

**HEATING CONTROLLERS****PROMATIC® WXD10B, WXD10, WXD20****INTRODUCTION**

Weather compensated heating controllers WXD are modern and powerful controllers for room heating, domestic hot water warming, heat sources and solar systems. In WXD controllers a large selection of hydraulic schemes is built-in. Selected scheme and other system informations are shown on illuminated graphic LCD display.

Simple handling of the controller is based on user interface with graphical icons. With added »Help« key you can access user help and instructions, anytime you need it. By the first start of the controller a setup wizard is activated, which guides user through the initial setup steps by step.

WXD controllers feature many control, protective and advance functions such as:

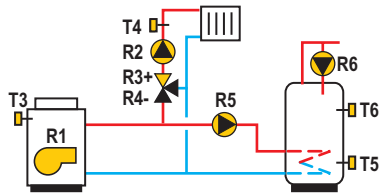
- graphic menus and multilingual support,
- selection between 52 different hydraulic schemes, including schemes with two mixing circuits or two heat sources, solar system etc.,
- heating or cooling operation mode,
- all controller settings are permanently stored, user settings can be saved to a user file and later opened from it,
- each change of controller setting, maximum temperature overrun or system malfunction is written to a log,
- all measured temperatures are periodically stored, data can be anytime overviewed on display,
- especially interesting function that enables simulation of measured temperatures for testing the controller operation in any conditions,
- PC connection.

**FEATURES**

	WXD10B	WXD10	WXD20
Number of relays (Relay/Triac)	6	6/1	7/1
Number of temperature sensors	6	6	6
Number of hydraulic schemes	7	46	52
Number of heating circuits of which mixing circuits of which direct circuits	1 max. 1 max. 1	2 max. 1 max. 1	2 max. 2 max. 1
Number of connected DD2+ units	2	2	2
Program timer	yes	yes	yes
Switching between two boilers	no	no	yes
Room heating with heat pump	yes	yes	yes
D. h. w. warming with heat pump	yes	yes	yes
D. h. w. warming with sun collectors	no	yes	yes
BUS	yes	yes	yes
Illuminated LCD display	yes	yes	yes
User functions Party, ECO, Holiday and instant d. h. w. warming	yes	yes	yes
Boost function for room heating	yes	yes	yes
Periodic pumps and valves start in inactive season	yes	yes	yes
Overheating protection for boiler, collectors and storage tank	yes	yes	yes
Option for remote control with telephone	yes	yes	yes
Antilegionella protection	yes	yes	yes
Frost protection	yes	yes	yes
Function for floor drying	yes	yes	yes
Overview of temperatures for current day	yes	yes	yes
Overview of temp. for more past days	yes	yes	yes
Error and high temperature warning	yes	yes	yes
Simulation of system operation	yes	yes	yes
Free programming of outputs R0 and R9 (Circulation, * differential thermostat, bypass-pump, supply pump, electric heater, heat pump as an additional energy source).	yes	yes	yes
Logging the changes of settings	yes	yes	yes
Possibility of connection with PC	yes	yes	yes

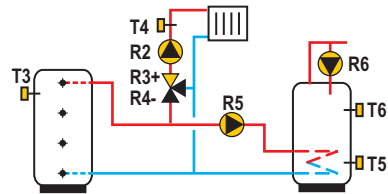
### APPLICATION

T2 401



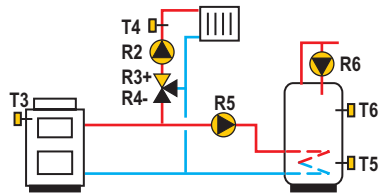
**WXD10B** Oil boiler, mixing circuit, d. h. w. storage tank.

T2 401b



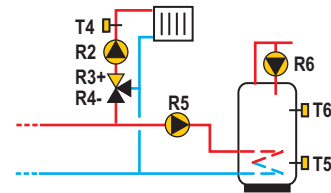
**WXD10B** Heat accumulator, mixing circuit, d. h. w. storage tank.

