

HEATING CONTROLLERS**PROMATIC® WDC10B, WDC10, WDC20****INTRODUCTION**

Weather compensated heating controllers WDC are modern and powerful controllers for room heating, domestic water warming, heat sources and solar systems.

In WDC 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 us through the initial setup in steps.

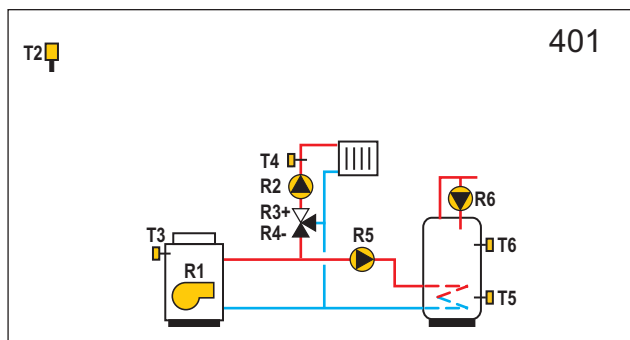
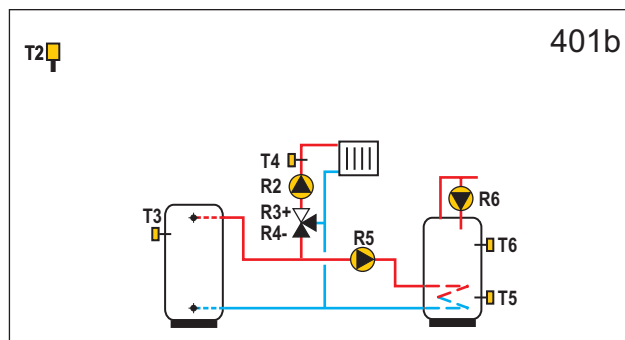
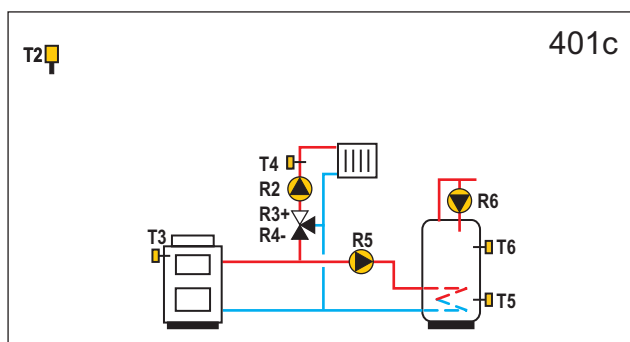
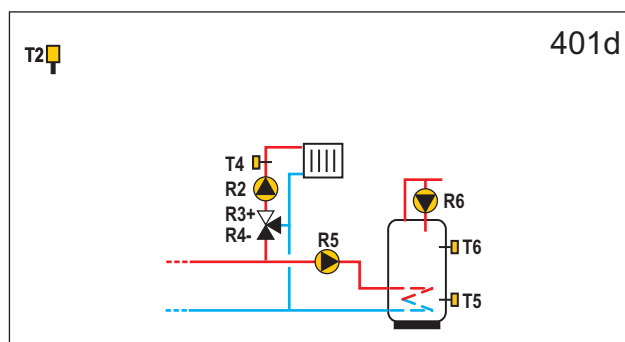
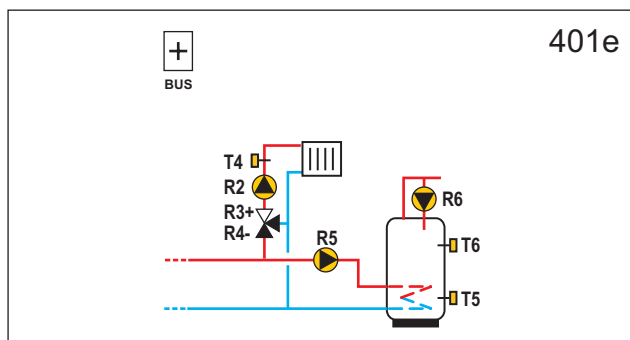
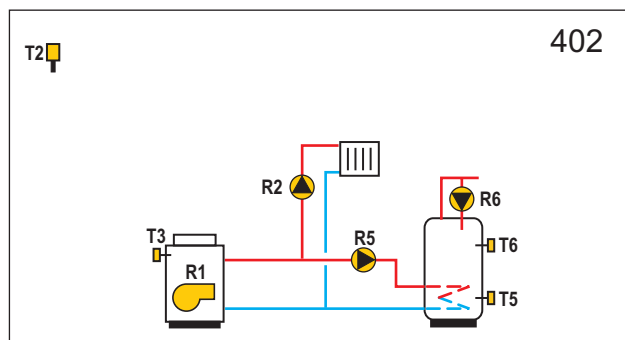
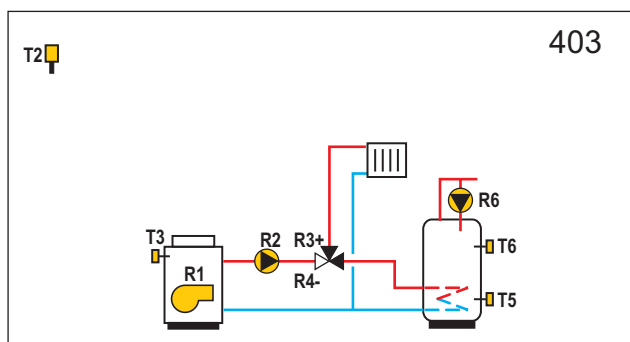
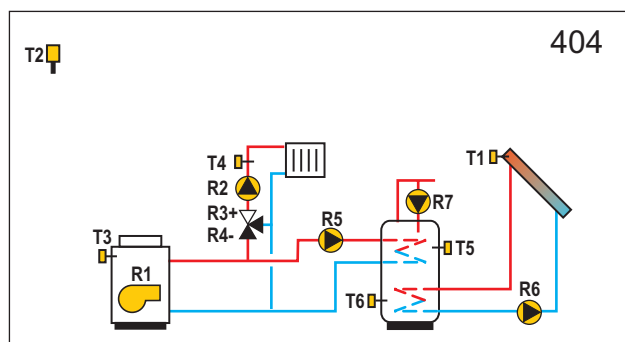
WDC controllers feature many control, protective and advance functions such as:

