



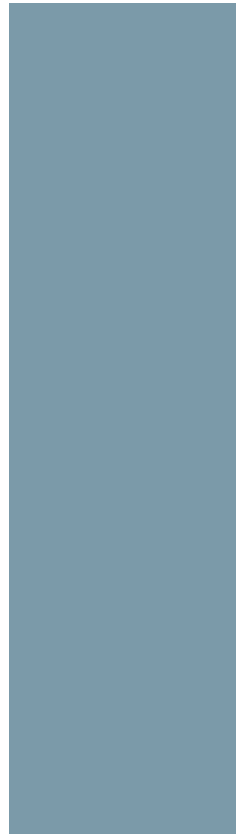
# OEM Heat Control Systems

## Matching components for heating boilers



Answers for infrastructure.

**SIEMENS**



## Optimum system solutions for enhanced room comfort

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

Based on this expertise, we developed a sophisticated and matching product portfolio ranging from basic burner control to high-end solutions with integrated combustion optimization. Hence, you will find a host of proven systems of modular design for almost any type of application.

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



# Innovative solutions for all market segments

■ **Always the right solution at 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 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.

■ **All from a single source – teamwork, optimized processes and quality**

Today, 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 motivated and qualified staff and the exchange of experience are 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 heat generation and heat distribution, 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. Employing advanced production processes, such as Kanban or just-in-time, we are able to respond quickly to the latest customer needs.

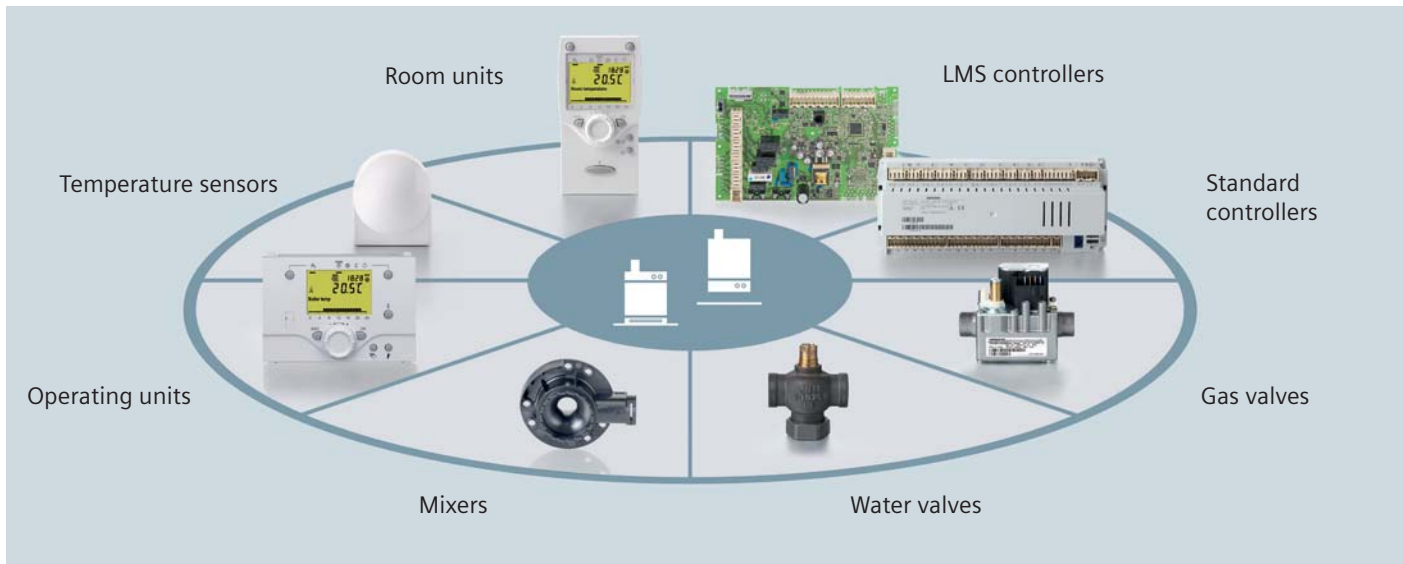
**As a global market leader, we are also part of your market. This means that we not only work for you, but also think like you. For certain!**

## Highlights

- Harmonized, consistent and matching product platforms
- Host of applications
- Complete and comprehensive product portfolio
- Extensive system solutions
- Product range of modular design



	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			■



# Complete system solutions from Siemens

Environmental consciousness, the conservation and efficient use of scarce energy resources set the focus on matching and energy-saving systems.

Using innovative solutions, Siemens helps reach these objectives by offering a consistent and comprehensive range of products optimized for heating boilers.

Our core products, boiler control systems and an extensive range of accessory items were developed to satisfy these needs.





## And much more

### ■ Complete range of gas valves ...

... were developed specifically for universal use in conventional heating boilers and condensing boilers. Applications range from on/off operation for multi-stage boilers through electrical modulating operation for atmospheric boilers to pneumatic ratio control for premixing applications. Another variant is the gas valve actuated by a stepper motor for use with electronic ratio control.