T2 401c



**WXD10B** Wood boiler, mixing circuit, d. h. w. storage tank.

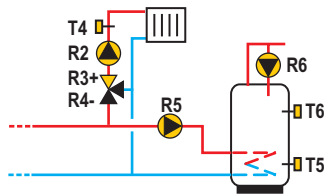
T2 401d



**WXD10B** System without boiler - mixing circuit, d. h. w. storage tank.

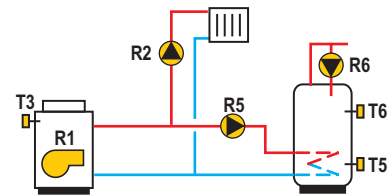


401e



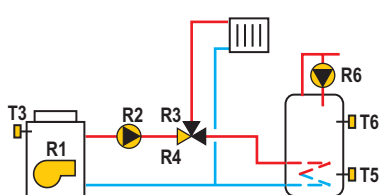
**WXD10B** System expand - mixing circuit, d. h. w. storage tank.

T2 402



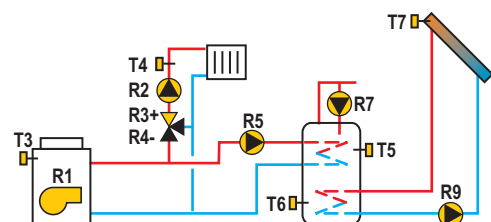
**WXD10B** Oil boiler, direct circuit, d. h. w. storage tank.

T2 403



**WXD10B** Oil boiler, direct circuit, d. h. w. storage tank.

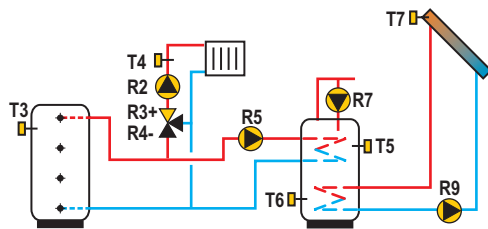
T2 404



**WXD10** Oil boiler, mixing circuit, d. h. w. storage tank, solar collectors.

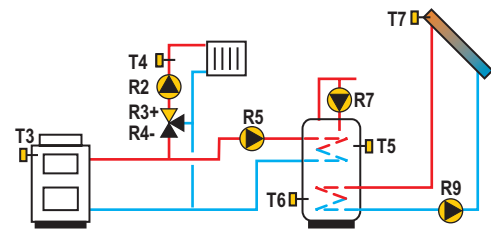
### APPLICATION

T2 404b



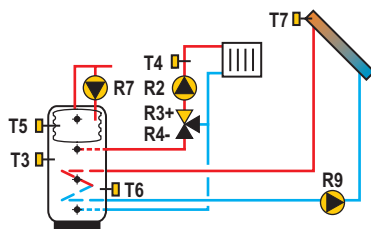
**WXD10** Heat accumulator, mixing circuit, d. h. w. storage tank, solar collectors.

T2 404c



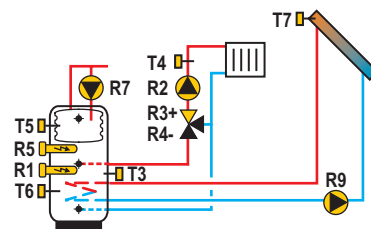
**WXD10** Wood boiler, mixing circuit, d. h. w. storage tank, solar collectors.

T2 404d



**WXD10** Heat accumulator with built-in storage tank, mixing circuit, solar collectors.

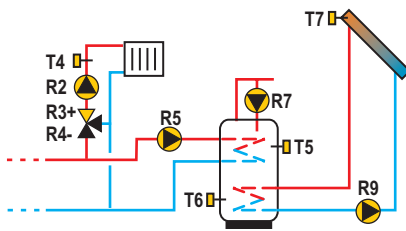
T2 404e



**WXD10** Heat accumulator with built-in storage tank, mixing circuit, auxiliary heating with electricity, solar collectors.

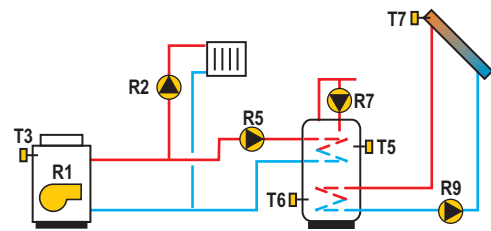


404f



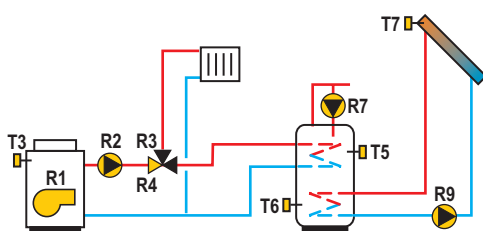
**WXD10** System expand - mixing circuit, d. h. w. storage tank, solar collectors.

