

SIEMENS

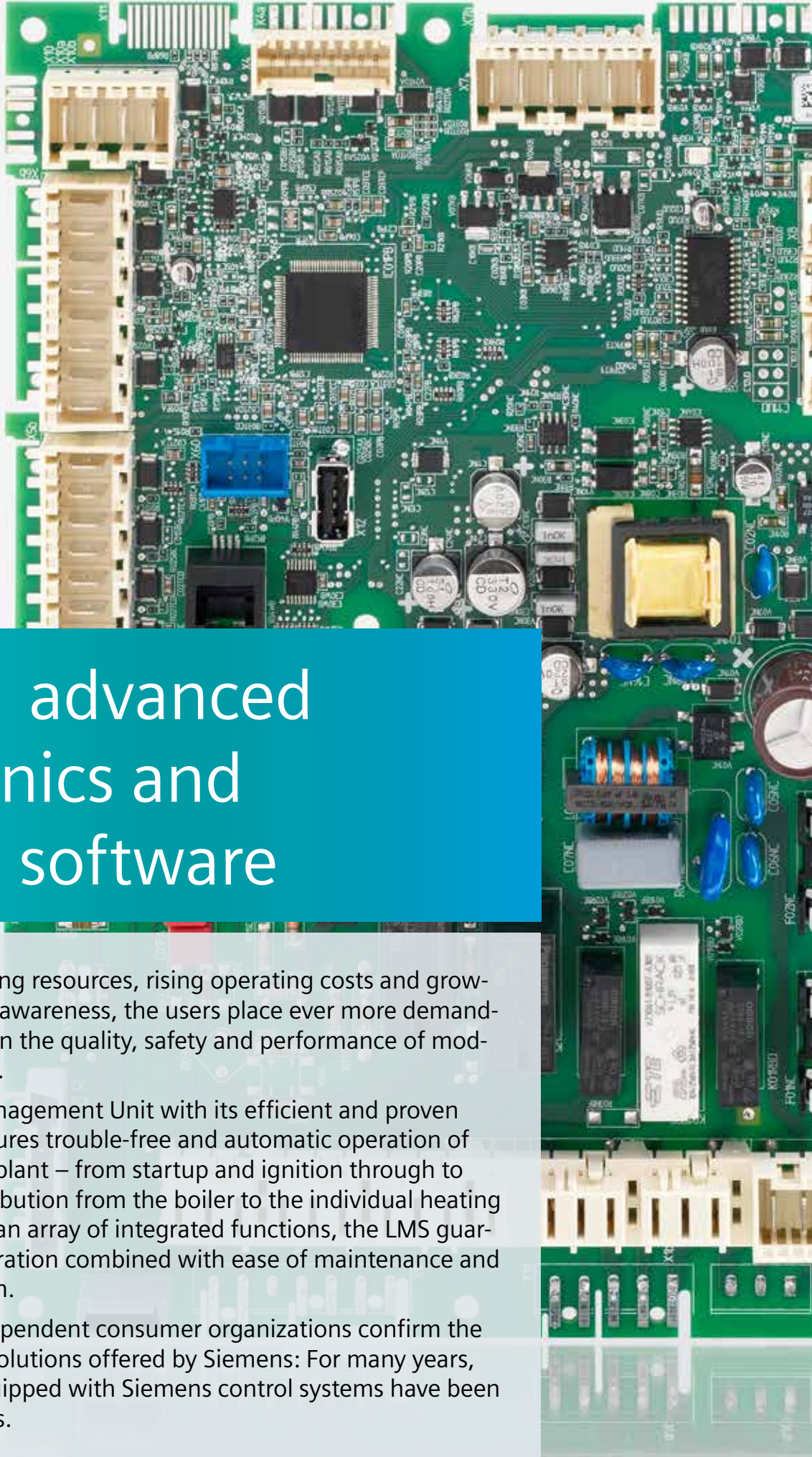
Ingenuity for life

LMS – The modular management system for condensing boilers

Control Products & Systems OEM



www.siemens.com/buildingtechnologies-oem



LMS – advanced electronics and proven software

At times of dwindling resources, rising operating costs and growing environmental awareness, the users place ever more demanding requirements on the quality, safety and performance of modern heating boilers.