### ■ Universal range of sensors ...

... in many different versions for a host of applications: Cable, threaded immersion, strap-on and outside sensors.

### ■ Room units with optimized operation and display ...

... offers Siemens as an extensive range. Connections are made via radio link or wire. Key features are straightforward operation, clear-text and backlit display

### ■ Powerful gas-air mixers ...

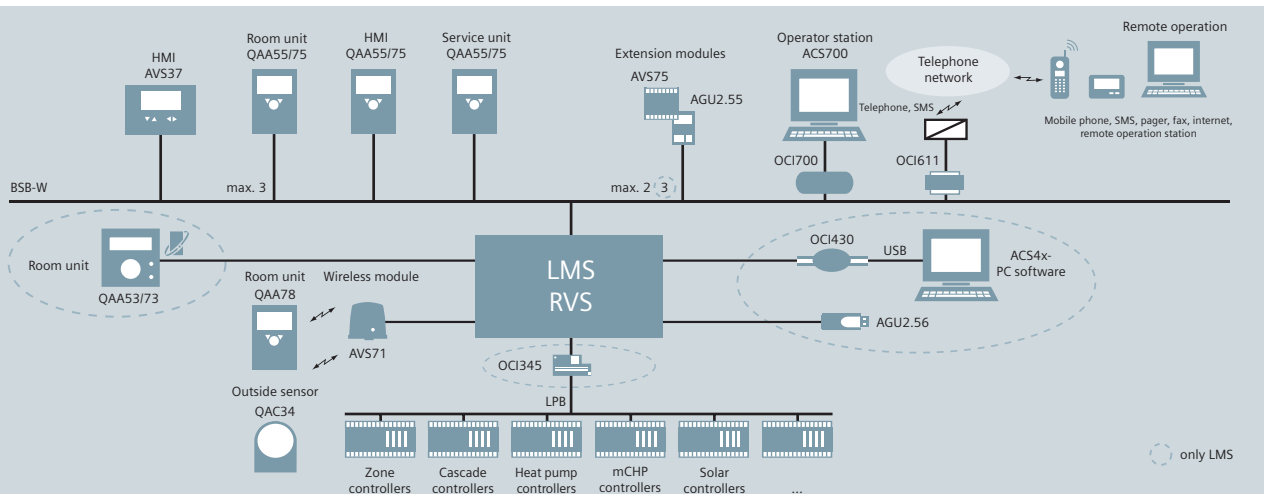
... for the suction side with quick connection: Siemens mixers offer a low noise level and an extensive modulation range

### ■ Electronic high-voltage ignition ...

... designed to facilitate mounting on Siemens gas valves – ready to mount, prefabricated with cable and plug.

## Highlights










- Gas valves for any type of application
- Temperature sensors for a host of applications
- Noise-optimized gas-air mixing system
- Wireless room units and outside sensors
- Room/operating units with clear-text display in several languages



# Innovative boiler management for unlimited

		Type of boiler	Fan / burner	Output modulation	Integrated electronic ignition	Sitherm Pro (combustion optim.)	Cascade	System compatibility	Heating circuits	DHW heating	Solar (integrated)	Bivalent	Cooling function	Buffer management	Swimming pool function	Multi-functional inputs and outputs	Extension modules AV575 / AGU2.55 / OCI345
Field of use																	Extension modules
Boiler Management Units		LMS1	P/O	 	 	1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	   LPB
		LMU7	P	 	 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		 						<input checked="" type="checkbox"/>	   LPB
		LMU84	P	 	 		1)	1)		 							 1)
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Controllers		RVS13 RVS53							 	 						<input checked="" type="checkbox"/>	
		RVS43					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	  
		RVS46.530						<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>				
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		RVS63		 				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	 	 		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Legend:

- P Premix
- A Atmospheric
- O Oil
-  Communication
-  DHW heating
-  Solar
-  Control output for modulating fan
-  1-stage burner
-  2-stage burner
-  Pump heating circuit
-  Pump heating circuit (modulating)
-  Mixing heating circuit

# choices

Operating units AV537.294 / AV537.390	Room units QAA73 OpenTherm	Room units, wire QAA55	Room units, wireless or wire QAA75/QAA78	Room units REA02 / REA22	Strap-on, threaded immersion, cable sensors QAR / QAD QAK / QAL / QAZ	Outside sensor, wireless or wire QAC	Service tool ACS4 / OCI4	Remote management, service tool ACS700 / OCI
Room and operating units					Temperature sensors		Communication	

■	■ <sup>1)</sup>	■	■	■	■	■	■	■
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Legend:

- 🔌 Input (programmable)
- 2) 2<sup>nd</sup> heating circuit with RV53.1
- ⚙️ Gas-air ratio control (pneumatic)
- 🔌 Output (programmable)
- 3) Integrated
- ⚙️ Electrically modulated magnetic coil
- 1) Optional
- 🔌 Stepper motor

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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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