T2 405



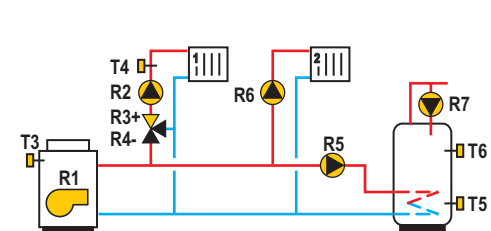
**WXD10** Oil boiler, direct circuit, d. h. w. storage tank, solar collectors.

T2 406



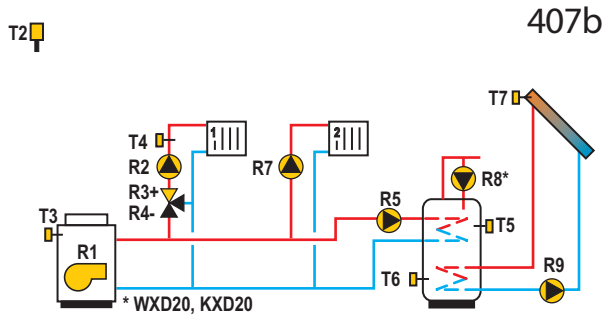
**WXD10** Oil boiler, direct circuit, d. h. w. storage tank, solar collectors.

T2 407

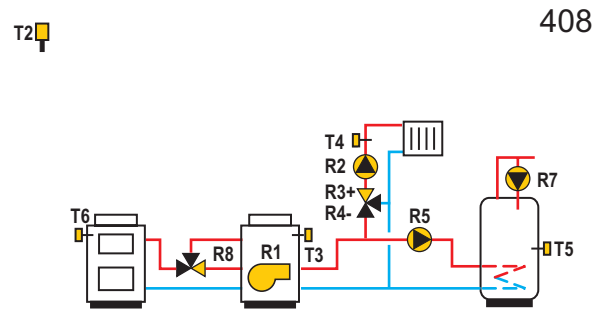


**WXD10** Oil boiler, direct circuit, mixing circuit, d. h. w. storage tank, solar collectors

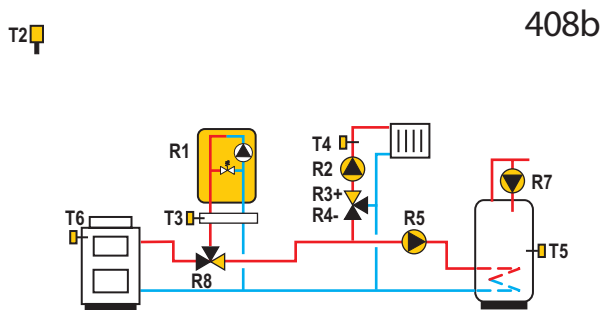
### APPLICATION



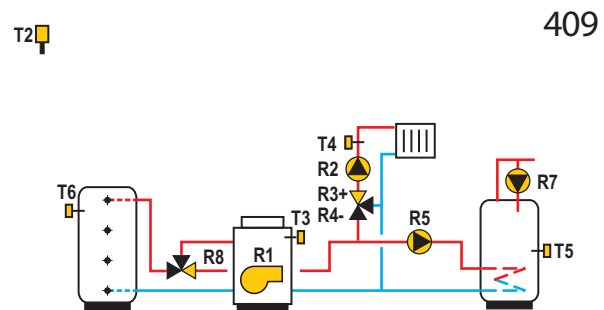
**WXD10** Oil boiler, mixing and direct circuit, d. h. w. storage tank, solar collectors.