The LMS Boiler Management Unit with its efficient and proven safety concept ensures trouble-free and automatic operation of the entire heating plant – from startup and ignition through to targeted heat distribution from the boiler to the individual heating circuits. Thanks to an array of integrated functions, the LMS guarantees perfect operation combined with ease of maintenance and efficient production.

Tests made by independent consumer organizations confirm the superiority of the solutions offered by Siemens: For many years, heating boilers equipped with Siemens control systems have been among the winners.

Complete solution for modern condensing appliance technology

Always the matching solution to hand – products and systems from Siemens for the heating market

We specialize in the development, production and global marketing of reliable and innovative products and systems for use on forced draft burners, heating boilers and alternative heating systems. Our comprehensive product portfolio includes complete system solutions, burner controls, actuators, sensors, control systems, valves and related test equipment.

Thanks to specialization and decades of experience in these fields, our products and systems offer optimum solutions for all market segments ranging from single- and multi-family houses (residential buildings) to commercial buildings and a host of industrial applications.

LMS – the central module for innovative condensing boilers

Our LMS Boiler Management Unit is the heart of a modular and holistic system solution for condensing boilers with capacities from less than 10 kW to 2 MW.

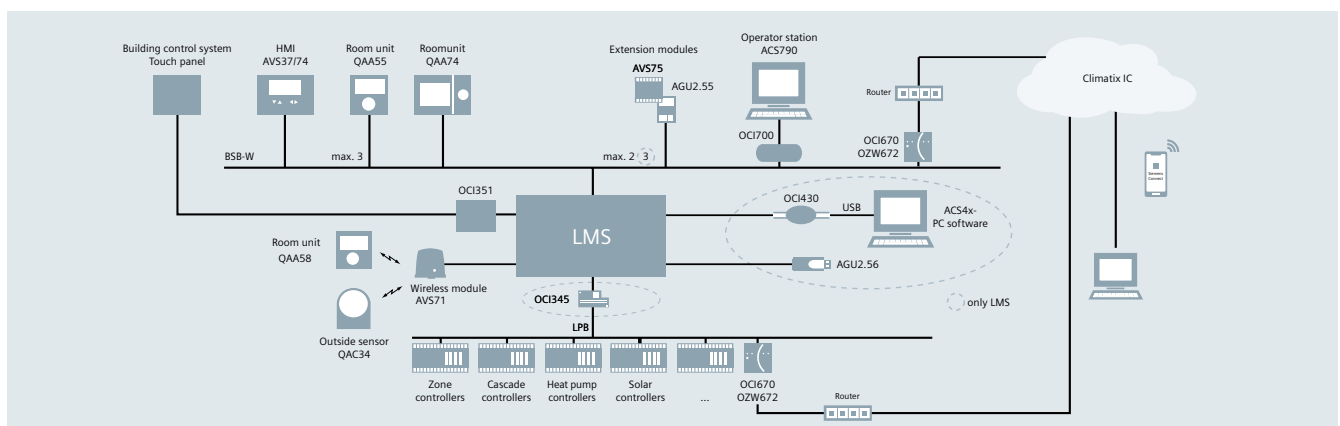
The different versions of the easy-to-understand operating units, room units and heating controls with backlit display and clock functions satisfy all requirements. Extension modules for specific applications offer great flexibility also in the case of retrofits in the field. Thanks to built-in interfaces and optional system integration plus remote management, a number of service and preventative functions are provided. Extensive information on the plant can thus be retrieved, potential faults can be detected, or notification of scheduled maintenance work can be given well in advance.

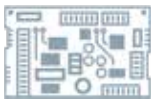
Communication across system boundaries

Open communication via Open-Therm or Modbus makes it possible to exchange information across system boundaries. This allows the operation of touch panels and room units to be individually designed, and connections to higher-level systems to be flexibly implemented. Together with the Climatix IC cloud solution, new service and business opportunities arise.

HIGHLIGHTS

- Part of the harmonized and consistent Albatros²-product platform
- Extendable via system bus to facilitate system application / integration
- Optimum energy usage and low standby losses
- New service and commissioning functions including detailed diagnostics messages in clear-text
- For capacities from <10 kW to 2MW





Boiler product range



Operating units



Room units



Extension modules



Wireless interface and parameter stick



Sensors



Controllers



Gas valves



Mixer

New perspectives with a harmonized full system solution

Comprehensive product range

Our cutting-edge technologies are setting standards the world over: whether in the form of our custom operator interfaces, combustion optimization, or the ability to communicate via phone and Internet.

