

Application:

Oventrop product assembly “Regumaq XH” 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 reliability
- all components from one supplier
- high quality materials
- maximum continuous operating temperature 95 °C
- insulation made of EPP (expanded polypropylene) supplied with each “Regumaq”
- time-saving installation

Tender specification:

Station “Regumaq XH” for hot potable water preparation for the connection to the storage cylinder circuit DN 20 G 1 flat sealing and the potable water circuit DN 15 G 3/4 flat sealing (connection sets to be ordered separately).

Complete, pre-assembled and leak tested unit with wall mounting device and insulation. The station can be upgraded with a circulation set.

Item no.: 1381042

Technical data:

Max. continuous operating temperature: 95 °C

Max. operating pressure (primary side): 6 bar

Max. operating pressure (secondary side): 10 bar

k_{vs} value:

Primary side: 1.85

Secondary side: 0.76

Secondary side-circulation operation: 0.96

Minimum cold water pressure (with a nominal draw off capacity of 20 l/min): 3.5 bar *

* In case of higher draw off capacities, the pressure has to be increased accordingly - see pressure loss secondary side

Fluid:

Primary side: Heating water

Secondary side: Potable water

Pump type: Wilo-Yonos PARA RS 130
15/7 PWM2

Power consumption: approx. 45 W

Protective system flow switch: IP 67

Number of heat exchanger plates: 30

Connections:

Primary side: G 1 flat sealing

Secondary side: G 3/4 flat sealing

Dimensions:

Width: 400 mm

Height: 690 mm

Depth: 186 mm

Distance between pipe centres

– wall (primary side): 94 mm

Distance between pipe centres

– wall (secondary side): 54 mm

Materials:

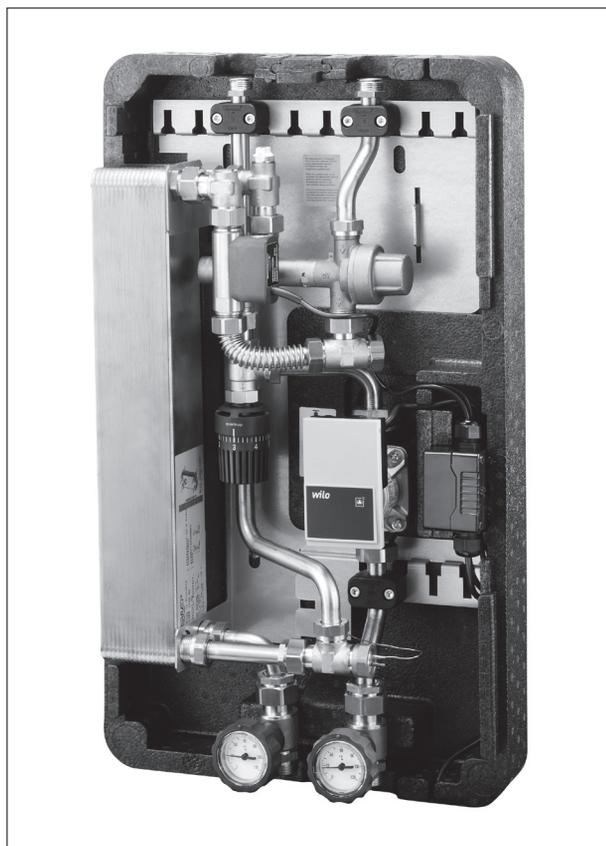
Valves and fittings: Brass / dezincification resistant brass

