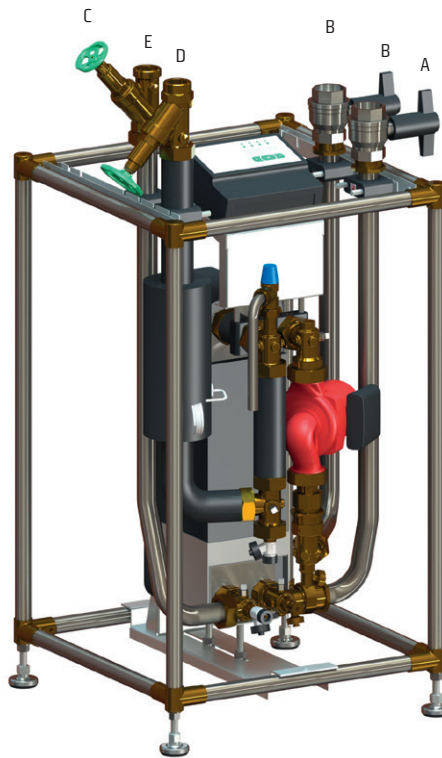


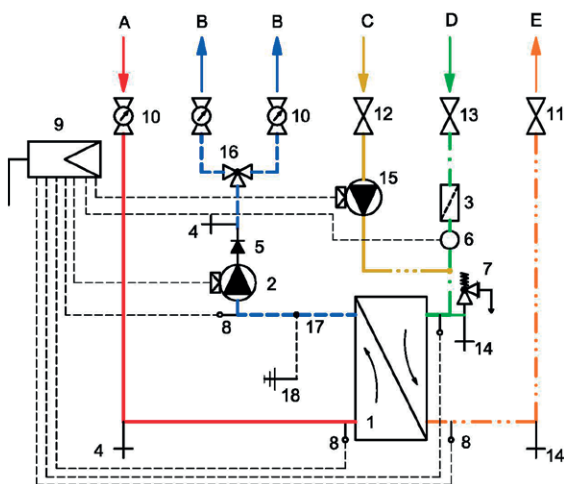
Fresh water unit FWS-V500

FWS-V500-60 ➔ FWS-V500-80

➔ Equipment example with process water circulation



➔ Hydraulic diagram



A	Heating flow, primary
B	Heating return, primary
C	Process water circulation
D	Drinking water from the line
E	Domestic hot water home
1	Plate heat exchanger GBS 240H-60, GBS 240H-80
2	Pump UPS32-80
3	Dirt trap
4	valve 1/2" external thread
5	Backflow preventer (shut-off valve without spring)
6	Volume flow gauge turbine
7	Safety valve 10 bar
8	Screw-in sensor
9	Exchanger circuit controller
10	Ball valve with thermometer DN40
11	Free flow shut-off valve DN32
12	Combi backflow preventer DN25
13	Combi backflow preventer DN32
14	SFE valve 1/4" external thread
15	Pump UPS25-60N
16	Switching valve primary retur
17	Connection for potential equalisation
18	Earthing provided on site

↗ Technical data

Materials

Fittings	Sanitary: CW602N, CW617N Heating: CW617N, CW614N
Seal	OHA-Press
Thermal insulation	EPP
Heat exchanger	Plates: 1.4404, Solder: copper or nickel or screwed exchanger
Pipeline	1.4401

Controller

- Microprocess-controlled controller with monitoring, operating and readout displays; with setting of desired parameters such as domestic hot water temperature, circulation temperature with time program or tap detection.
- Temperature sensor in the heating flow, heating return, Cold and Hot water pipe.
- Recirculating pump UPS 32-80 and check valve in the heating return

Sanitary

Max. operating pressure	PN 10
Domestic hot water temperature	60 °C
Domestic cold water temperature	10 °C
Domestic hot water output	up to 432 kW
Domestic hot water tap amount	approx. 125 l/min

Heating

Max. operating pressure	PN 6
Max. operating temperature	90 °C
Min. operating temperature	5 °C
Max. heating volume flow	6.800 l/h