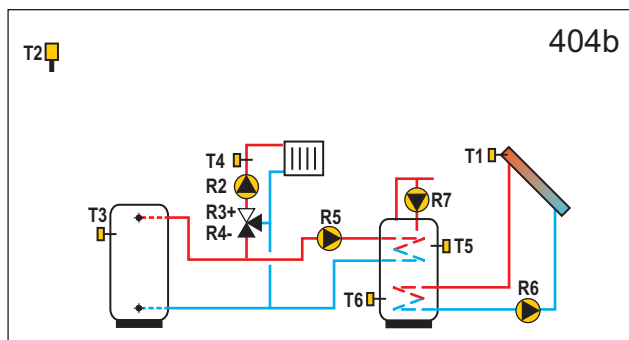
- graphic menus and multilingual support,
- selection between 52 different hydraulic schemes, including schemes with two mixing circuits or two heat sources, solar system etc.,
- heating or cooling operation mode,
- all controller settings are permanently stored, user settings can be saved to a user 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.

FEATURES

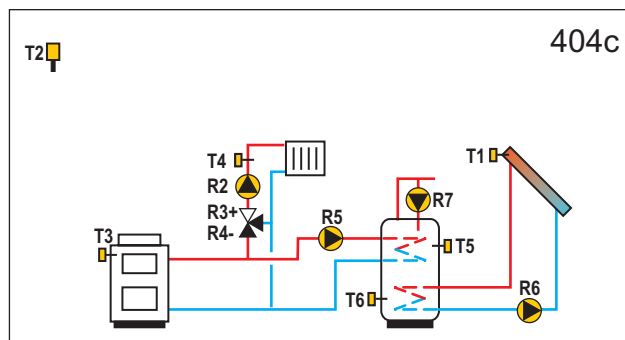
	WDC10B	WDC10	WDC20
Number of relays (Relay/Triac)	6	6/1	7/1
Number of temperature sensors	6	6	6
Number of hydraulic schemes	7	17	52
Number of heating circuits	1	2	2
Mixing circuit	1*	1	1 or 2
Direct circuit	1*	1	0 or 1
Number of connected DD2+ units	2	2	2
Program timer	yes	yes	yes
Switching between two boilers	no	yes	yes
Room heating with heat pump	no	no	yes
D. h. w. warming with heat pump	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
Logging the changes of settings	yes	yes	yes

* mixing and direct heating circuit are available

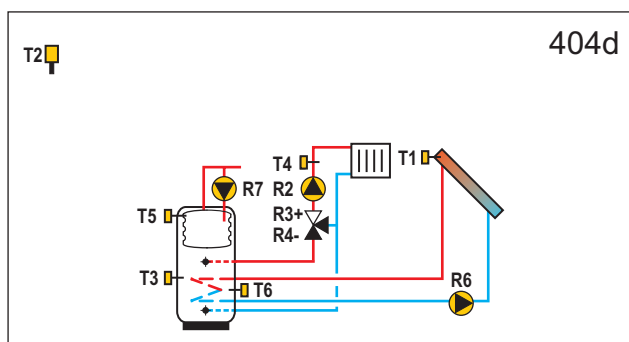
APPLICATION**WDC10B** Oil boiler, mixing circuit, d. h. w. storage tank.**WDC10B** Heat accumulator, mixing circuit, d. h. w. storage tank.**WDC10B** Wood boiler, mixing circuit, d. h. w. storage tank.**WDC10B** System without boiler - mixing circuit, d. h. w. storage tank.**WDC10B** System expand - mixing circuit, d. h. w. storage tank.**WDC10B** Oil boiler, direct circuit, d. h. w. storage tank.**WDC10B** Oil boiler, direct circuit, d. h. w. storage tank.**WDC10** Oil boiler, mixing circuit, d. h. w. storage tank, solar collectors.

APPLICATION

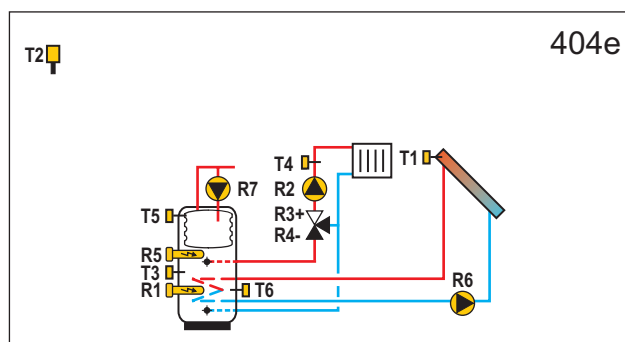
WDC10 Heat accumulator, mixing circuit, d. h. w. storage tank, solar collectors.



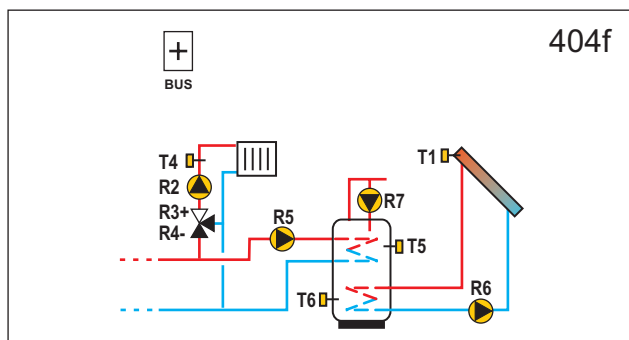
WDC10 Wood boiler, mixing circuit, d. h. w. storage tank, solar collectors.



