

Application:

Oventrop product assemblies “Regumaq X-30” and “Regumaq XZ-30” for the hygienic heating of potable water according to the continuous flow principle for the connection to a buffer storage cylinder.

Advantages:

- hygienic heating of potable water according to the continuous flow principle
- high functional efficiency
- all components from one supplier
- high quality materials
- max. continuous operating temperature 120°C
- insulation made of EPP (expanded polypropylene) supplied with each “Regumaq”
- time-saving installation
- efficient microprocessor driven control with simple menu command via multifunctional display
- station with integrated circulation pump (“Regumaq XZ-30”)

Tender specification:

Heat exchanger system “Regumaq X-30” for the connection to the storage cylinder circuit DN 25 and the potable water circuit DN 25 G 1 flat sealing (connection sets to be ordered separately). Complete pre-assembled and leak tested unit with wall mounting device, insulation and electronic controller. Model “Regumaq XZ-30” with integrated circulation pump.

Technical data:

Max. continuous operating temperature:	95°C
Primary circuit:	
Max. excess operating pressure:	6 bar
k _v value:	3.6
Opening pressure check valve:	35 mbar
Fluid:	Heating water
Pump type:	Wilo RS 15/6-3
Max. power consumption:	93 W
Secondary circuit:	
Max. excess operating pressure:	10 bar
k _v value:	3.1
Fluid:	Potable water
Pump type (only “Regumaq XZ-30”):	Wilo ZRS 15/4-3 Ku
Power consumption pump speed 3:	about 55 W

Dimensions:

Distance between pipe connections:	100 mm
Width:	500 mm
Height:	860 mm
Depth:	260 mm
Pipe centres to wall (primary):	132 mm
Pipe centres to wall (secondary):	82 mm

Materials:

Valves:	Brass/dezincification resistant brass
Seals:	EPDM / AFREE 400
Insulation:	EPP (expanded polypropylene)
Check valves:	PPS (polyphenylsiloxane)/brass/ dezincification resistant brass
Pipes:	Stainless steel 1.4401
Heat exchanger:	Stainless steel 1.4401/brazed copper (item no. 138 10 60, 138 10 65, 138 10 70, 138 10 75) Completely of stainless steel 1.4401 (item no. 138 10 62, 138 10 67)



“Regumaq X-30”



“Regumaq XZ-30”

Note:

The stations “Regumaq X-30”/“Regumaq XZ-30” feature a copper brazed stainless steel heat exchanger. The specifying engineer and the user of the system are responsible to consider substances in the water and factors influencing corrosion and the formation of stones in the system and to evaluate them for the appropriate application.

Please observe the document “Demands on potable water when using Oventrop fresh water and dwelling stations” at www.ventrop.com.

When operating a circulation system, the hygiene regulations according to the DWGW work sheet W551 must be observed.

Functional description:

The buffer storage cylinder is integrated into the heating circuit and is supplied with heat by an autonomously controlled heat source.

The only design intent of the electronic controller of the “Regumaq X-30/XZ-30” is the heating of the potable water via the speed controlled primary pump.

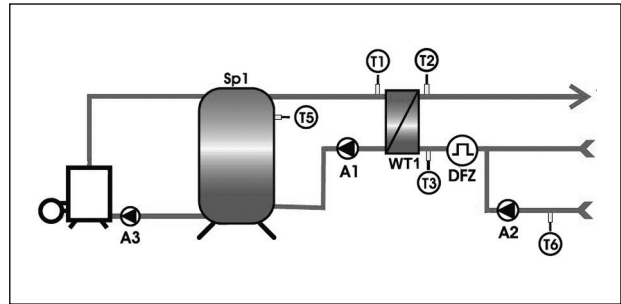
The integrated operating unit serves the control of all functions and the retrieval of the current operating data.