Electrical

Power connection	230V/50Hz
Current consumption	up to 8,18 A
Power consumption	up to 1,23 kW

Dimensions

Width x height x depth	553 x 1136 x 553 mm (with covering)
Weight	approx. 120 kg

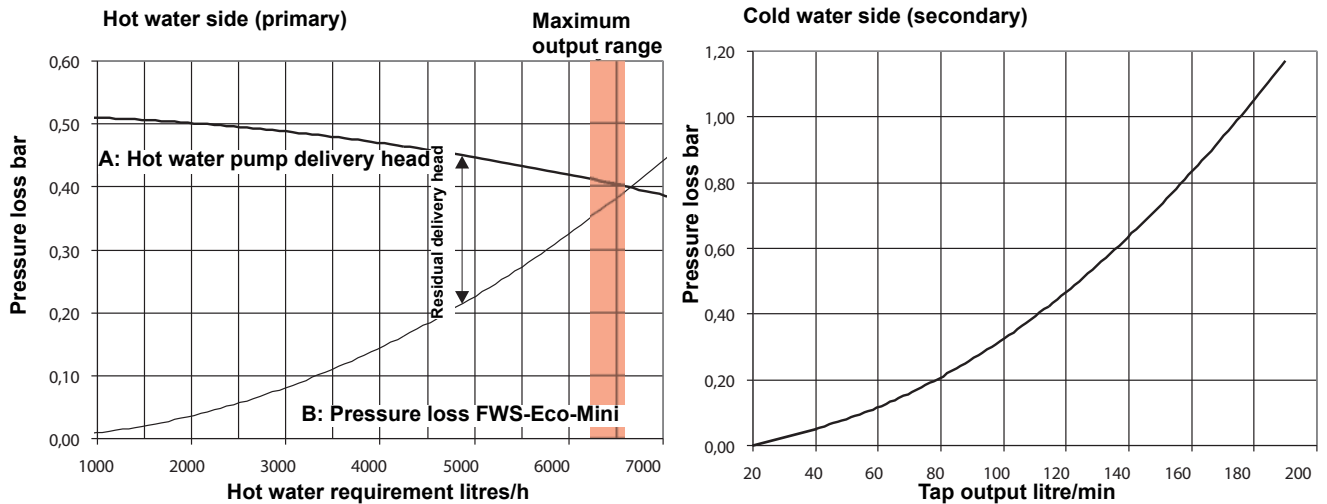
Article no.

102 307 9	FWS-V500-60 basic unit without circulation	up to 75 l/min
102 417 5	FWS-V500-60 basic unit without circulation, with switching valve in heating return	up to 75 l/min
102 417 6	FWS-V500-60 basic unit without circulation, with pre-mixing valve in heating flow	up to 75 l/min
102 417 7	FWS-V500-60 basic unit without circulation, with switching valve in heating return, Pre-mixing valve heating flow	up to 75 l/min
102 307 7	FWS-V500-80 basic unit without circulation	up to 125 l/min
102 417 8	FWS-V500-80 basic unit without circulation, with switching valve in heating return	up to 125 l/min
102 417 9	FWS-V500-80 basic unit without circulation, with pre-mixing valve in heating flow	up to 125 l/min
102 418 0	FWS-V500-80 basic unit without circulation, with switching valve in heating return, Pre-mixing valve heating flow	up to 125 l/min