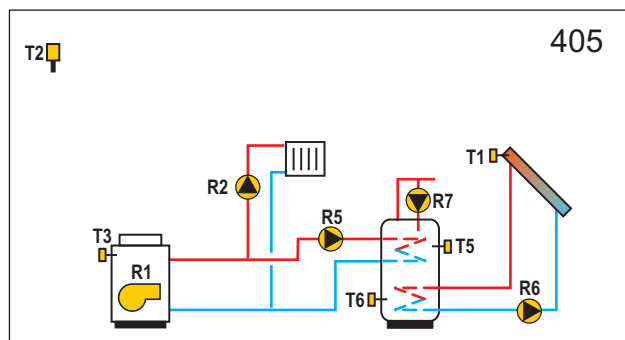
WDC10 Heat accumulator with built-in storage tank, mixing circuit, solar collectors.



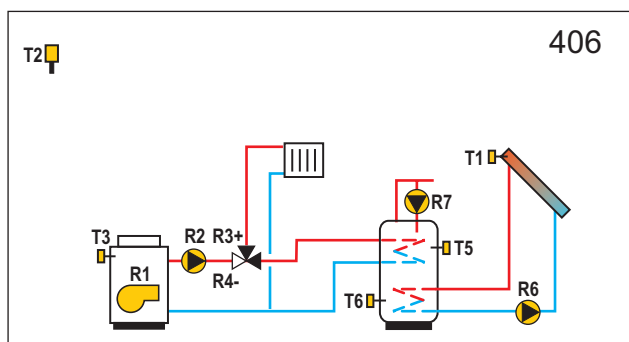
WDC10 Heat accumulator with built-in storage tank, mixing circuit, auxiliary heating with electricity, solar collectors.



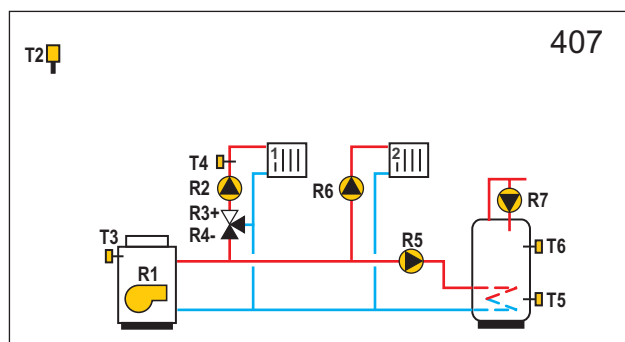
WDC10 System expand - mixing circuit, d. h. w. storage tank, solar collectors.



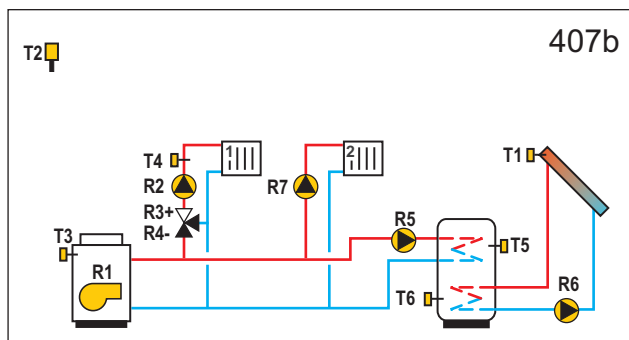
WDC10 Oil boiler, direct circuit, d. h. w. storage tank, solar collectors.



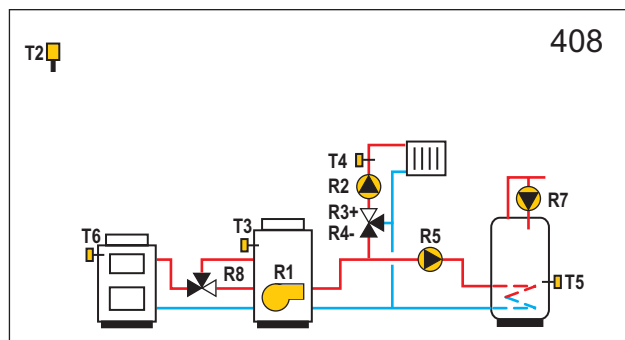
WDC10 Oil boiler, direct circuit, d. h. w. storage tank, solar collectors.



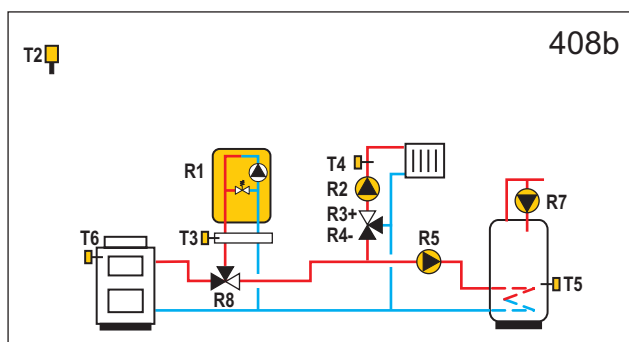
WDC10 Oil boiler, direct circuit, mixing circuit, d. h. w. storage tank, solar collectors

APPLICATION

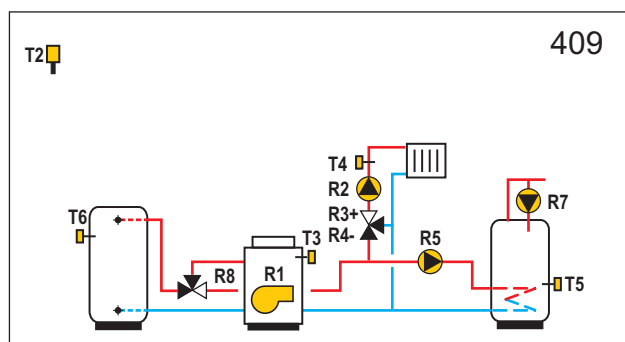
WDC10 Oil boiler, mixing and direct circuit,
d. h. w. storage tank, solar collectors.