Connection diagram:

“Regumaq X-30”/“Regumaq XZ-30”

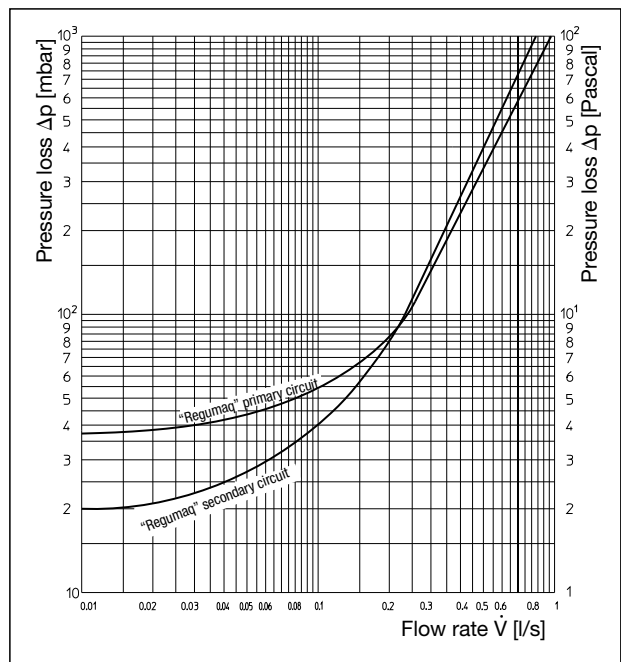
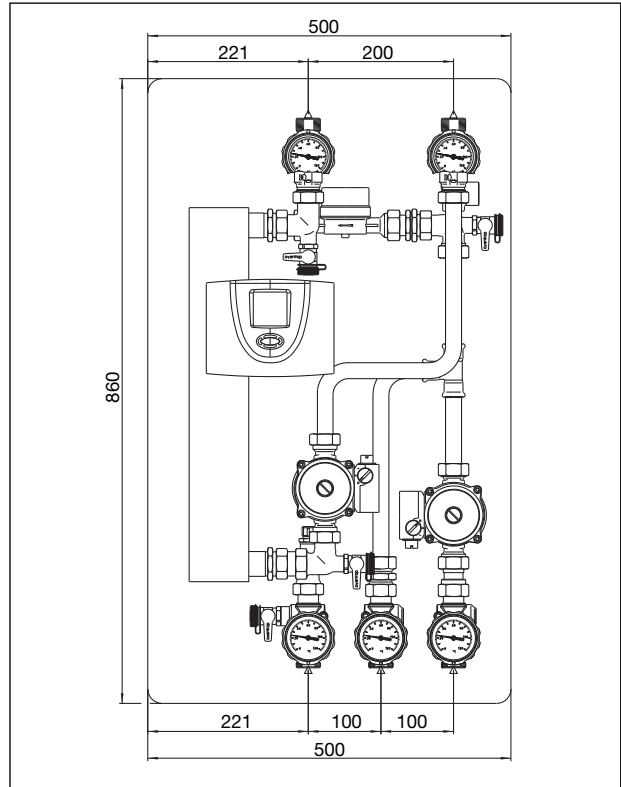
- DFZ Flow sensor
- A1 Connection pump storage cylinder circuit
- A2 Connection circulation pump (only “Regumaq XZ-30”)
- A3 Request signal for re-loading function (optional)
- T1 Temperature storage cylinder entry
- T2 Temperature hot water entry
- T3 Temperature cold water entry
- T5 Temperature buffer storage cylinder for re-loading function (optional)

	“Regumaq X-30”	“Regumaq XZ-30”	“Regumaq X30-B”	“Regumaq XZ-30-B”
Item no.	138 10 60 138 10 62	138 10 65 138 10 67	138 10 70	138 10 75
Pump (buffer side)	Wilo RS 15 6/3	Wilo RS 15 6/3	Wilo RS 15 6/3	Wilo RS 15 6/3
Pump (circulation)	-	Wilo ZRS 15/4-3KU	-	Wilo ZRS 15/4-3KU
Data output (S-bus)			X	X



Connection diagram “Regumaq X-30”/“Regumaq XZ-30”

Dimensions:

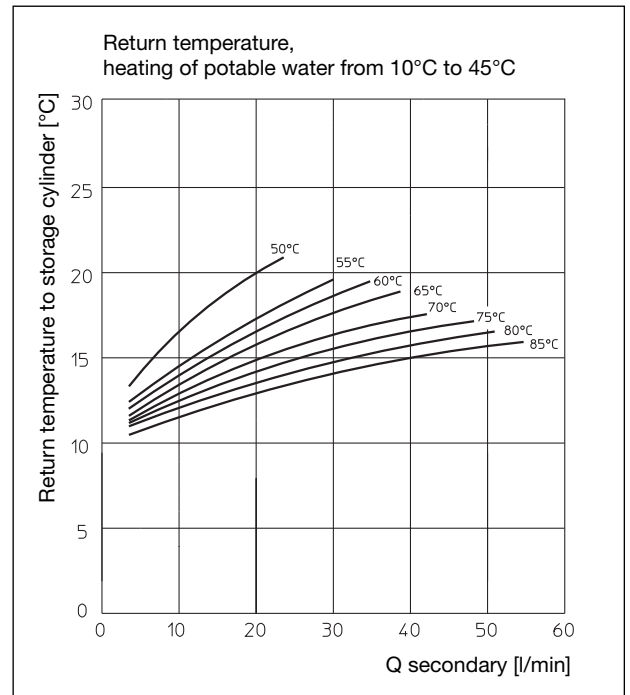
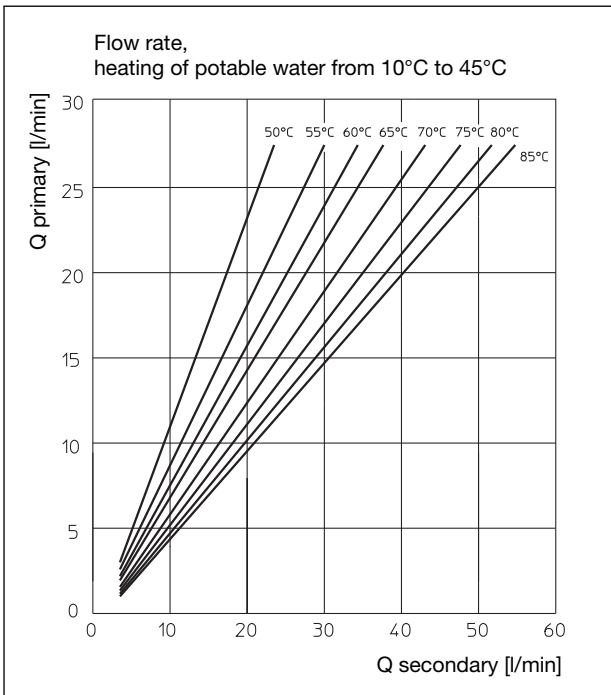
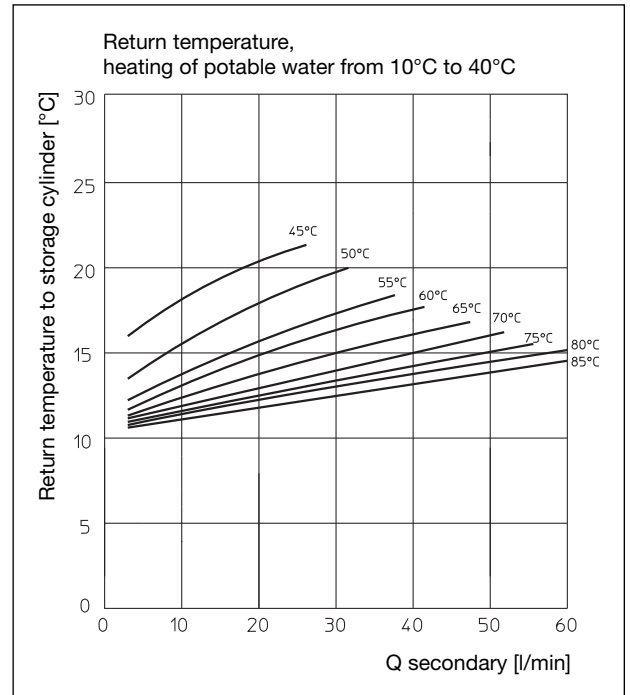
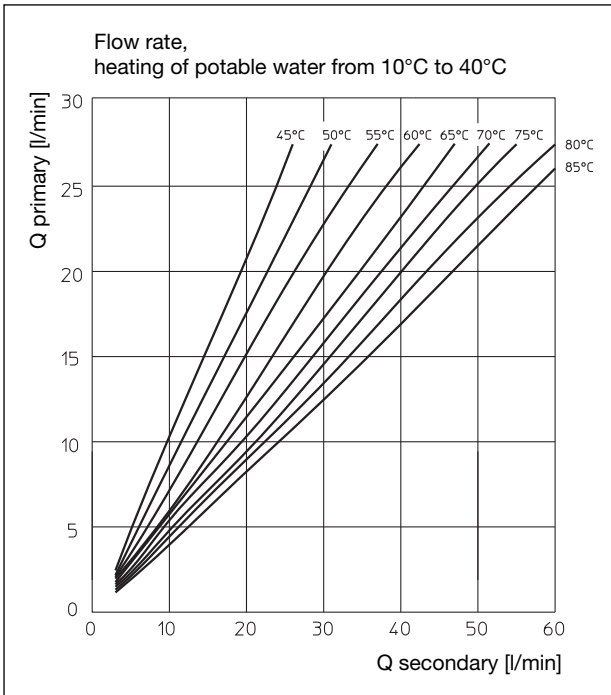