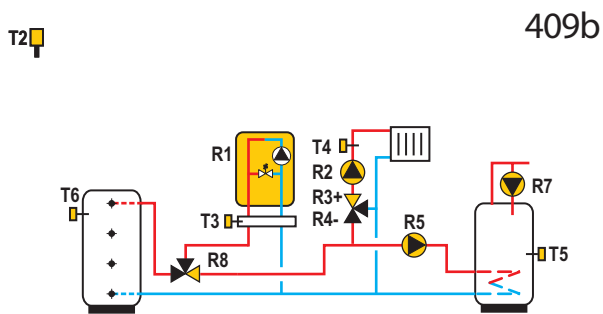
**WXD20** Wood boiler, oil boiler, mixing circuit, d. h. w. storage tank.



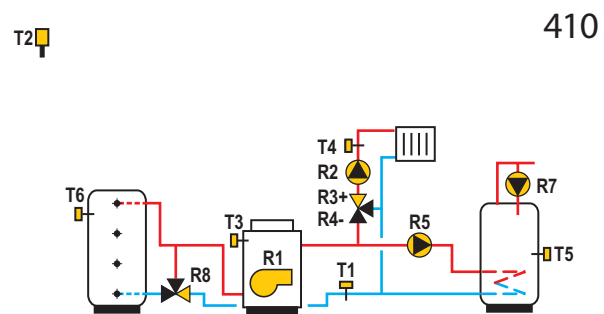
**WXD20** Wood boiler, gas boiler, mixing circuit, d. h. w. storage tank.



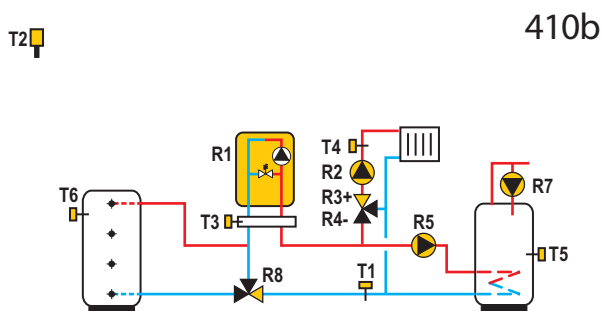
**WXD20** Heat accumulator, oil boiler, mixing circuit, d. h. w. storage tank.



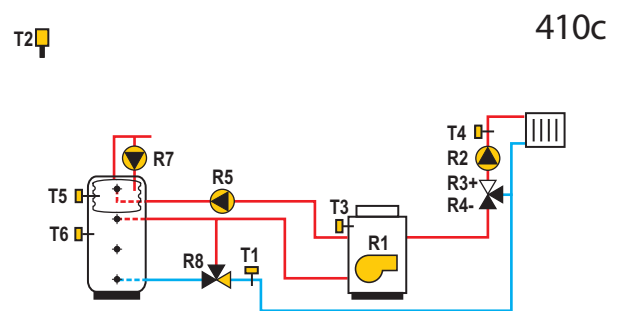
**WXD20** Heat accumulator, gas boiler, mixing circuit, d. h. w. storage tank.



**WXD20** Heat accumulator, oil boiler, mixing circuit, d. h. w. storage tank.



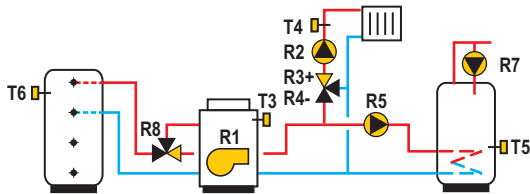
**WXD20** Heat accumulator, gas boiler, mixing circuit, d. h. w. storage tank.



**WXD20** Heat accumulator with built-in d. h. w. storage tank, oil boiler, mixing circuit.

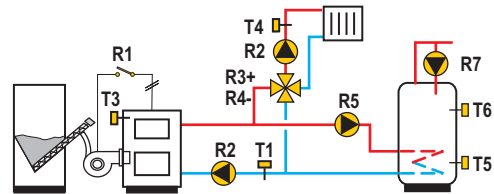
### APPLICATION

T2 411



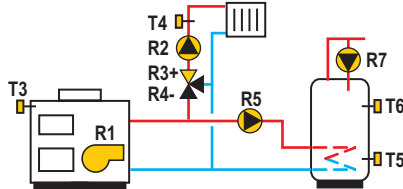
**WXD20** Heat accumulator, oil boiler, mixing circuit, d. h. w. storage tank.