Seals: PTFE

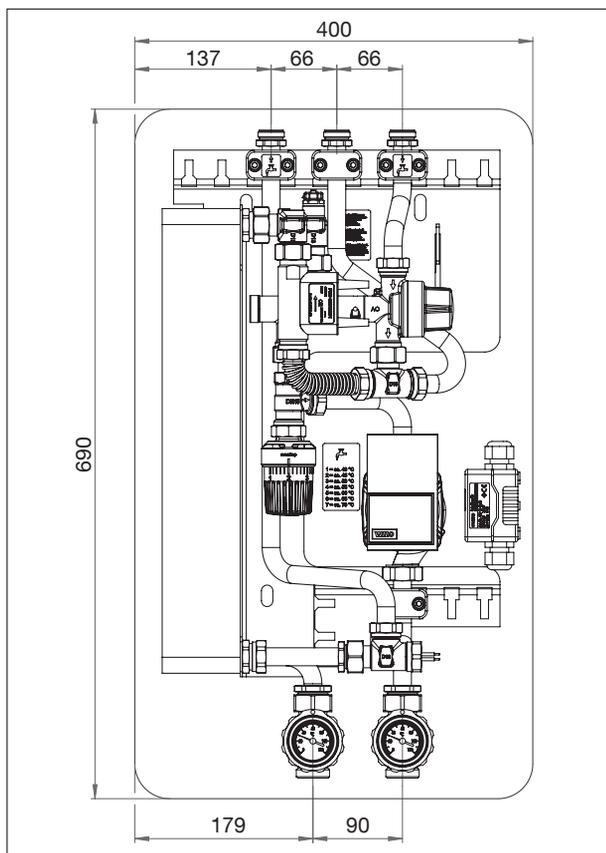
Insulation: EPP (expanded polypropylene)

Pipes: Stainless steel 1.4401 / 1.4404

Heat exchanger: Stainless steel 1.4401 / brazed copper



“Regumaq XH”



Note:

A copper brazed stainless steel heat exchanger is part of the “Regumaq XH” station. The specifying engineer and the user of the system are responsible to incorporate and evaluate substances and other factors in the water, which influence corrosion and the formation of calcium deposits.

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

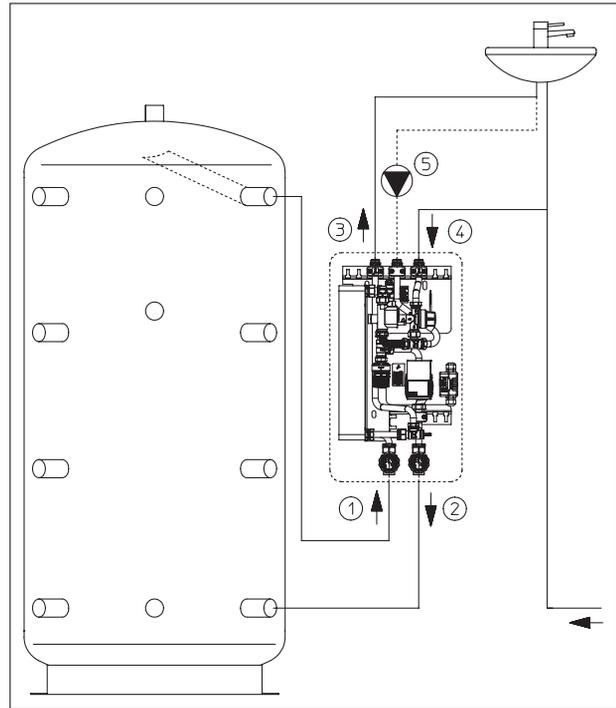
Note regarding circulation operation:

When operating a circulation system, the approved rules of technology and the hygiene regulations according to the DWGW work sheet W551 must be observed.

When operating a circulation pump, the storage cylinder pump is started at the same time in order to compensate the circulation loss and to reach the set potable water temperature.

Therefore:

- Operate time controlled setting of the circulation pump with operating times as short as possible
- Operate temperature controlled setting of the circulation pump (on site)

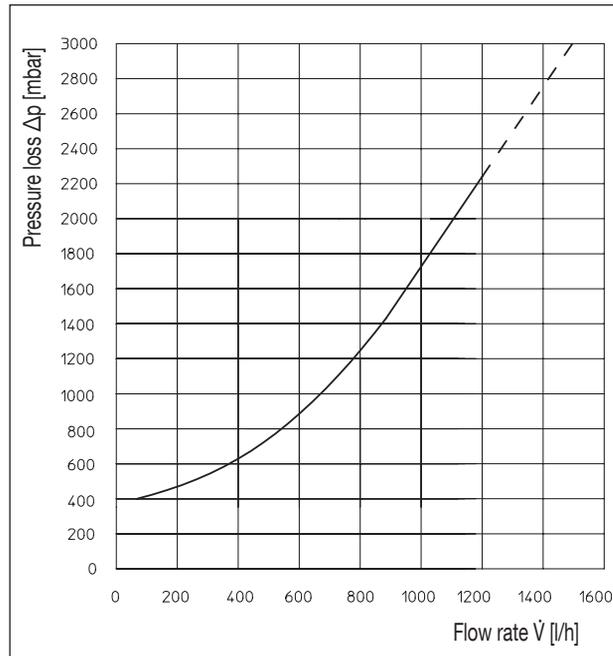


System illustration:

- 1 Supply from the buffer storage cylinder
- 2 Return to the buffer storage cylinder
- 3 Hot water
- 4 Cold water supply
- 5 Circulation pipe - return
(optionally with item no. 1381047 or 1381049)

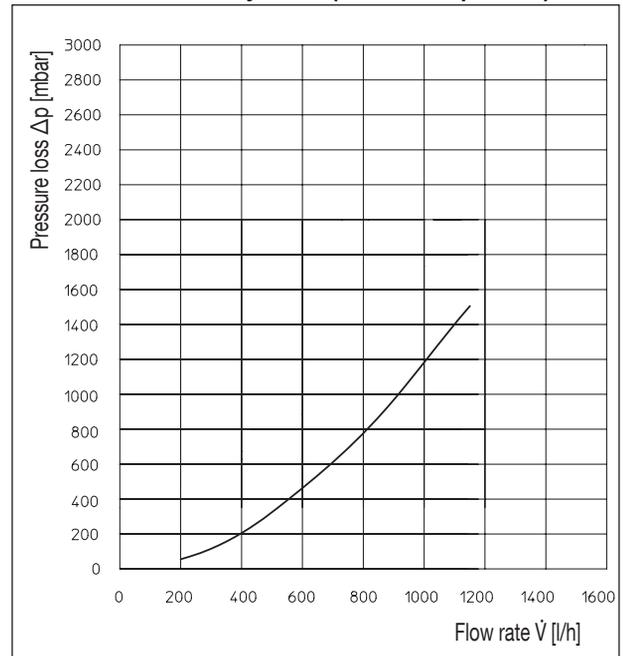
Characteristic lines:

Pressure loss secondary circuit (potable water operation)



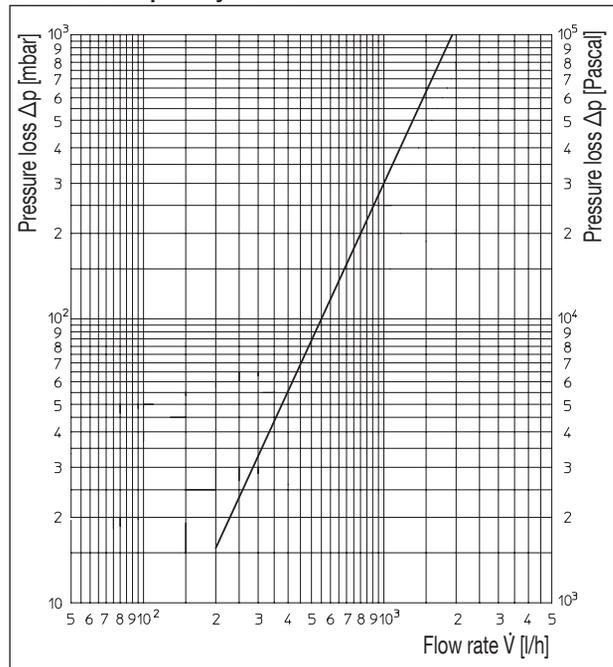
Pressure loss secondary circuit (potable water circuit) when drawing off potable water

Pressure loss secondary circuit (circulation operation)



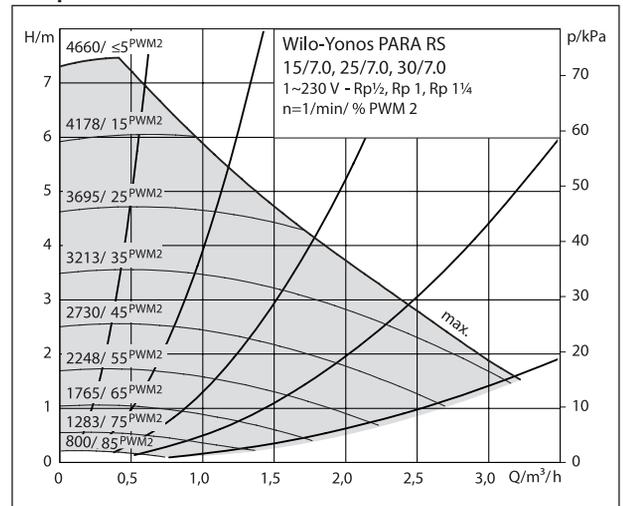
Pressure loss secondary circuit (potable water circuit) during circulation operation