The LMS is an integral component of the Albatros² range of products. This means that all peripheral devices such as room units, sensors, extension modules, etc., can be used with the

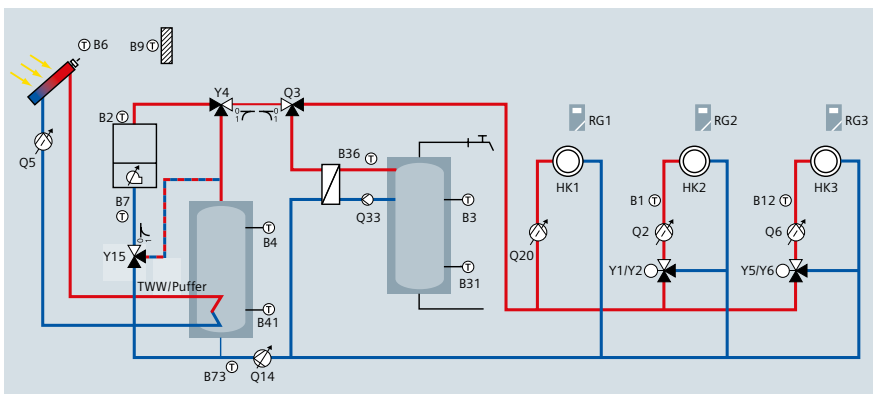
LMS. Uniform and consistent parameter settings are made possible throughout the product range.

Gas valve and mixer ensure optimum air-gas mixtures. Integrated combustion optimization, pump modulation and stepper motor control make certain that energy is optimally used while noise is kept at a low level.

This comprehensive product harmonization offers decisive benefits in the fields of production, service, training and spare part handling.

The LMS14 is available for pneumatic air-gas ratio control in connection with gas valves of the VGU7/8 line.

The LMS15 sets new standards based on Sitherm Pro combustion optimization in combination with gas valves of the VGE line.





Convenient and time-saving: straightforward administration, programming, and configuration of the LMS: even configurations of complex installations can be saved in advance on the desktop and copied to the LMS memory locally with the parameter stick; no other tools are needed. Exporting configurations for offline diagnostics is just as easy.

Broad area of application

The numerous different options, among them control of the PWM pumps with special algorithms and integration of wireless outside sensors, make the LMS the solution of choice for an application spectrum including all manner of heating and hot water systems.

Easier configuration and more efficient service

Whether for boiler configuration in a laboratory environment or the administration and archiving of boiler data records, Siemens can supply the right software for the job. Automated parameter setting during final inspection of the boiler and intelligent spare parts parameterization complete the offer.

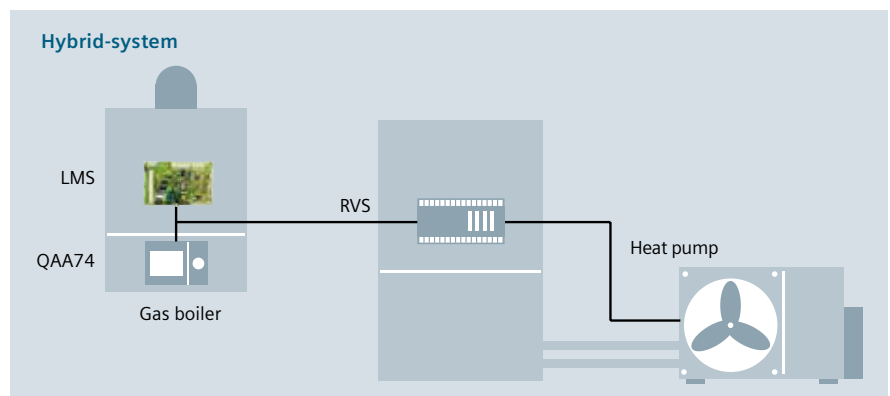
With the Siemens parameter stick, you can set up your configuration quickly and easily. Even when in the field you can set up alternative options quickly and securely with the Siemens parameter stick. This reduces the number of different spare parts in stock and carried by service personnel.

