivity into the Fusion system is a major step forward in terms of control and convenience. Through the app, users can monitor energy consumption in real time, set desired temperatures and schedule heating cycles flexibly and precisely. This functionality not only enables a more efficient use of the system, but also helps to personalise the user experience according to the specific needs of the family. In addition, the WiFi connection enables automatic software updates, ensuring that the system always operates with the latest available functionality. Remote control through the app also facilitates the resolution of technical problems in a timely manner, improving overall reliability and durability of the product. Thanks to these digital innovations, Fusion is not just a heating device, but a smart element integrated into your home.











TECHNICAL DATA	AR200L-PC/PCS	AR300L-PC/PCS
TANK CAPACITY	200L	300L
OUTER CLADDING	Painted galvanised steel	Painted galvanised steel
ENERGY EFFICIENCY INDEX	A+	A+
STRUCTURE	Update on plastics	Update on plastics
COP	3.9	3.9
POWER SUPPLY	220V~50Hz	220V~50Hz
HEAT PUMP HEATING CAPACITY	1500W	1500W
WATER HEATING CAPACITY	35L/h	35L/h
MAXIMUM INPUT POWER	2100W	2600W
NOMINAL INPUT POWER	385W	385W
POWER OF THE ELECTRIC ELEMENT	1500W	2000W
MAXIMUM WATER TEMPERATURE	75°C	75°C
NOMINAL WORKING PRESSURE OF THE TANK	0.8MPa	0.8MPa
TYPE OF COMPRESSOR	Rotating, Fixed	Rotating, Fixed
COMPRESSOR MODEL	Model: GMCC,RDTN150D21TEZ31	Model: GMCC,RDTN150D21TEZ31
TYPE OF EVAPORATOR	Microchannel heat exchanger	Microchannel heat exchanger
TYPE OF LIMITATION	Electronic Expansion Valve (EEV)	Electronic Expansion Valve (EEV)
NOISE LEVEL	40 dB(A)	40 dB(A)
REFRIGERANT	R290/150g	R290/150g
AMBIENT OPERATING TEMPERATURE	-5~45°	-5~45°
WATER CONNECTION DIMENSIONS	G3/4	G3/4
MAXIMUM OPERATING PRESSURE	3.0 MPa	3.0 MPa
NET WEIGHT	95kg	129kg
NET SIZE	650x1440mm	650x1850mm
PACKAGED DIMENSIONS	705x1555mm	705x1965mm







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THE COMFORT





