

MASTER 500 RS

Boiler temperature controller with feeder

Cat. no. 501201



CONTROLLER DESCRIPTION

The MASTER 500 RS controller is intended for controlling a boiler with automatic fuel feeding, a central heating pump and DHW pump for central heating systems.

THE CONTROLLER OFFERS THE FOLLOWING FUNCTIONS:

- maintaining the set boiler temperature by controlling airflow and feeder operations
- capacity for expansion with 3 additional DKMZ 1 modules controlling the circuit with a pump and 3- or 4-way valve working with room controllers
- stepless fan operations and power setting
- programmable boiler blow-through
- controlled damping time and automatic control switch off in case of lack of fuel
- central heating circulation pump control
- possibility of switching hot water priority on or off
- control over the DHW heater supply pump depending on the required temperature
- option to operate the boiler and DHW pump according to one of a number of weekly programmes installed in the Master 500 RS controller
- COMFORT SYSTEM function protecting the pump from scale build up
- protection device - mechanical, independent thermal protection TERMIK or liwuid STB
- boiler protection against freezing and overheating
- temperature sensor damage signalling
- possibility of connecting a DK LOGIC room thermostat

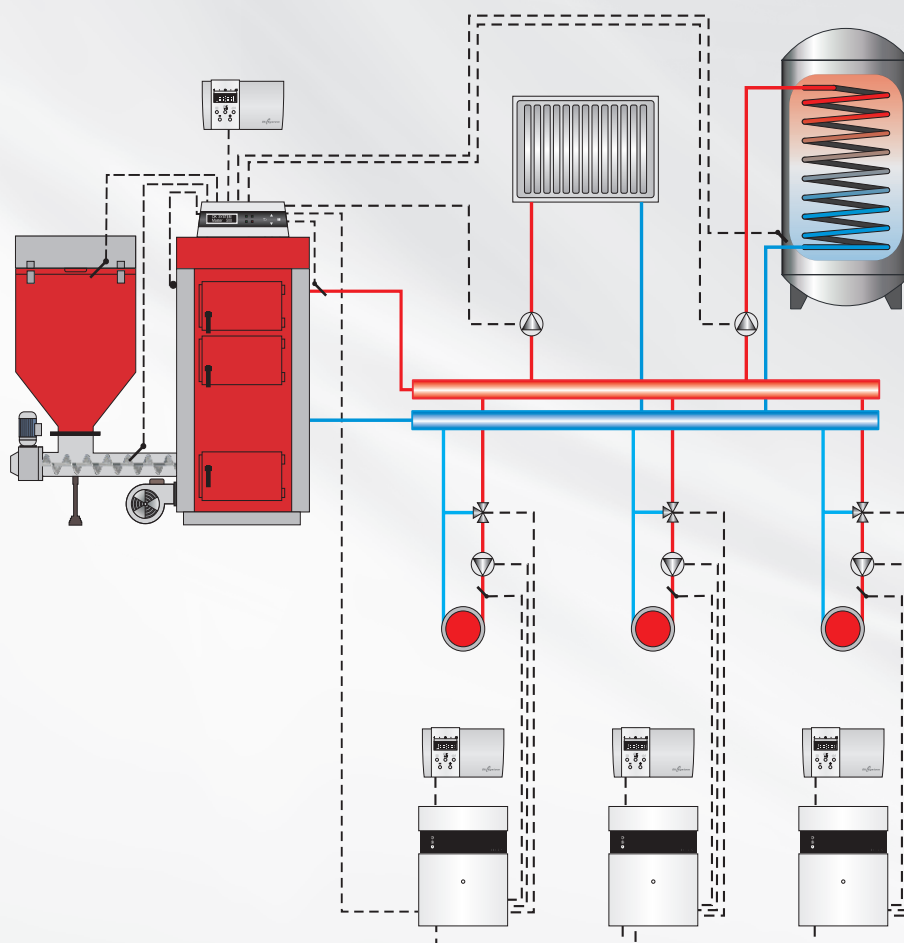


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TECHNICAL SPECIFICATIONS	MASTER 500 RS
Measured temperature range	from - 9 °C to + 120 °C
Boiler temperature setting range	from + 45 °C to + 85 °C
DHW heater temperature setting range	from + 40 °C to + 70 °C
Central heating pump temperature setting range	from + 30 °C to + 70 °C
Stepless fan startup	yes
Regulated maximum fan power	40 % - 100 %
Fan hysteresis (on - off difference)	from 1 °C to 9 °C
DHW pump hysteresis (on - off difference)	from 2 °C to 9 °C
Blowing control (possibility of completely switching off the fan blowing)	operation: 0 - 90 seconds break: 1 - 60 minutes
Controlled boiler shutdown time	0 - 45 minutes
Permissible load on outputs	fan: 100 W / 230 V feeder: 200 W / 230 V central heating pump: 100 W / 230 V DHW pump: 100 W / 230 V
Nominal supply voltage	~ 230 V, 50 Hz
Electrical protection	2 x 5 A
Relative humidity	< 95 %
Enclosure protection rating	IP 20
Ambient temperature	from 0 °C to + 40 °C

EXAMPLE INSTALLATION DIAGRAM WITH 3 EXTENSION MODULES



Example installation diagram with three connected extension modules DKMZ 1 Circuit 3 , Circuit 4 and Circuit 5 .