T2 412



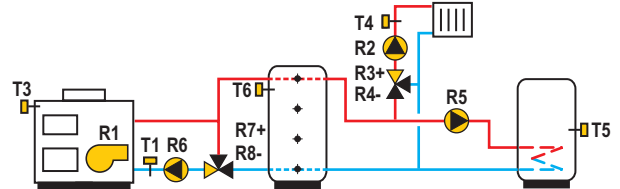
**WXD20** Pellet boiler, mixing circuit, d. h. w. storage tank.

T2 413



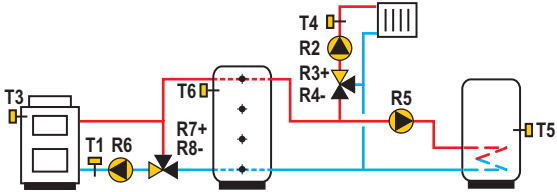
**WXD20** Combined (wood/oil) boiler, mixing circuit, d. h. w. storage tank.

T2 414



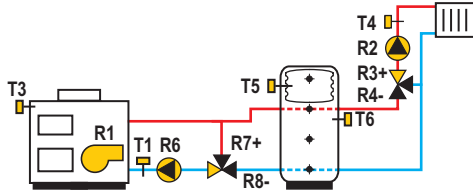
**WXD20** Combined (wood/oil) boiler, heat accumulator, mixing circuit, d. h. w. storage tank.

T2 414b



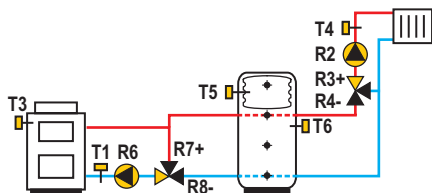
**WXD20** Wood boiler, heat accumulator, mixing circuit, d. h. w. storage tank.

T2 415



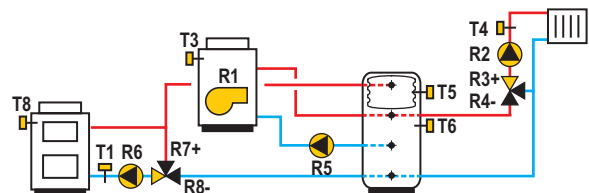
**WXD20** Combined (wood/oil), heat accumulator with built-in d. h. w. storage tank, mixing circuit.

T2 415b



**WXD20** Wood boiler, heat accumulator with built-in d. h. w. storage tank, mixing circuit.

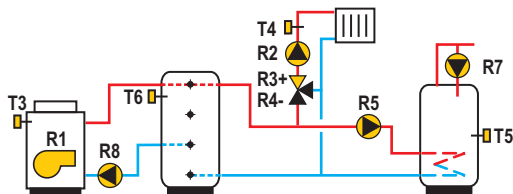
T2 415c



**WXD20** Wood boiler, oil boiler, heat accumulator, mixing circuit, d. h. w. storage tank.

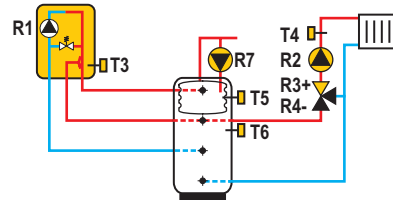
### APPLICATION

T2 416



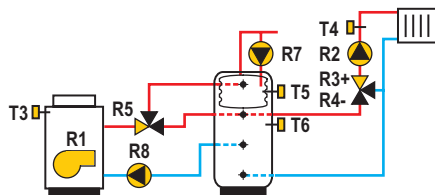
**WXD20** Oil boiler, heat accumulator, mixing circuit, d. h. w. storage tank.

T2 416b



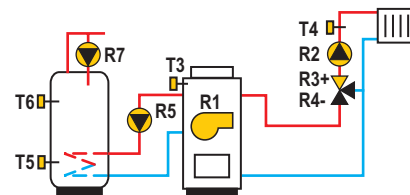
**WXD20** Gas boiler, heat accumulator with built-in d. h. w. storage tank, mixing circuit.

T2 416c



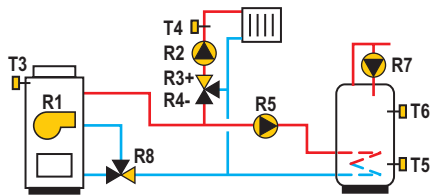
**WXD20** Oil boiler, heat accumulator with built-in d. h. w. storage tank, mixing circuit.

