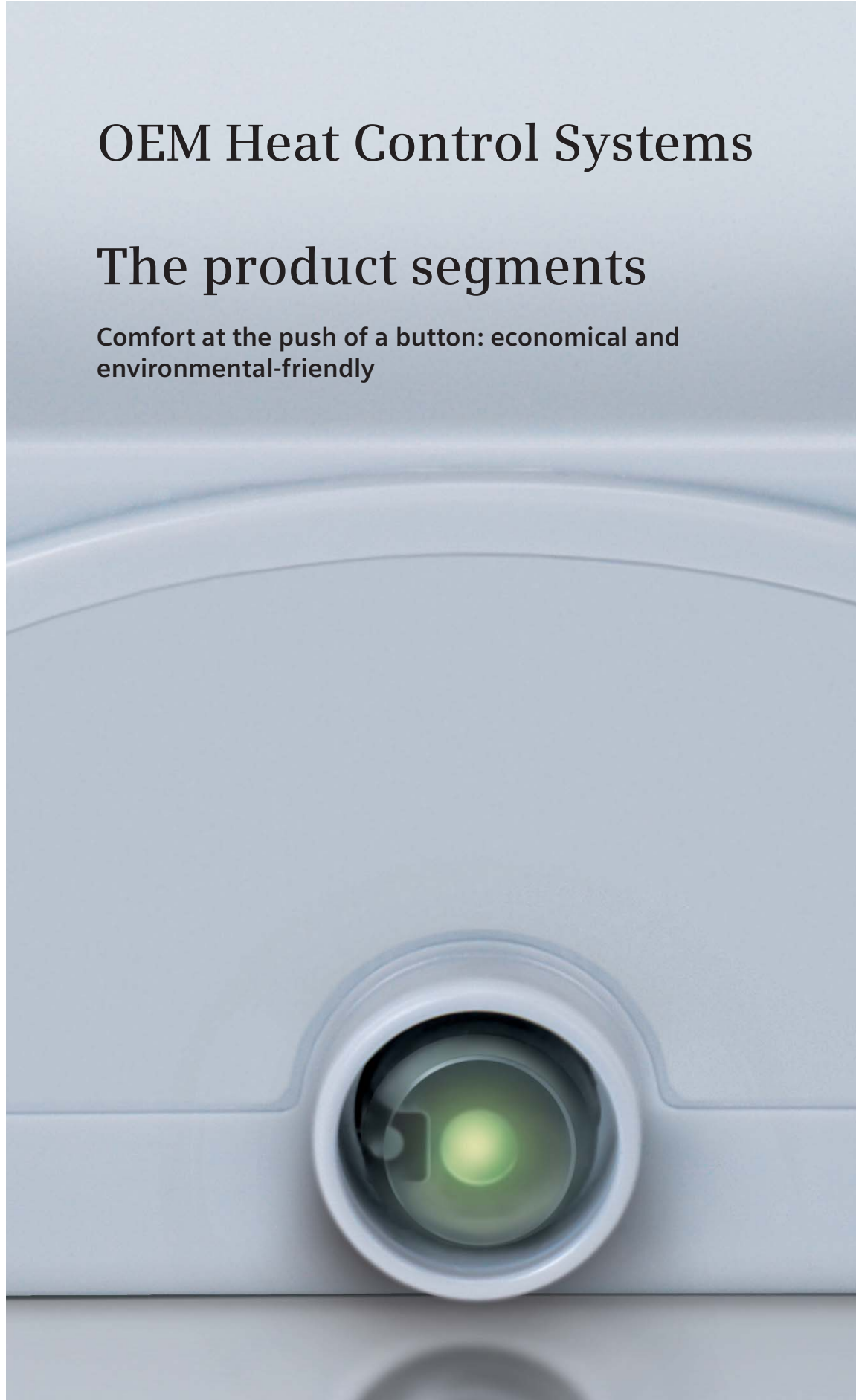




# OEM Heat Control Systems

## The product segments

Comfort at the push of a button: economical and environmental-friendly



Answers for infrastructure.

**SIEMENS**



## The right product for every application

Siemens specializes in the development, production and global marketing of high-quality and innovative products and systems for use on forced draft burners, heating boilers, alternative heating systems and industrial plants. Our comprehensive product portfolio includes complete system solutions, burner controls, actuators, flame detectors, 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.

# Tailored solutions in cooperation with our customers

## ■ Teamwork, optimized processes and quality

Efficient teamwork has a major impact on our way of thinking, in our actions and innovation processes. In the OEM team of Siemens, the joint efforts of qualified and motivated staff and the exchange of experience have been decisive for success.

We continually rely on teamwork, both within the company and in close cooperation with our customers and suppliers.

