



kiwa

Tender specification:

Oventrop circulation pump group “Regucirc B” for potable water circulation systems with monovalent storage cylinder and hydronic balancing by static double regulating and commissioning valves “Aquastrum C” in detached and semi-detached houses. With energy-saving high-efficiency pump (complies with the energy efficiency class A rating for heating circulation pumps), non-return check valve, thermostatic circulation valve “Aquastrum VT” and control thermometer for the direct connection to the return pipe of a potable water circulation system.

Application:

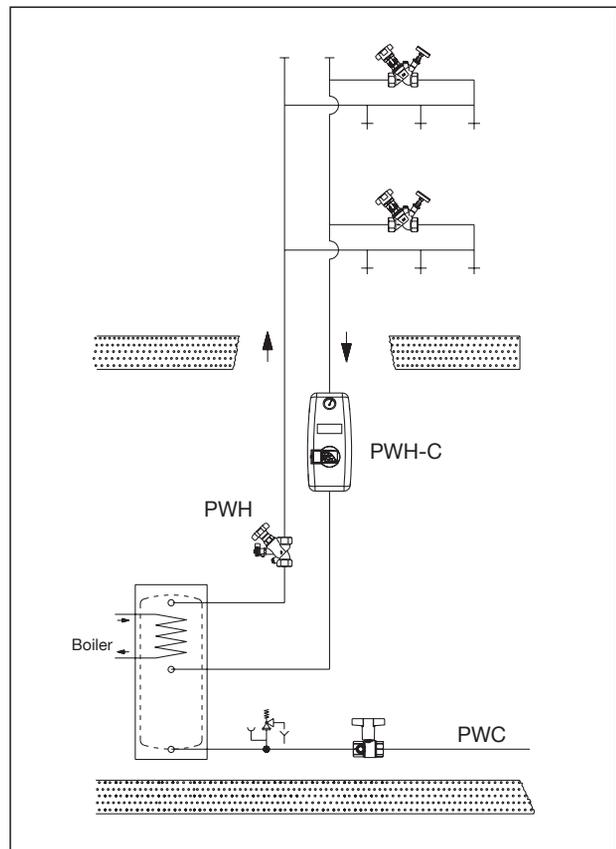
The circulation station is installed in the return pipe of the circulation system. The high-efficiency pump is automatically adjusted to the optimum output with the help of the integrated thermostatic circulation valve “Aquastrum VT”. The thermostatic circulation valve “Aquastrum VT” and the high-efficiency pump “AXW 12” support each other with the thermal disinfection by increasing the residual volume flow. This way, the duration of the disinfection process is reduced.

Technical data:

Size:	DN 20 - G 1 x G 1
Fluid:	Potable water, PN 10 max. 90 °C
Adjustable temperature range:	50 °C-65 °C
Recommended control temperature:	57 °C
Residual volume flow DN 20:	VE1: $k_v = 0.10$
(VE = presetting)	VE2: $k_v = 0.14$
	VE3: $k_v = 0.18$
	VE4: $k_v = 0.22$
	VE5: $k_v = 0.26$
	VE6: $k_v = 0.30$
Factory setting DN 20:	VE6: $k_v = 0.30$
Residual volume flow increase:	$k_v = VE + 0.025 (k_v)$
(disinfection phase)	
High-efficiency pump:	
Supply voltage:	1 x 230 VAC +6 %/-10 %, 50Hz, PE
Power consumption:	5-22 W
Noise:	Sound pressure level < 43dB(A)
Materials:	Bronze, vanadium, EPDM, polyphenylene oxide
(in contact with the fluid)	
Installation position:	Vertical, easily accessible
Max ambient temperature:	30 °C
Connection:	Flat sealing male thread according to DIN ISO 228
Item no.:	4206776



“Regucirc B”



System illustration

Function:

The circulation station “Regucirc B” serves the operation of small potable water circulation systems with monovalent storage cylinders. The system can be hydraulically balanced with the help of static valves in one or two risers. Having achieved the circulation temperature set at the circulation valve “Aquastron VT”, the valve closes to the set residual volume flow. This way, the flow resistance is increased and the power consumption of the high-efficiency pump is reduced. When the return temperature cools down, the valve opens again, the flow resistance is reduced and the power consumption of the high-efficiency pump is adapted to the higher hydronic requirements.

During thermal disinfection, the pump output is increased in proportion to the thermostatically controlled opening of the circulation valve. As the circulation volume flow is increased as a result, the duration of the high temperature phase during thermal disinfection is reduced considerably and significant energy savings can be made.

Maintenance advice:

Replacement of the pump:

The circulation pump group is easily accessible for the replacement of the pump after removal of the insulation shells. Close the ball valve at the circulation valve. The pump can be removed after loosening of the collar nuts at the pump flanges.

WARNING! 230VAC ~ voltage!

The electrical connection/disconnection of the pump must only be carried out by a qualified electrician!

Circulating water which may flow back when replacing the pump is prevented from escaping by the check valve installed at the outlet port of the pump group. The seals must always be replaced by temperature-resistant new ones when replacing the pump.

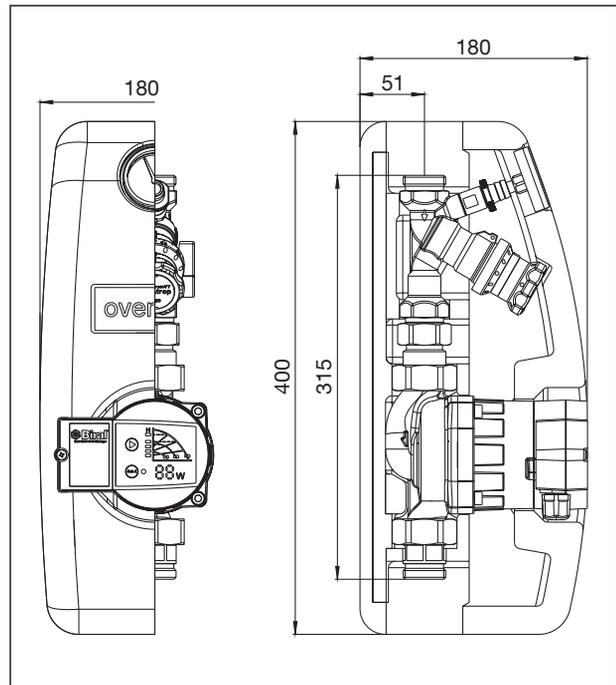
Spare parts:

Spare pump Biral AXW 12
G 1¼ x 120 mm, 230V-50Hz
Item no.: 4206790

Spare thermometer
Item no.: 4205591

Spare insulation shell
Item no.: 4206795

Spare circulation valve
Item no.: 4206706



Dimensions

Subject to technical modifications without notice.

Product range 12
ti 272-EN/10/MW
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