T2 417



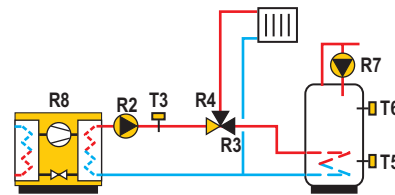
**WXD20** Combined (wood/oil) boiler, d. h. w. storage tank, mixing circuit.

T2 418



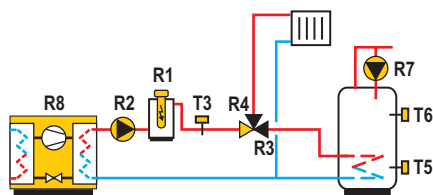
**WXD20** Combined (wood/oil) boiler, mixing circuit, d. h. w. storage tank.

T2 419



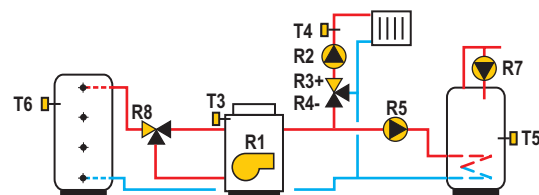
**WXD20** Heat pump, direct circuit, d. h. w. storage tank.

T2 420



**WXD20** Heat pump, heating support with electricity, direct circuit, d. h. w. storage tank.

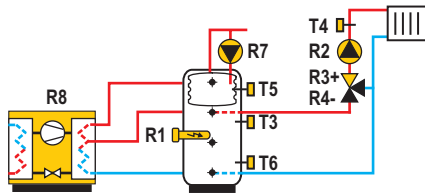
T2 421



**WXD20** Oil boiler, heat accumulator, mixing circuit, d. h. w. storage tank.

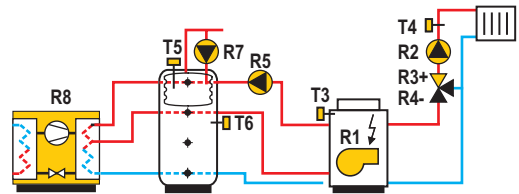
### APPLICATION

T2 422



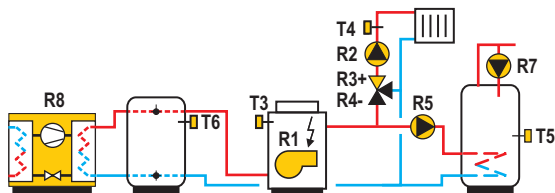
**WXD20** Heat pump, direct circuit, d. h. w. storage tank

T2 422b



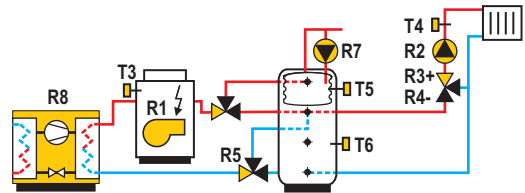
**WXD20** Heat pump, direct circuit, d. h. w. storage tank, solar collectors.

T2 422c



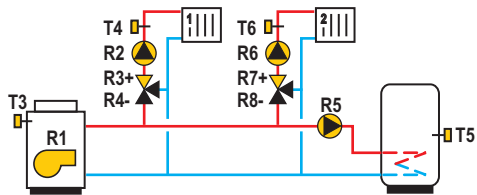
**WXD20** Heat pump, heating support with electricity, direct circuit, d. h. w. storage tank.

T2 422d



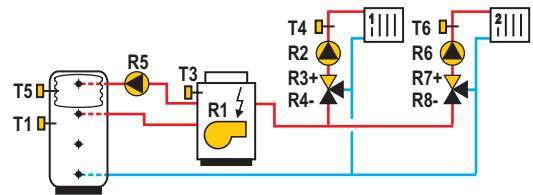
**WXD20** Heat pump, combined (oil/electricity) boiler, heat accumulator with built-in d. h. w. storage tank, mixing circuit.