Flow chart “Regumaq X-30”/“Regumaq XZ-30”

Characteristic lines:

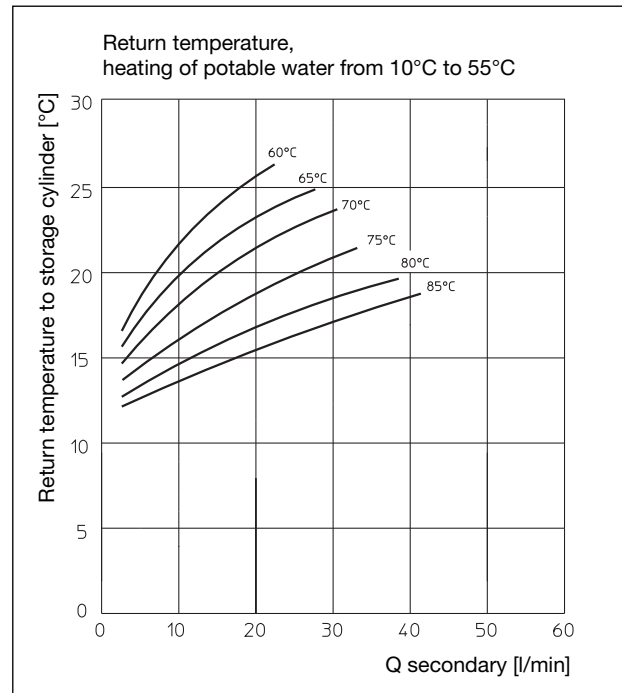
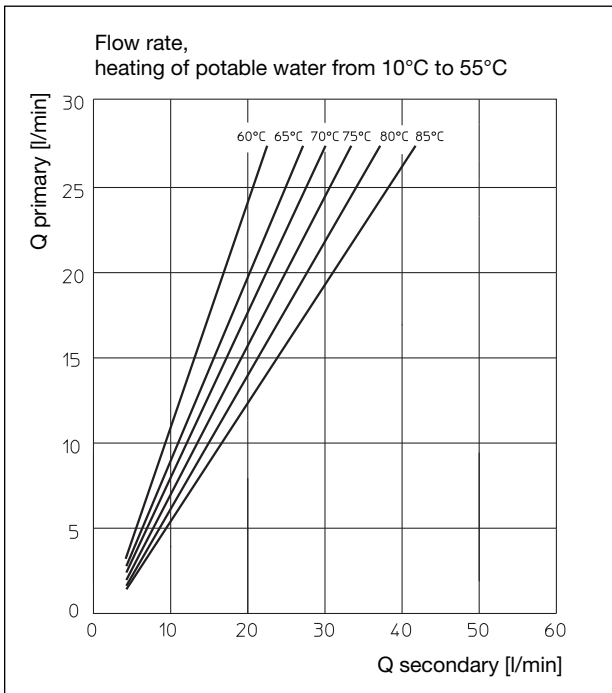
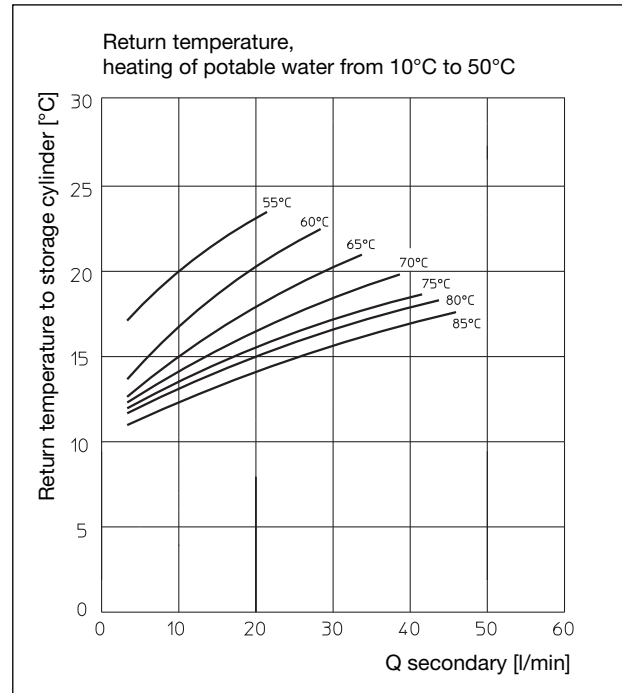
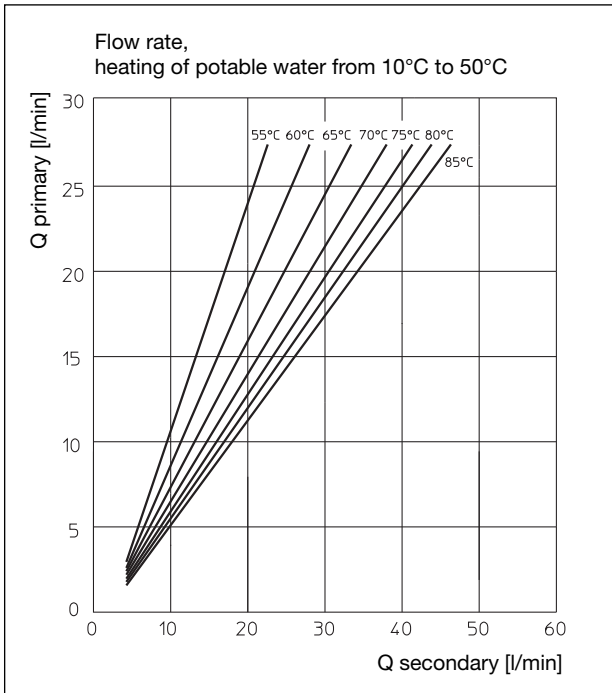
Required flow of heating water (Q primary) with drawn off quantity of potable water (Q secondary) and storage cylinder temperature

Return temperature to storage cylinder with drawn off quantity of potable water (Q secondary) and storage cylinder quantity