Pressure loss primary circuit



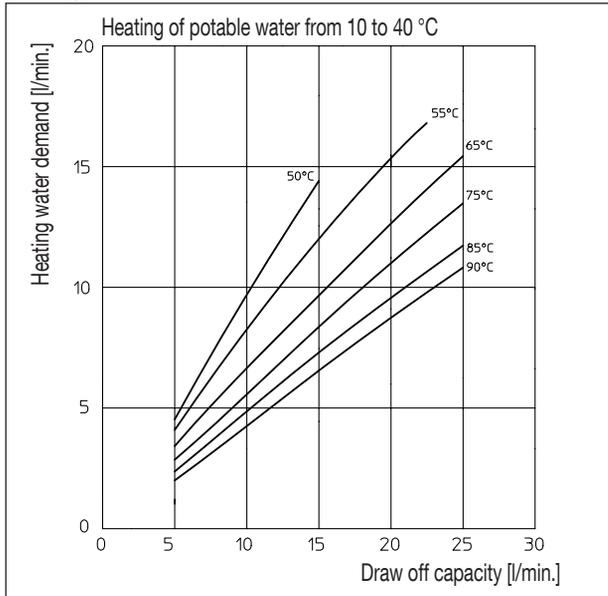
Pressure loss primary circuit (storage cylinder circuit) at maximum draw off capacity