T2 423



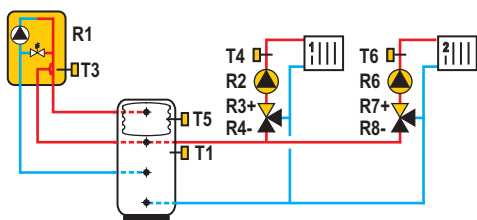
**WXD20** Oil boiler, 2x mixing circuit, d. h. w. storage tank.

T2 423b



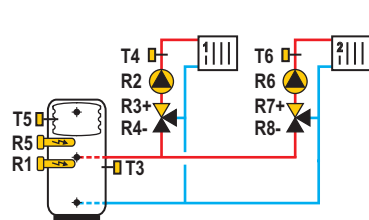
**WXD20** Combined (oil/electricity) boiler, heat accumulator with built-in d. h. w. storage tank, 2x mixing circuit.

T2 423c



**WXD20** Gas boiler, heat accumulator with built-in d. h. w. storage tank, 2x mixing circuit.

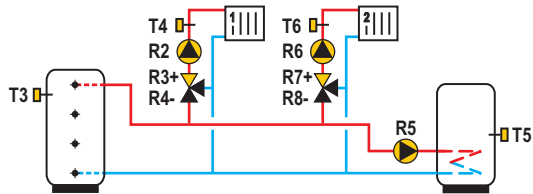
T2 423d



**WXD20** heat accumulator with built-in d. h. w. storage tank, auxiliary heating with electricity, 2x mixing circuit.

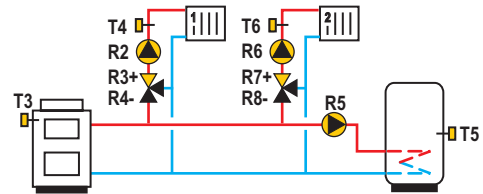
### APPLICATION

T2 423e



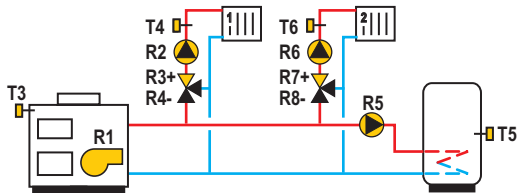
**WXD20** Heat accumulator, 2x mixing circuit, d. h. w. storage tank.

T2 423f



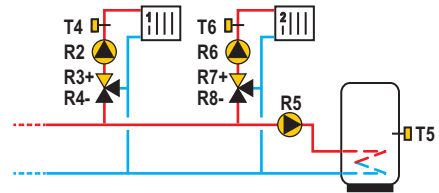
**WXD20** Wood boiler, 2x mixing circuit, d. h. w. storage tank.

T2 423g



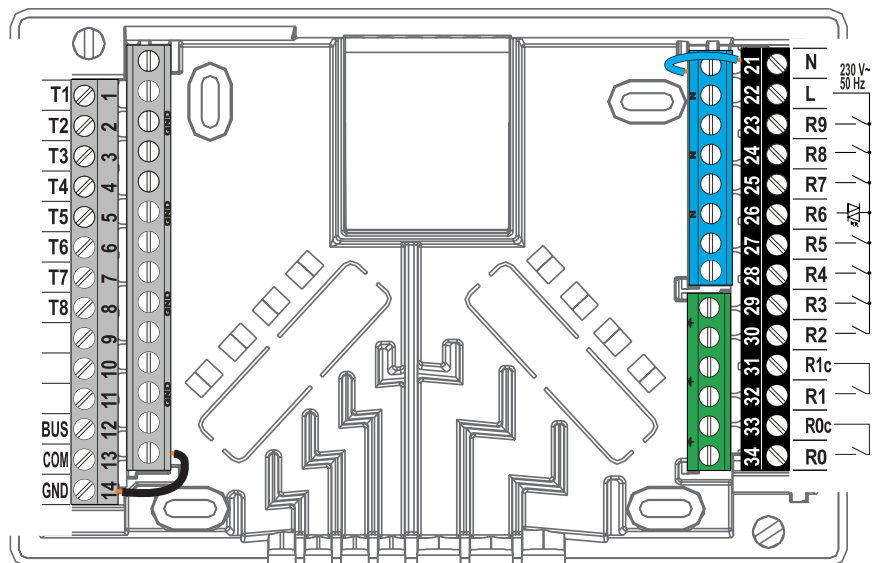
**WXD20** Combined (wood/oil) boiler, 2x mixing circuit, d. h. w. storage tank.