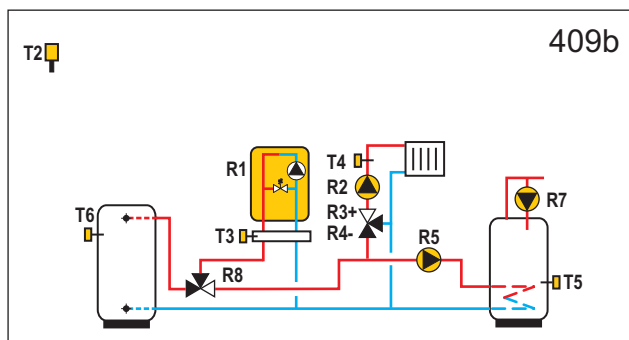
WDC20 Wood boiler, oil boiler, mixing circuit,
d. h. w. storage tank.



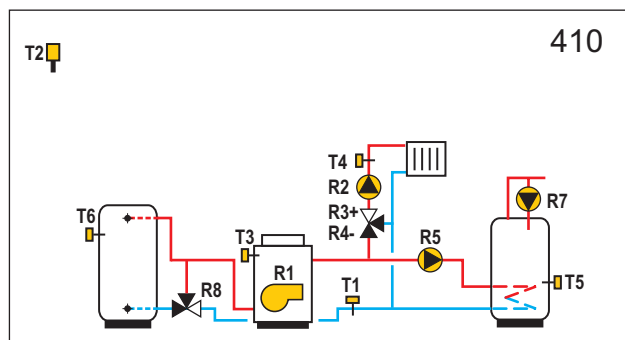
WDC20 Wood boiler, gas boiler, mixing circuit,
d. h. w. storage tank.



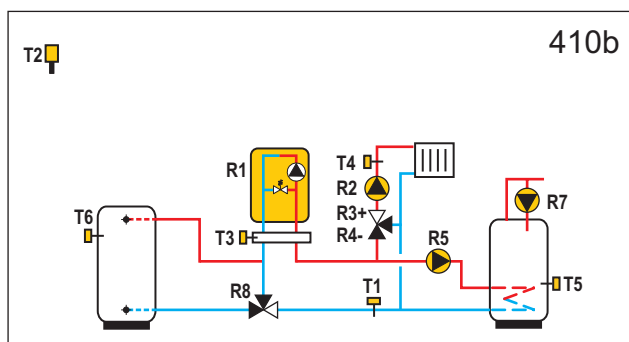
WDC20 Heat accumulator, oil boiler, mixing circuit,
d. h. w. storage tank.



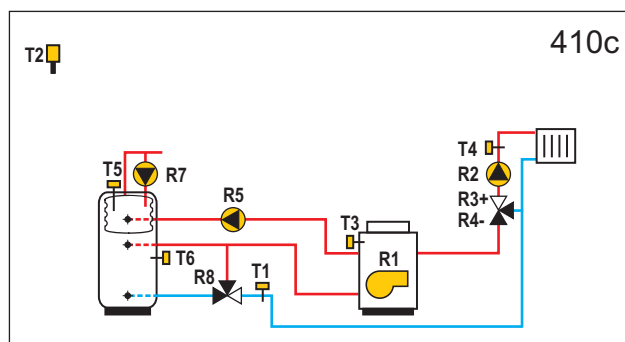
WDC20 Heat accumulator, gas boiler, mixing circuit,
d. h. w. storage tank.



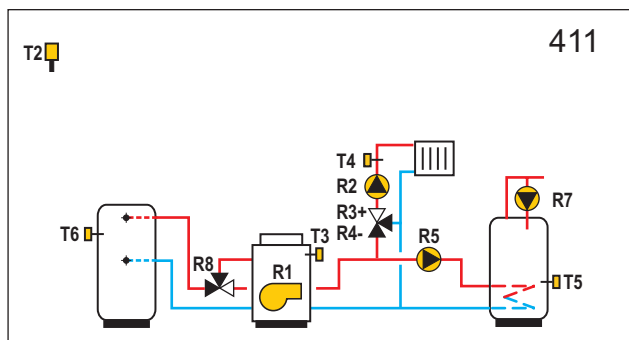
WDC20 Heat accumulator, oil boiler, mixing circuit,
d. h. w. storage tank.



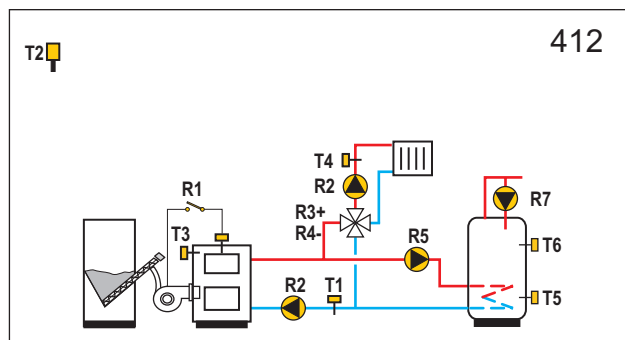
WDC20 Heat accumulator, gas boiler, mixing circuit,
d. h. w. storage tank.



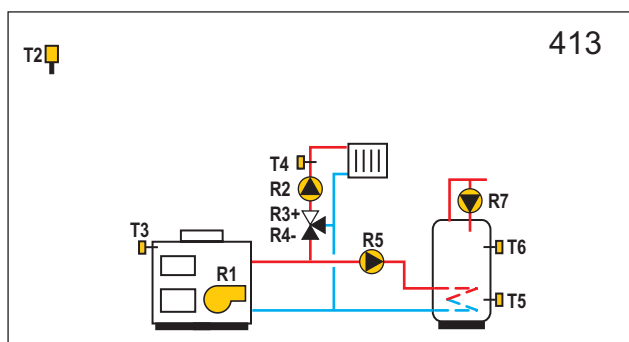
WDC20 Heat accumulator with built-in d. h. w. storage
tank, oil boiler, mixing circuit.