In the fields of heating, combustion and alternative heating systems, Siemens is a preferred controls supplier to leading OEMs throughout the world – thanks to our working methods, the quality and reliability of the products, our customer approach and business processes which have been matched to the specific needs of the OEM market.

## ■ Experience and know-how

For more than 40 years, Siemens has developed and produced high-performance control systems and products for the heating market and the industrial sector.

To satisfy the increasingly demanding requirements of today's production processes, our development department performs extensive project work, aimed at optimizing and further developing industrial firing systems.







## ■ Success through partnership

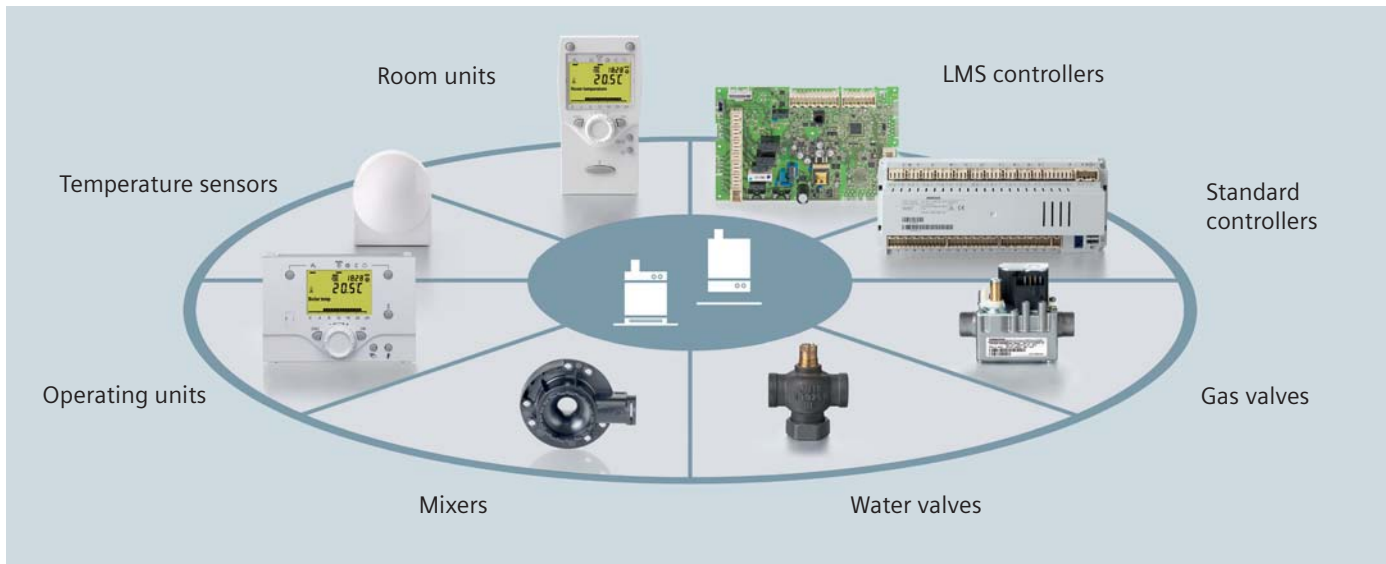
When creating a system solution tailored to your specific needs, Siemens as your partner will be pleased to assist at any time.

**We attach great importance to teamwork, both within our company and in close cooperation with customers.**

## Highlights

- More than 40 years experience and Know-how
- Innovation thanks to concentrated development
- Consistent consultancy and close cooperation
- Heating based on energy-saving technologies
- Optimum systems for demand-related solutions
- Global approvals

	Residential Buildings	Commercial Buildings	Industry
 Wall-hung boilers	■		
 Floor-standing boilers	■		
 Alternative heating systems	■		
 Forced draft burners (small)		■	
 Forced draft burners (medium / large)			■
 Industrial burners			■



# Boiler controls for enhanced room comfort

## ■ Perfectly matched components

Using decades of experience in the field of boiler components and in close cooperation with key customers, Siemens has become a leading supplier of heating control systems.

On the basis of this expertise, we developed a mature and consistent product portfolio ranging from basic boiler control systems – including flame supervision – to high-end solutions with integrated combustion optimization. So you will find proven systems of modular design to satisfy almost any need.

The product range designed for the control and supervision of boilers, for the control of heat production and heat distribution, including peripheral devices, is consistent,

compatible and complete. Bus communication covers cascaded and networked systems, remote supervision, and connection to building automation and control systems.