+ BUS 423h



**WXD20** System expand, 2x mixing circuit, d. h. w. storage tank.








### CONNECTION TERMINALS





**SENSORS, ROOM UNITS, ACTUATORS**

For WXD controllers are available following sensors and room units:

	<b>Outdoor sensor AF</b> For measurement of outdoor temperature.
	<b>Surface sensor VF</b> For measurement of stand-pipe or return-pipe temperature.
	<b>Immersion sensor TF</b> For measuring temperature of boiler, solar collectors, heat accumulator or domestic hot water storage tank.
	<b>Immersion sensor CF</b> For measurement of exhaust gases in all kinds of boilers.
	<b>Room sensor PS10</b> For measurement of room temperature.
	<b>Room unit DD2+</b> Room control unit with day and night temperature setting operation mode selector and LCD display to overview status of heating system.
	<b>Actuator AVC</b> For control of mixing valve.

**ORDERING CODES****Heating controllers WXD**

2WXD10B00000-510	Heating controller PROMATIC WXD10B
2WXD1000000-510	Heating controller PROMATIC WXD10
2WXD2000000-510	Heating controller PROMATIC WXD20

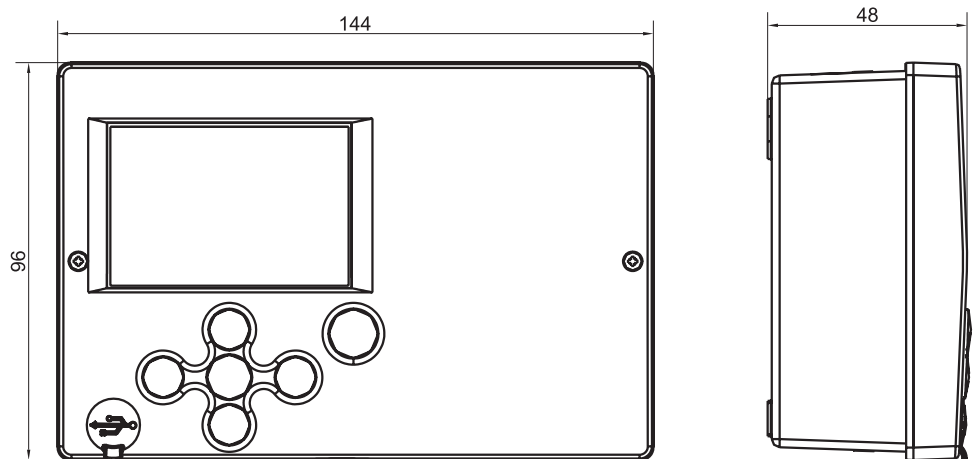
**Heating controller WXD with sensors**

2WXD10B21100-510	Heating controller PROMATIC WXD10B with sensors 2 x TF/Pt, 1 x AF/Pt, 1 x VF/Pt
2WXD1041100-510	Heating controller PROMATIC WXD10 with sensors 4 x TF/Pt, 1 x AF/Pt, 1 x VF/Pt
2WXD2041100-510	Heating controller PROMATIC WXD20 with sensors 4 x TF/Pt, 1 x AF/Pt, 1 x VF/Pt

### TECHNICAL DATA

General technical data	
Rated operating voltage	230 V ~ , 50 Hz
Power consumption	5 VA
Power consumption in standby	max. 0,5 W
Relay output	4 (1) A ~ , 230 V ~
Triac output	1 (1) A ~ , 230 V ~
Safety Class	IP20 according to EN 60529
Degree of protection	I according to EN 60730-1
Temperature control class	III (without room temp. sensor) VII (with room temp. sensor)
Controller housing	PCASA - thermoplastics
Dimensions	144 x 96 x 48 mm
Weight	425 g
Permissible ambient temperature	5 °C ... +40 °C
Storage temperature	20 °C ... +65 °C

### DIMENSIONS



### NOTES

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# HEATING CONTROLLERS

## PROMATIC<sup>®</sup> WXD10B, WXD10, WXD20



### NOTIZEN

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Data sheet

# HEATING CONTROLLERS

## PROMATIC<sup>®</sup> WXD10B, WXD10, WXD20



### NOTES

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