APPLICATION

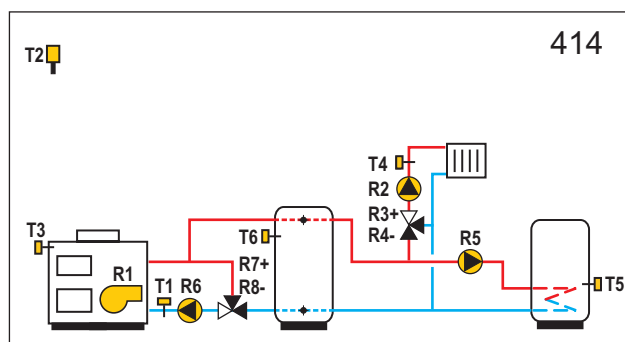
WDC20 Heat accumulator, oil boiler, mixing circuit, d. h. w. storage tank.



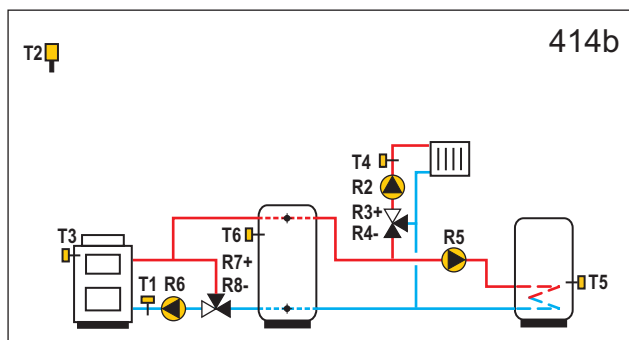
WDC20 Pellet boiler, mixing circuit, d. h. w. storage tank.



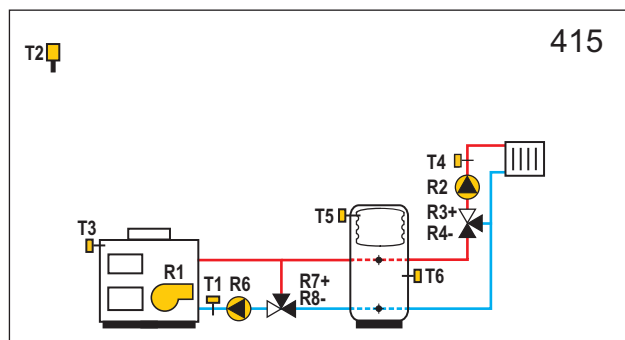
WDC20 Combined (wood/oil) boiler, mixing circuit, d. h. w. storage tank.



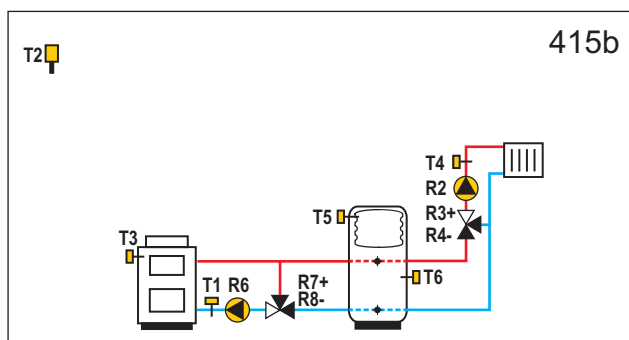
WDC20 Combined (wood/oil) boiler, heat accumulator, mixing circuit, d. h. w. storage tank.



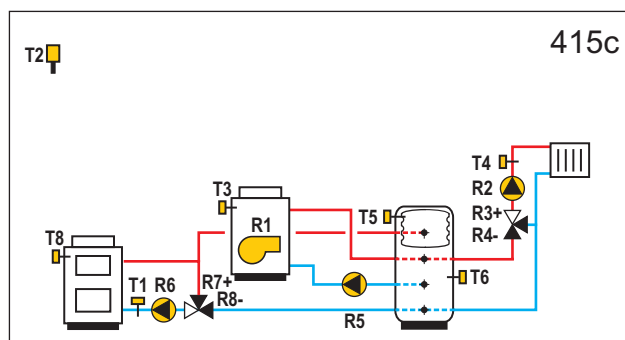
WDC20 Wood boiler, heat accumulator, mixing circuit, d. h. w. storage tank.



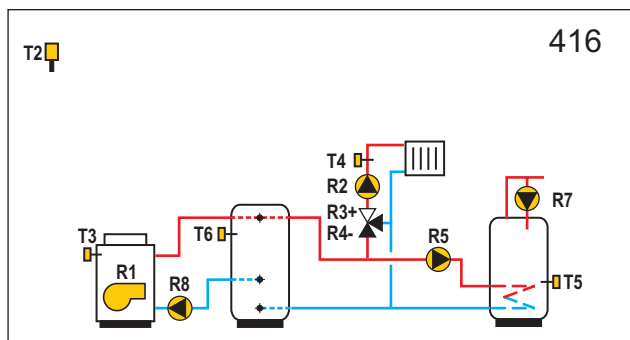
WDC20 Combined (wood/oil), heat accumulator with built-in d. h. w. storage tank, mixing circuit.



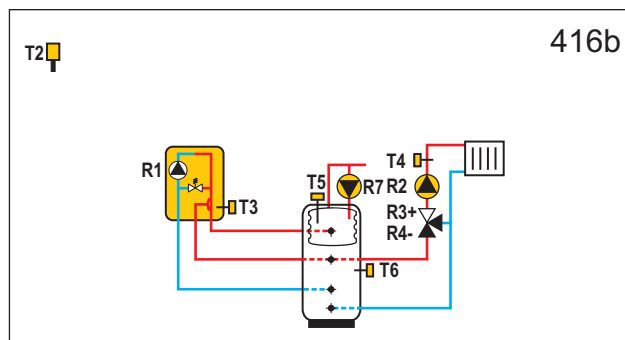
WDC20 Wood boiler, heat accumulator with built-in d. h. w. storage tank, mixing circuit.



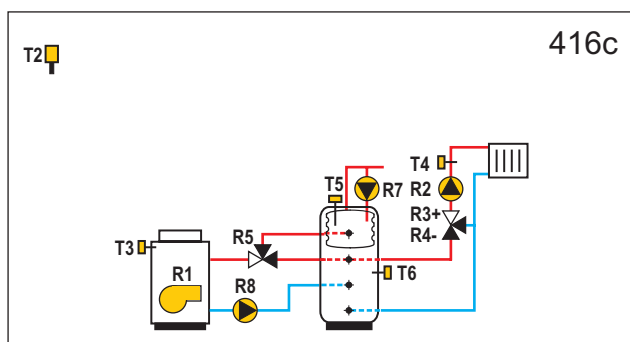
WDC20 Wood boiler, oil boiler, heat accumulator, mixing circuit, d. h. w. storage tank.