## ■ Innovative boiler management

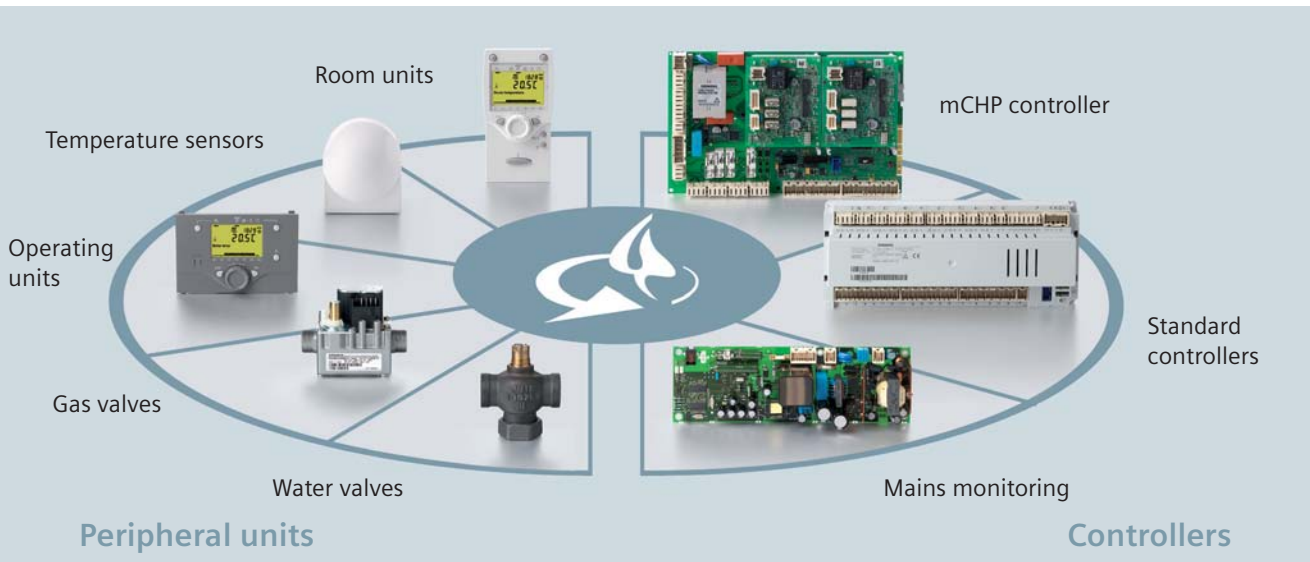
Siemens also offers Boiler Management Units for the control of boilers, including matching accessories. In addition to the connection of digital room temperature control, building automation and control systems and remote supervision equipment, integrated bus communication facilitates implementation of comfort zones, solar energy systems and cascades.

## Highlights

- Harmonized, consistent and matching product platforms
- Product range of modular design
- Room/operating units with clear-text display in several languages
- Gas valves for all types of application







# AHS – the alternative solution

## ■ Siemens and the environment

The customized products and systems made by Siemens help reach compliance with the Kyoto protocol. Our declared objective: Increased usage of environment-friendly and inexhaustible energy in place of fossil fuels. This is made possible by optimized products and efficient solutions in connection with renewable forms of energy. Siemens markets a consistent range of products and systems for use with heat pumps, micro combined heat and power, solar plants, and much more.

## ■ Micro heat and power plants

Micro plants for combined heat and power generation are driven by an innovative Stirling engine. They produce heat, hot water and electricity. Electrical energy not needed by the plant itself is fed back into the mains network.

## ■ Heat pumps

With the help of heat pumps, the natural heat freely available in the air or the ground is exploited and used for space heating or DHW. High levels of efficiency, low maintenance costs and inexhaustible resources are the advantages offered by this type of heat generation.