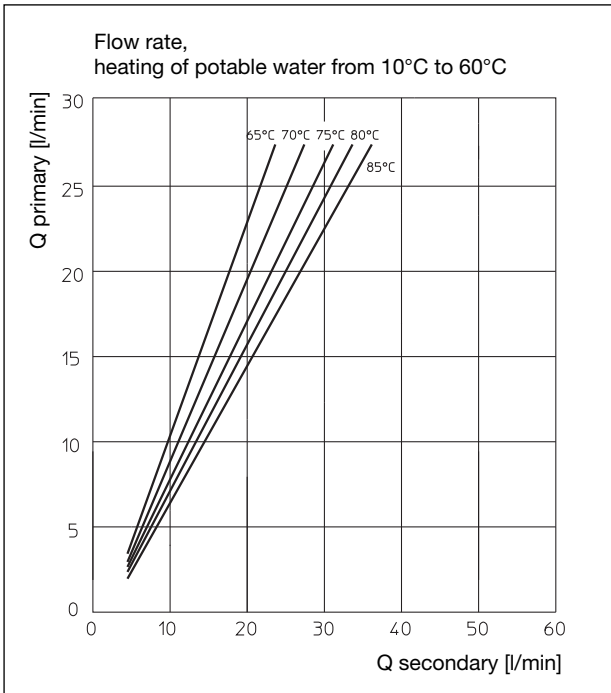


Required flow of heating water (Q primary) with drawn off quantity of potable water (Q secondary) and storage cylinder temperature

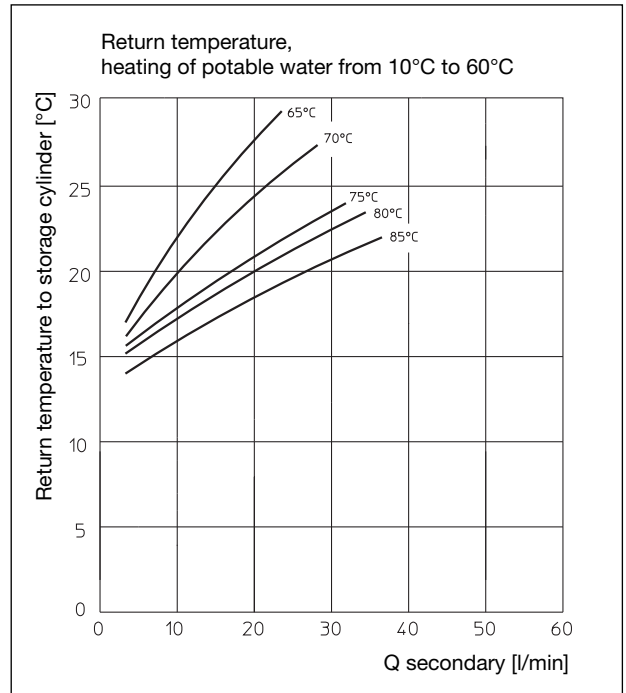
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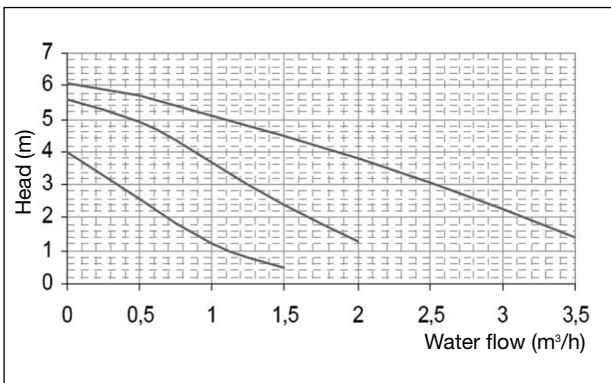
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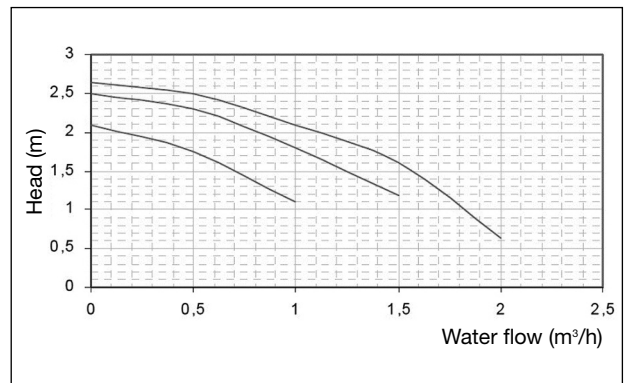
Return temperature to storage cylinder with drawn off quantity of potable water (Q secondary) and storage cylinder quantity



Pump characteristics:



Wilo RS 15/6-3



Wilo ZRS 15/4-3 Ku

Subject to technical modification without notice.

Product ranges 7/12
ti 246-1/10/MW
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