Articulate operator units

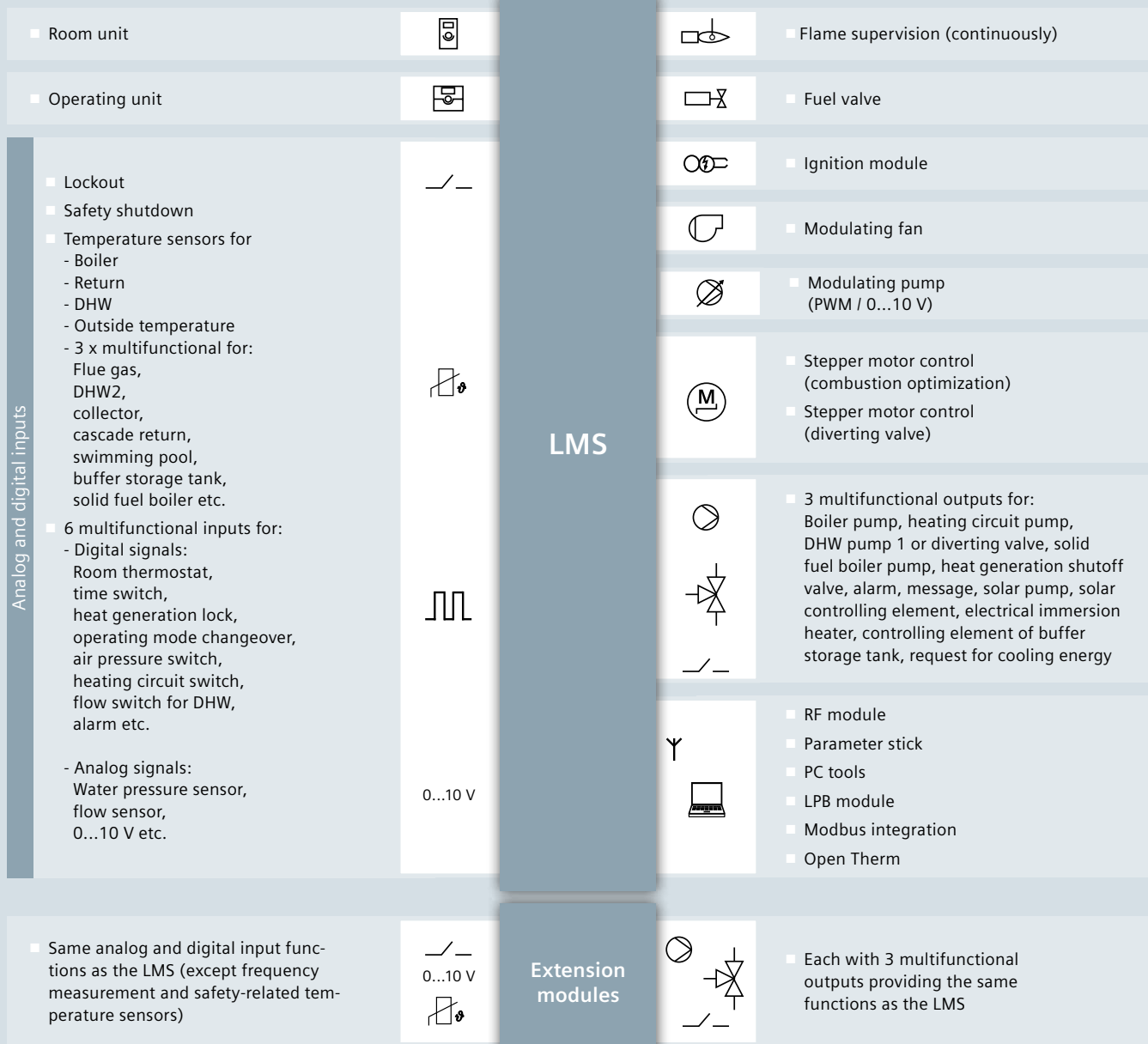
Moreover, in the event of a fault, the multilingual plain text display on the operator units provides you with the information you need for accurate and fast troubleshooting. Service work takes less time to complete and false alarms are avoided.