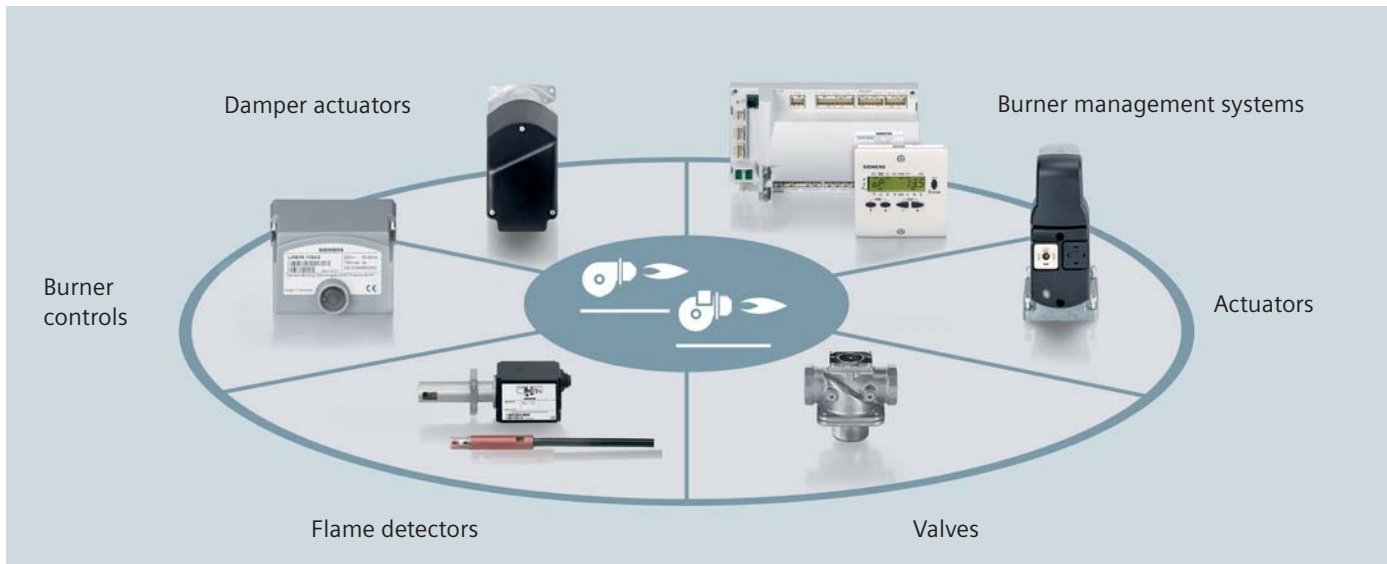
## ■ Solar applications

Siemens offers complete integration of different types of solar applications in its boiler, heat pump and heating controllers of the Albatros<sup>2</sup> range. In addition to integrated solutions, we deliver a compact controller with delta-T application plus a multi-functional system-compatible controller.

## Highlights

- Space heating, DHW heating and power generation
- Universal controllers for all types of heat pump
- Cascaded systems and bivalent applications with other types of heat source
- Solar support via buffer storage tank





# For forced draft burners of any capacity

## ■ Products for all needs

To ensure safe and reliable control and supervision of forced draft burners, Siemens offers a broad range of matching components: Burner controls and flame detectors for intermittent or continuous operation, actuators, valves, and controllers.

Bases and consoles are available with universal or customized electrical connections – favorably priced and service-friendly.

Siemens actuators for fuel dampers operate very accurately and excel in security, longevity and straightforward operation. Gas, oil and air valves with matching electrohydraulic actuators and controllers guarantee efficient and reliable operation. The product range is complemented by universal load controllers and sensors.

## ■ Capacity range

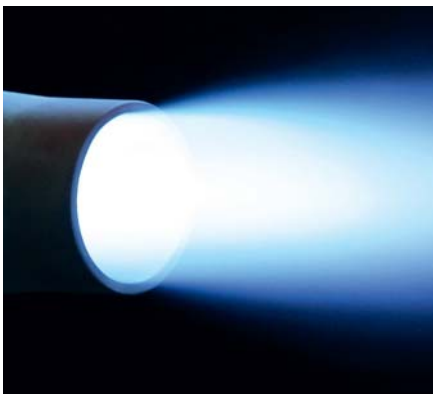
Siemens products can be found in almost any burner capacity category. Use of our components starts at 20 kW for small-capacity burners, up to about 2 MW for large-capacity burners, and up to about 30 MW for large industrial installations.

## ■ Safe operation

Burner controls from Siemens feature a redundant, 2-channel microprocessor-based system and 2 independent shutdown paths for safety-related functions.

## Highlights

- Burner controls for almost any type of forced draft burner
- Safety-related functions
- Matching accessories
- Customized versions





# Powerful products for industry

## ■ Reliable burners for production

Industrial burners are the heart of every thermal process-based production line, and the quality of the final product depends primarily on the burner's reliability and performance. Low maintenance effort and maximum availability, high levels of energy efficiency and seamless integration into existing automation systems are the key requirements placed on advanced firing systems. Using decades of experience, know-how and commitment in the field of industrial firing systems, Siemens has become a key partner for manufacturers of high-quality thermoprocessing equipment.

## ■ Siemens Solution Partner program

Our Solution Partners deliver all elements and services required for operating closed thermal process plants – from engineering and measures required for plant optimization to gas control systems and switch-board construction including comprehensive services.

The Solution Partners for industrial combustion are well trained and have the latest information about Siemens products. We maintain a continuous dialog with these partners, aimed at meeting current market needs.

## Highlights

- Optimum systems for demand-related solutions
- Complete gas trains in cooperation with our partners
- Robust and reliable products



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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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