APPLICATION

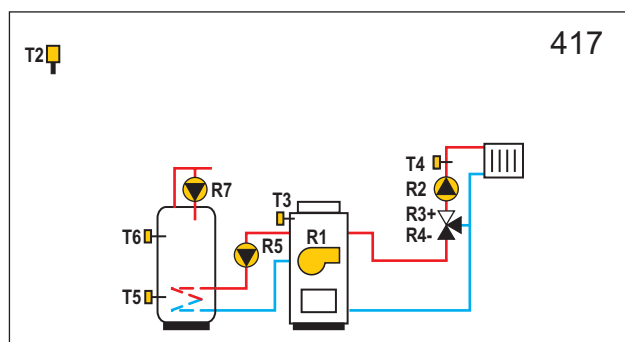
WDC20 Oil boiler, heat accumulator, mixing circuit, d. h. w. storage tank.



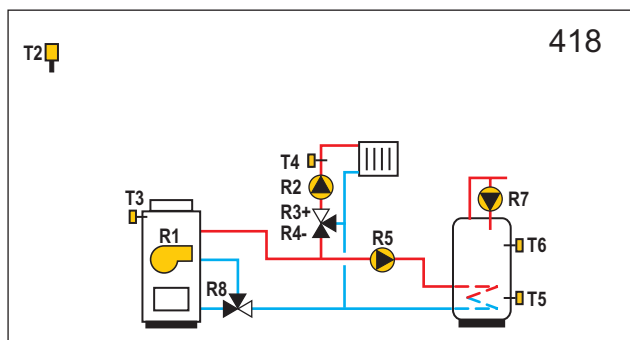
WDC20 Gas boiler, heat accumulator with built-in d. h. w. storage tank, mixing circuit.



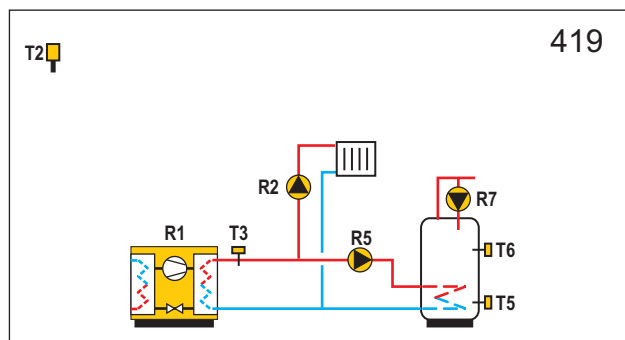
WDC20 Oil boiler, heat accumulator with built-in d. h. w. storage tank, mixing circuit.



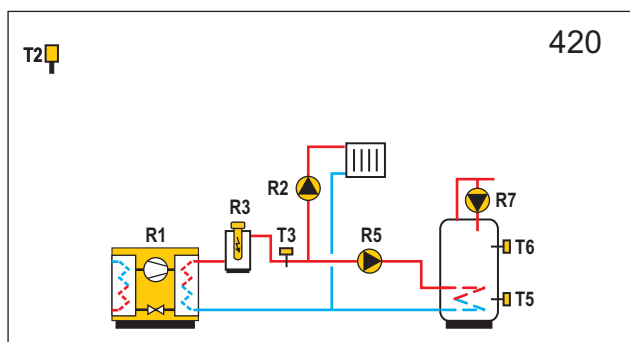
WDC20 Combined (wood/oil) boiler, d. h. w. storage tank, mixing circuit.



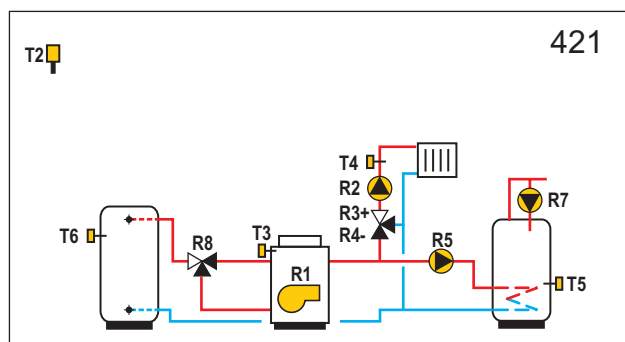
WDC20 Combined (wood/oil) boiler, mixing circuit, d. h. w. storage tank.