Pump characteristic line

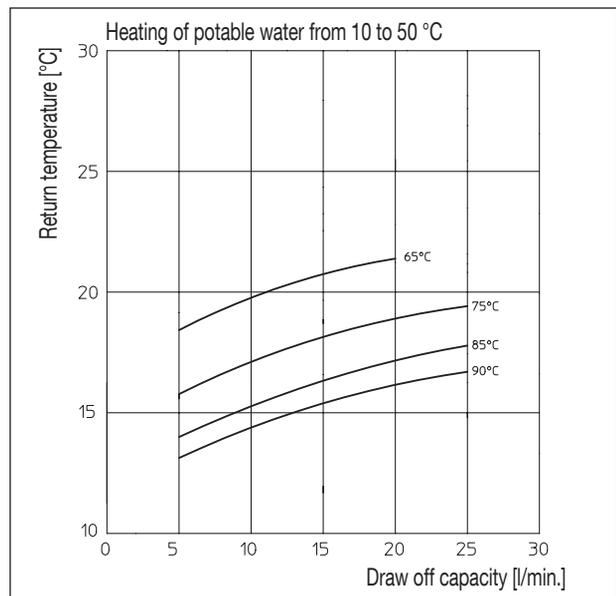
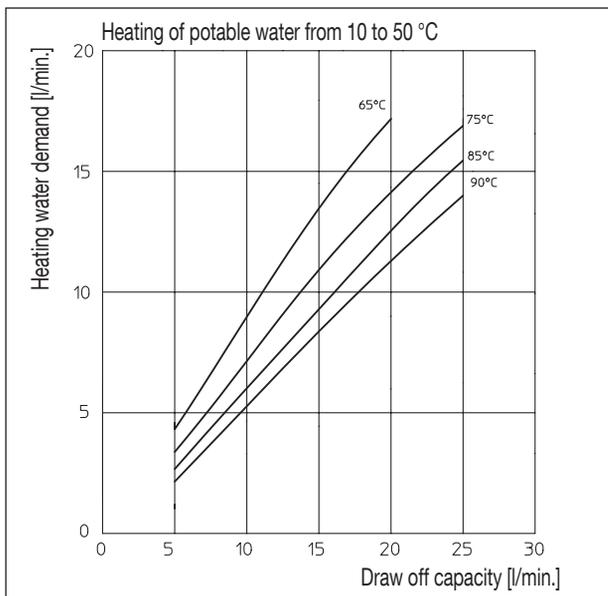
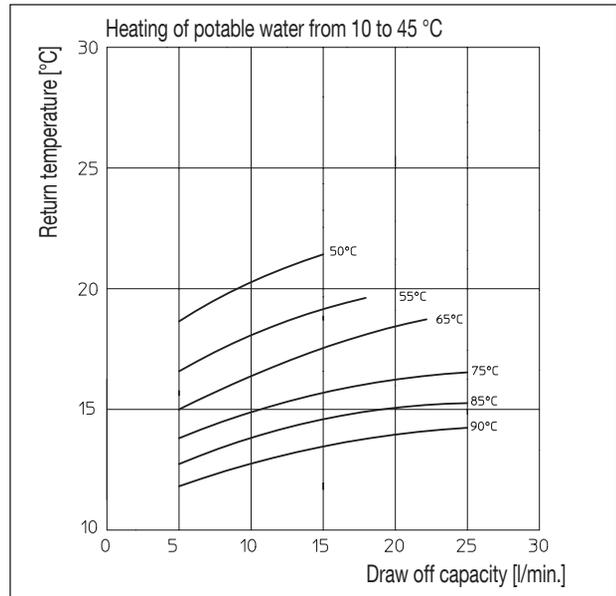
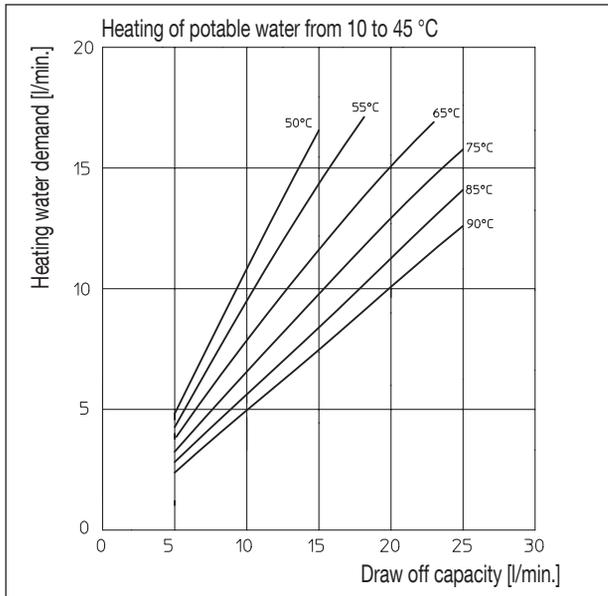
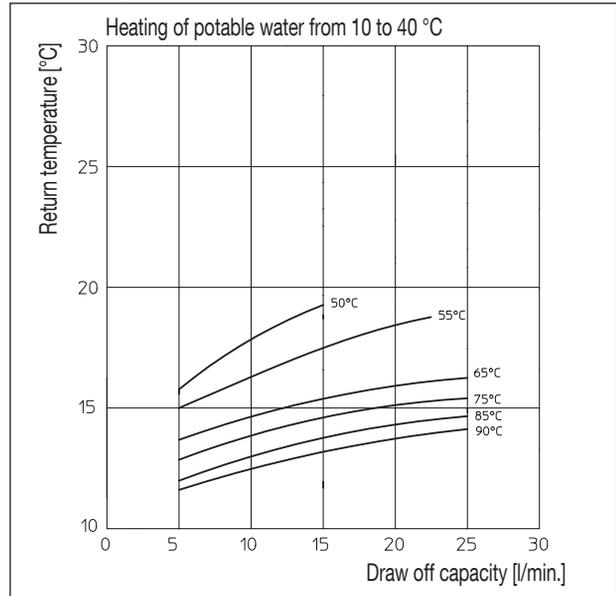


