

How to connect two heaters to one controller

Both heaters must be controlled

If two heaters are to heat one process controlled by one controller, both should be switched and regulated together through the controller output. A typical solution is a suitable splitter or distribution strip connected after the controller output.

What should not be done?

Do not connect one heater permanently and directly to the mains and the other through the controller if both are to take part in the same regulation. In such a system the controller can reduce or switch off only part of the power, while the permanently connected heater continues heating. This can cause overheating and make it impossible to maintain the temperature.

Basic condition

The combined power of both heaters must not exceed the permitted power or current of the controller. The same rule applies to plugs, sockets, splitter, cables, protection devices and the entire supply installation. The splitter must be rated for this load and not be an arbitrary adapter with unknown parameters.