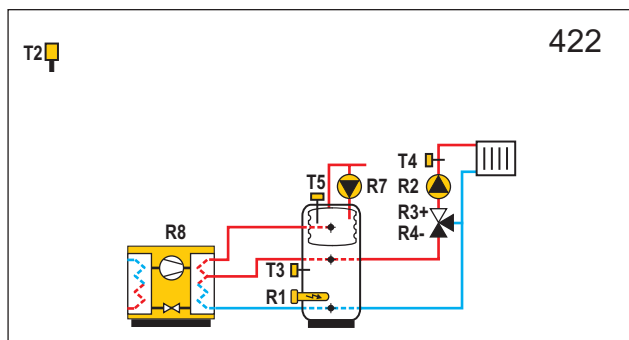
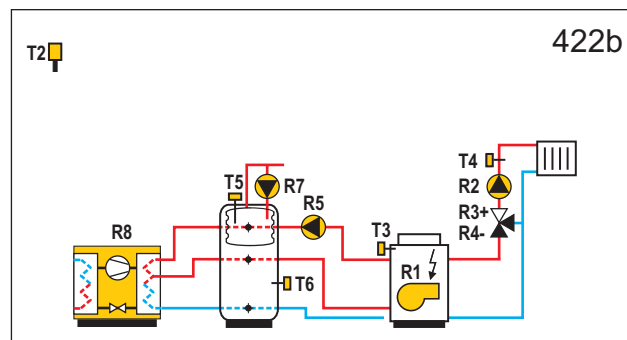
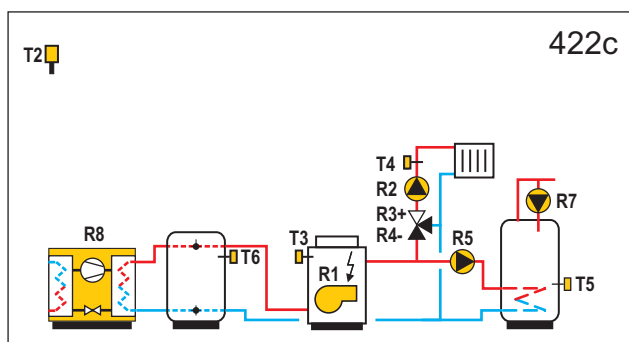
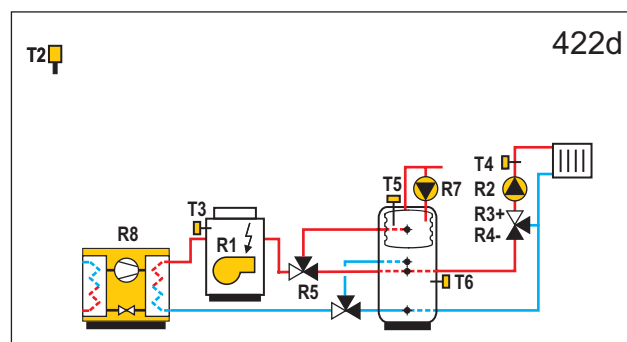
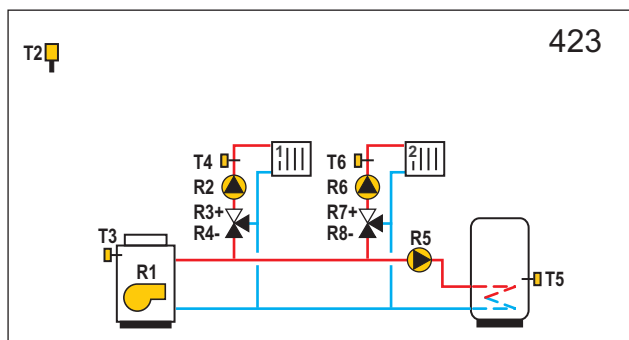
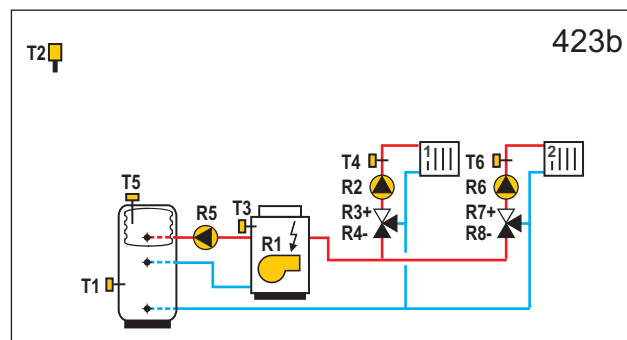
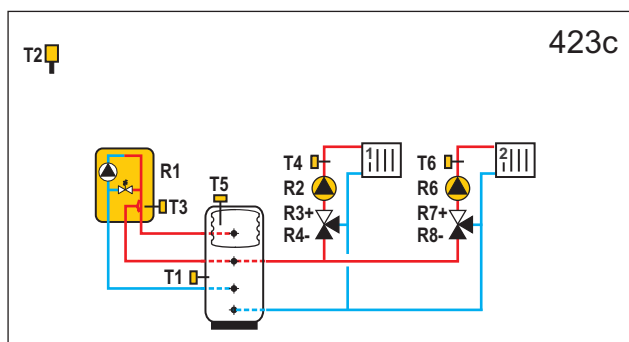
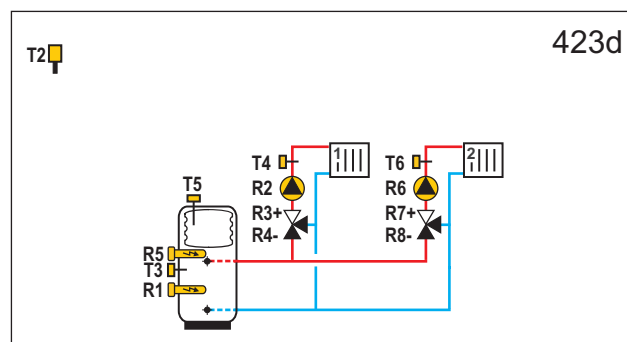
WDC20 Heat pump, direct circuit, d. h. w. storage tank.

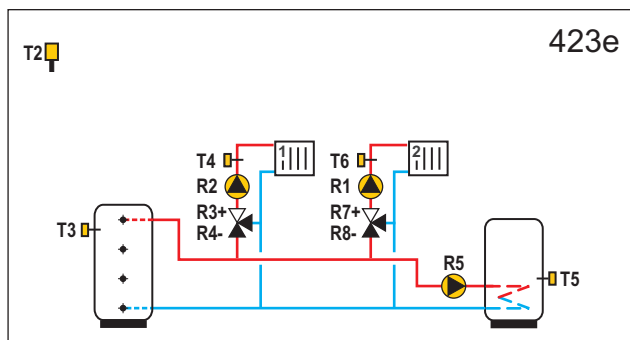


WDC20 Heat pump, heating support with electricity, direct circuit, d. h. w. storage tank.

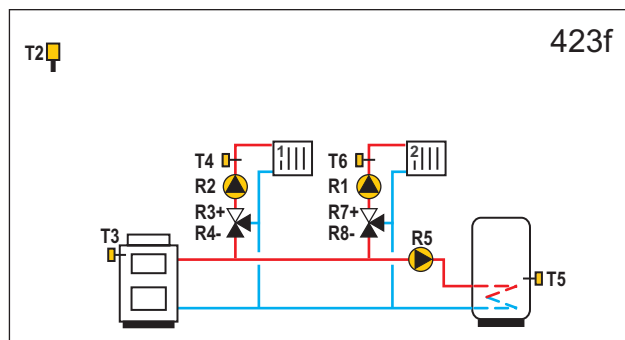


WDC20 Oil boiler, heat accumulator, mixing circuit, d. h. w. storage tank.