Wilo-Yonos PARA RS 130 15/7 PWM2

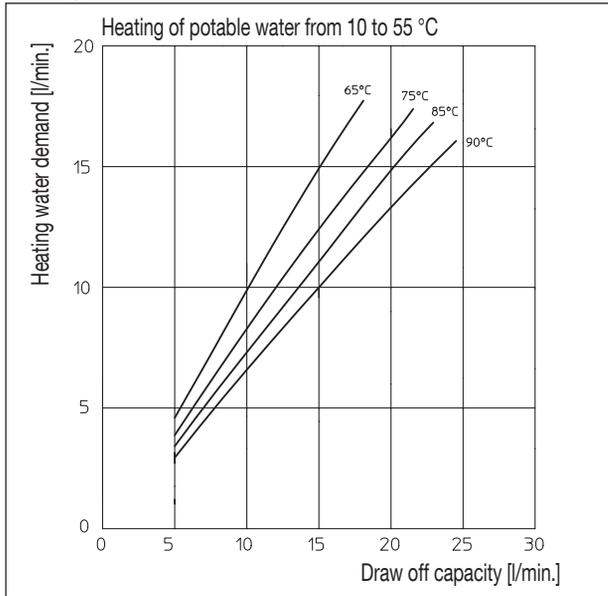
Heating water demand



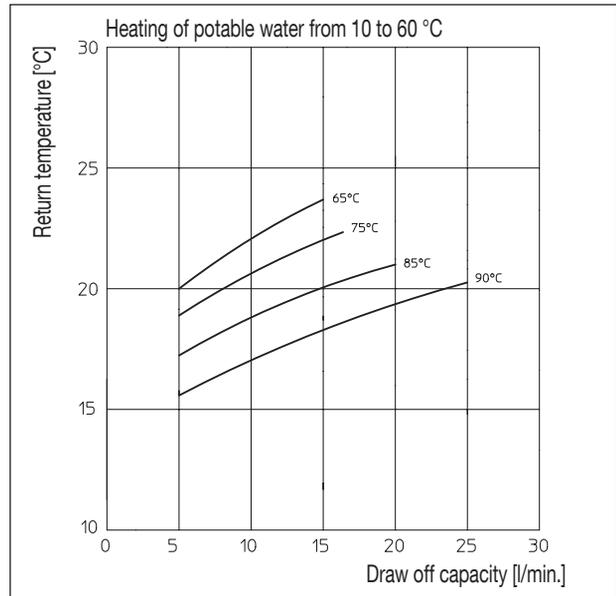
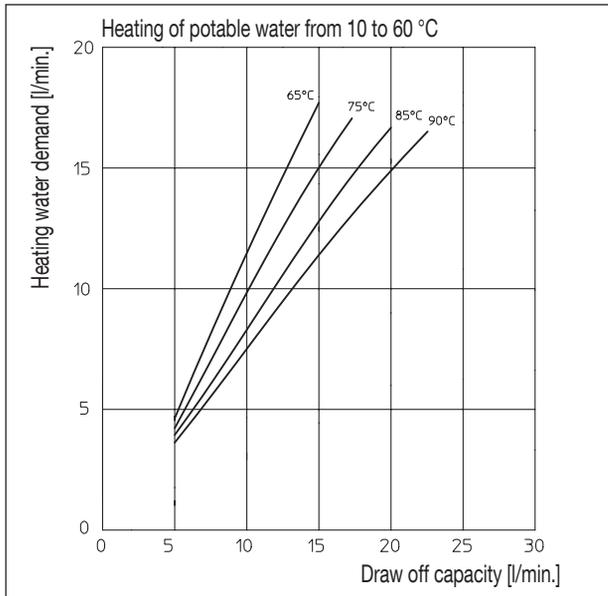
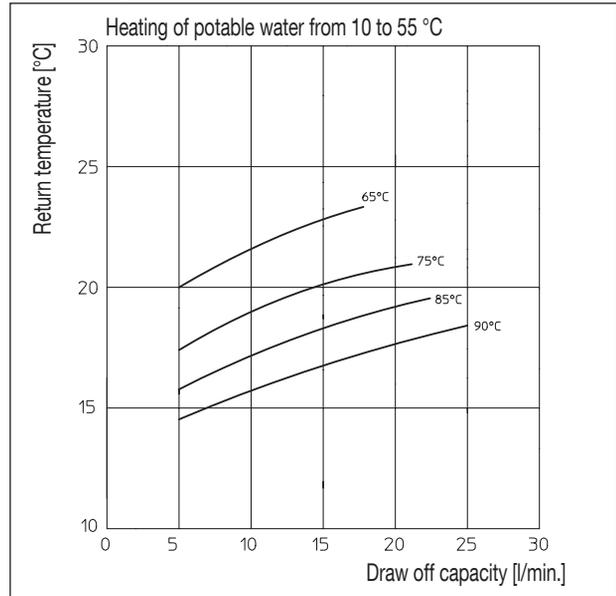
Return temperature



Heating water demand



Return temperature



Subject to technical modifications without notice.

Product range 6
ti 300-EN/10/MW
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