HIGHLIGHTS

- Reading in plant data via the parameter stick
- Controlling complex installations
- Integration of wireless outside sensors and wireless room units
- Controlling of 0...10 V- and PWM pumps
- Integrated stepper motor control for diverting valves



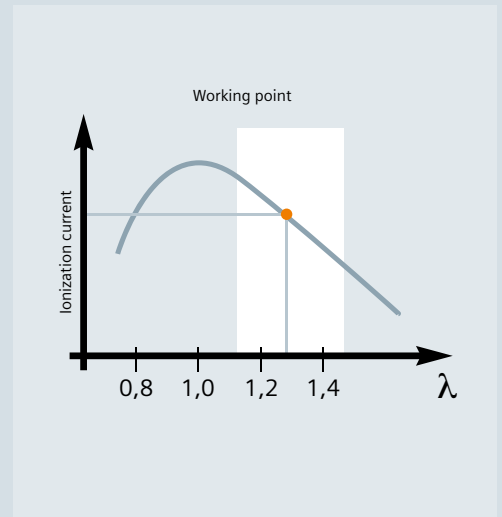
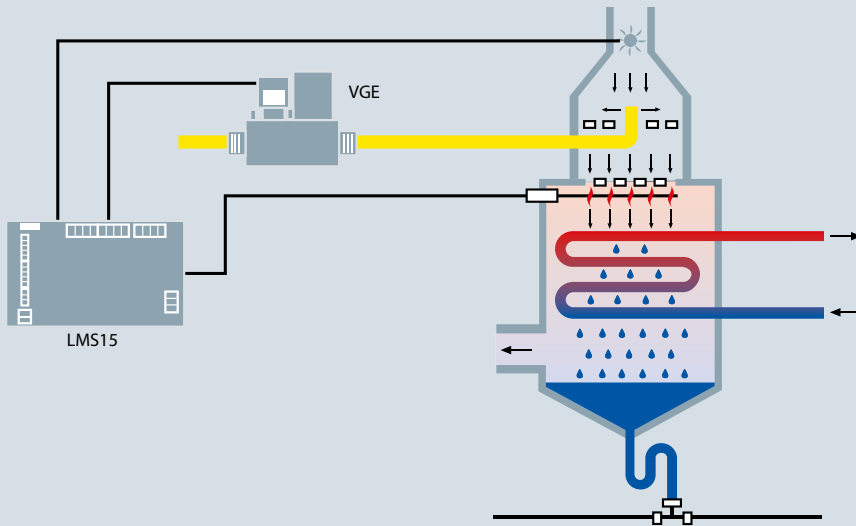
Great flexibility thanks to parameterized functions and extension modules



Flexibility in a class of its own
 Extension modules make the LMS even more versatile and powerful.

The inputs and outputs can be used in different ways and offer an unlimited number of applications, whereby the type of hydraulic system is identified automatically.

Up to three extension modules create additional choices for customized plants, enabling the implementation of complex systems, if required.



The perfect partnership: LMS 15 and gas valves from the VGE range.

Sitherm Pro

Sitherm Pro stands for a form of effective and efficient combustion optimization.

Production, commissioning and operating costs are cut while environmentally friendly combustion and low emission levels are ensured.

Sitherm Pro improves the entire combustion process. Different ignition methods safeguard the starting of the boiler.

Efficiency is increased and optimum flue gas levels are guaranteed over long periods of time, enabling them to remain within the required statutory boundaries over the entire operating time. The ionization current is used as an indicator of the quality of combustion.

Easy installation and operation

Sitherm Pro adapts automatically to external influences such as gas quality variations or changes in atmospheric pressure. This simplifies boiler production, saves commissioning time, and the gas valve need not be adjusted during installation.

Wide modulation range

Accurate supervision and control of the flame make it possible to lower the limits of low-fire operation, thus allowing the modulation range to be widened.

HIGHLIGHTS

- Low emissions, efficient and therefore environmentally friendly combustion
- Easy installation and operation
- Wide modulation range
- Automatic adaptation to gas quality
- Fewer different types of boiler
- Automatic drift adaptation



When building technology creates perfect places –
that's Ingenuity for life.

Never too cold. Never too warm.
Always safe. Always secure.

With our knowledge and technology, our products,
our solutions and our services, we turn places into
perfect places.

We create perfect places for their users' needs –
for every stage of life.

#CreatingPerfectPlaces

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