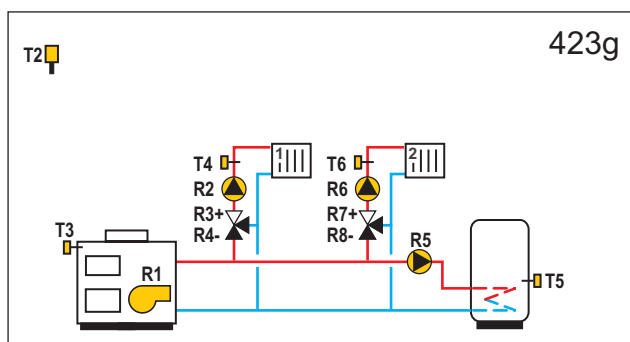
APPLICATION**WDC20** Heat pump, direct circuit, d. h. w. storage tank**WDC20** Heat pump, direct circuit, d. h. w. storage tank, solar collectors.**WDC20** Heat pump, heating support with electricity, direct circuit, d. h. w. storage tank.**WDC20** Heat pump, combined (oil/electricity) boiler, heat accumulator with built-in d. h. w. storage tank, mixing circuit.**WDC20** Oil boiler, 2x mixing circuit, d. h. w. storage tank.**WDC20** Combined (oil/electricity) boiler, heat accumulator with built-in d. h. w. storage tank, 2x mixing circuit.**WDC20** Gas boiler, heat accumulator with built-in d. h. w. storage tank, 2x mixing circuit.**WDC20** heat accumulator with built-in d. h. w. storage tank, auxiliary heating with electricity, 2x mixing circuit.

APPLICATION

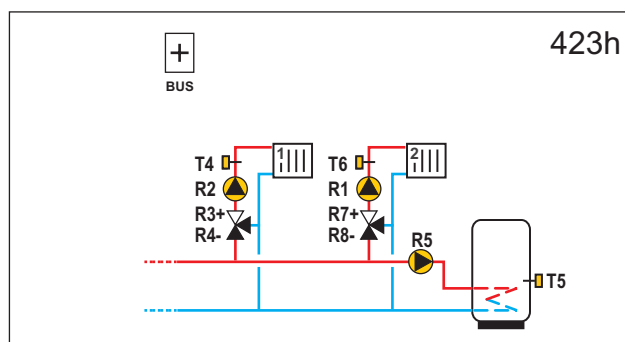
WDC20 Heat accumulator, 2x mixing circuit,
d. h. w. storage tank.



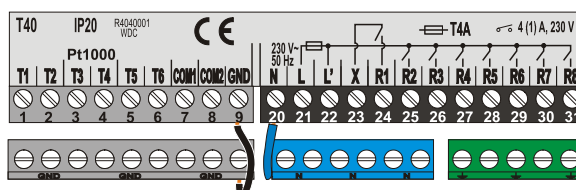
WDC20 Wood boiler, 2x mixing circuit, d. h. w. storage
tank.



WDC20 Combined (wood/oil) boiler, 2x mixing circuit,
d. h. w. storage tank.










WDC20 System expand, 2x mixing circuit,
d. h. w. storage tank.

CONNECTION TERMINALS

SENSORS, ROOM UNITS, ACTUATORS

For WDC controllers are available following sensors and room units:

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

ORDERING CODES**Heating controllers WDC**

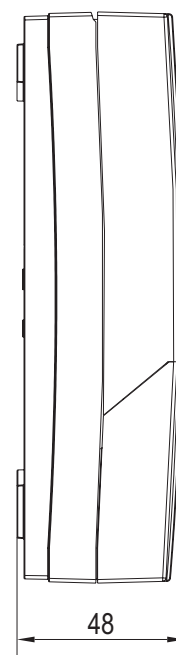
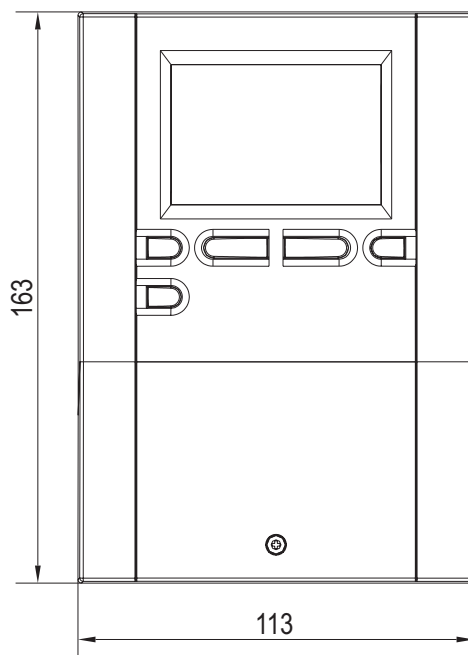
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2WDC1000000-010	Heating controller PROMATIC WDC10
2WDC2000000-010	Heating controller PROMATIC WDC20

Heating controller WDC with sensors

2WDC10B21100-010	Heating controller PROMATIC WDC10B with sensors 2 x TF/Pt, 1 x AF/Pt, 1 x VF/Pt
2WDC1041100-010	Heating controller PROMATIC WDC10 with sensors 4 x TF/Pt, 1 x AF/Pt, 1 x VF/Pt
2WDC2041100-010	Heating controller PROMATIC WDC20 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
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
Controller housing	ASA - thermoplastics
Dimensions	113 x 163 x 48 mm
Weight	391 g
Permissible ambient temperature	5 °C ... +40 °C
Storage temperature	20 °C ... +65 °C

DIMENSIONS

Data sheet

HEATING CONTROLLERS

PROMATIC® WDC10B, WDC10, WDC20



NOTES

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PROMATIC® WDC10B, WDC10, WDC20



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