

# Everything under control

## The EMS 2 control system



**BOSCH**  
Invented for life

# EMS 2 control system – by Bosch

Even the best heating system is only as good as its controller. This is an important reason why you should always choose a controller from Bosch for your Bosch heating system. The flexible, modular concept of the EMS 2 smart control system makes it ideal for use not only with gas systems, but also with heat pumps. It offers an extremely simple control concept and ideally fulfils the expectations and wishes of your customers.

## Supported systems



Condens 5000W (18/30/37kW)



GAZ6000W



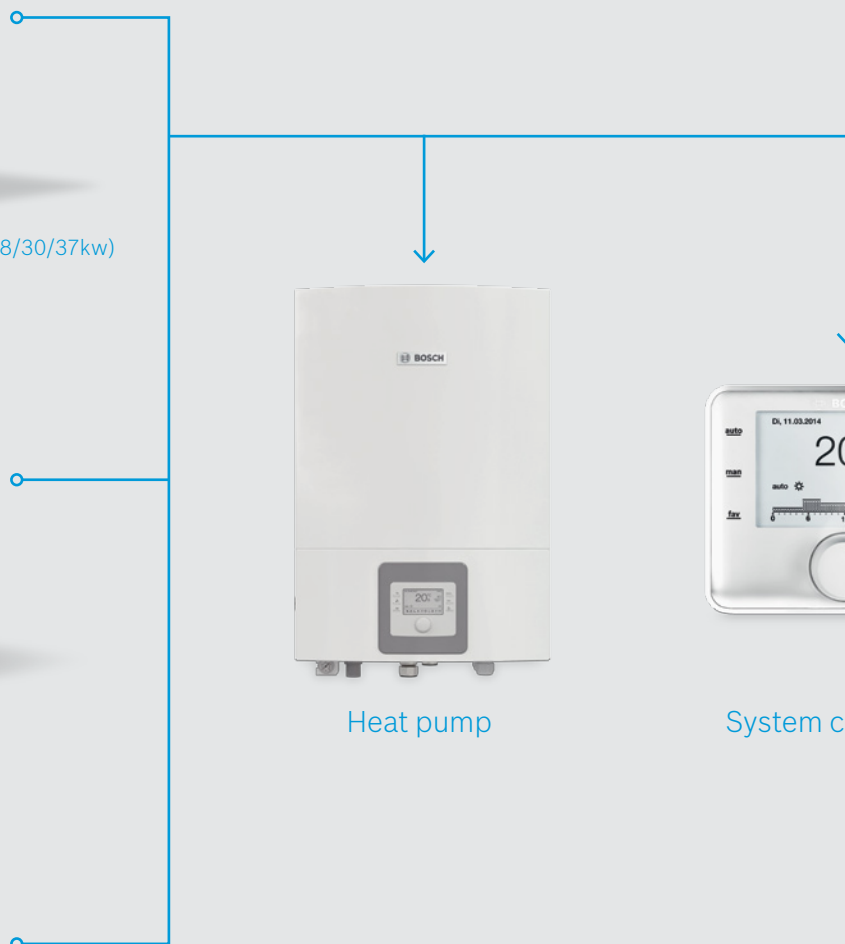
Condens 5000W (70-100kW)



Heat pump



System controller

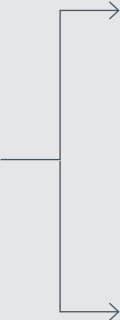










# EMS 2 System Controller

## For heating and warm water

### Predecessor

### EMS 2 System Controller

FR10			<p><b>CR 10</b></p> <p>Simple remote control for mixed and unmixed heating circuits</p> <ul style="list-style-type: none"> <li>▶ Room temperature setting in the current time phase</li> <li>▶ Error display</li> <li>▶ Only the size of a light switch, can be installed in a pattress box</li> </ul>
			<p><b>CR 10 H</b></p> <p>Simple remote control for heating and cooling circuits with an integrated humidity sensor – only for EMS 2-compatible heat pumps</p> <ul style="list-style-type: none"> <li>▶ Room temperature setting in the current time phase</li> <li>▶ Error display</li> <li>▶ Only the size of a light switch, can be installed in a pattress box</li> </ul>
FR120			<p><b>CR 50</b></p> <p>Simple room temperature control for unmixed heating circuit.</p> <ul style="list-style-type: none"> <li>▶ Intuitive control with an 'auto/man' control dial</li> <li>▶ Time program and back light</li> <li>▶ Open Therm compatible</li> </ul>
FW 120			<p><b>CW 400 COMFORT</b></p> <p>Outdoor-temperature-dependent system controller for gas and oil fired heating systems for up to four heating and two DHW charging circuits, for simple to complex heating systems</p> <ul style="list-style-type: none"> <li>▶ Simple control concept with large graphic display panel, touchscreen controls and clear text display</li> <li>▶ Individually configurable end-customer menu</li> <li>▶ Online-solutions for remote access with Bosch apps</li> </ul>
SEC 10			<p><b>HPC 400</b></p> <p>Integrated heat pump controller, up to four heating circuits and 1x DHW, for heating and cooling (optional)</p>



# EMS 2 modules

## Easy installation, efficient controlling

### EMS 2 System Controller

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### EMS 2 Mixer Circuit Module

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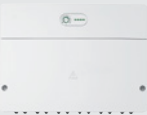
#### MM 100

Controller module for connection of a heating circuit behind a hydraulic separator or back-up storage tank, e.g. an underfloor heating circuit, continuous flow heating circuit (ventilation, pool) or a hot water charging circuit

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### Compatible modules

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#### EMS 2 Cascade Module MC 400

Control module for cascades of up to 16 heating appliances (5 x MC 400), coding switch for the selection of various cascading strategies

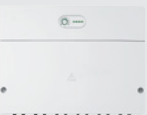
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#### EMS 2 Control Module MP 100

Controller module for a pool heating circuit in a heat pump system

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#### EMS 2 Zone Module MZ 100

For the control of the pumps and valves of up to three unmixed heating circuits or two unmixed heating circuits and one storage charging circuit; supports connection of an LLH temperature sensor



# Place your trust in the advantages of innovative controller technology

In combination with modern Bosch heat generation systems, the new EMS 2 controllers ensure not only outstanding system efficiency, but also impress with a logically laid-out control concept and ease of use. Take advantage of our advanced technology and offer your customers the benefits of the EMS 2 generation of controllers.

## The advantages for you...

- ▶ Simple control function, thanks to a single controller platform for gas and heat pump systems
- ▶ Quick and simple installation with standardised terminal designation for easy wiring
- ▶ Flexible function modules, can be mounted to fulfil specific requirements

## ... and the benefits for your customers

- ▶ Smart control algorithms for efficient operation, such as, for example, patented solar optimisation
- ▶ Intuitive control concept for temperature settings
- ▶ Easy-to-read backlit control panel
- ▶ Clear text display for reliable control input
- ▶ Separate favourites-menu for important functions makes input of settings easier for your customers



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