Domestic hot water circulation construction kit for FWS-V500

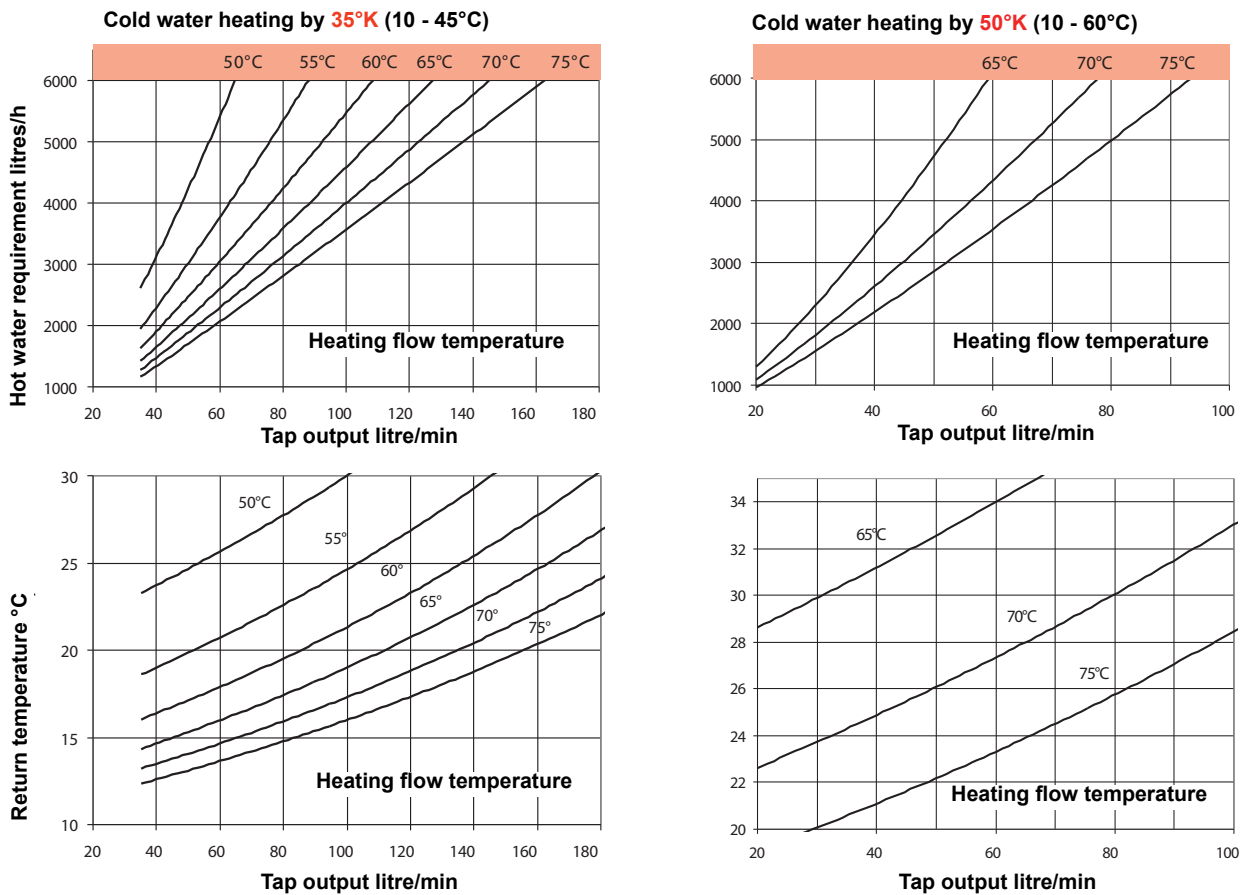
102 308 0	FWS-V500-60 domestic hot water circulation construction kit
102 308 1	FWS-V500-80 domestic hot water circulation construction kit

➤ Pressure losses FWS-V500-60

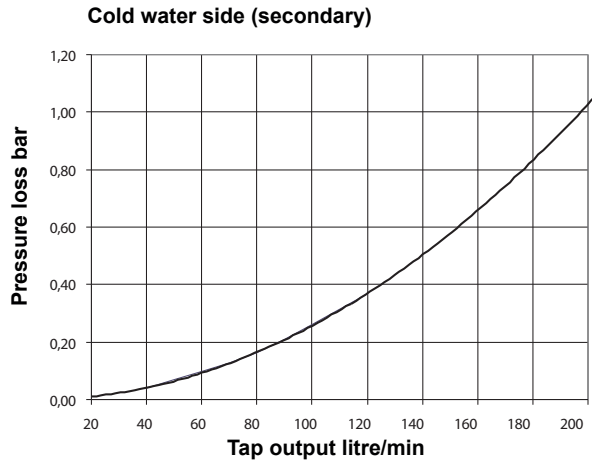
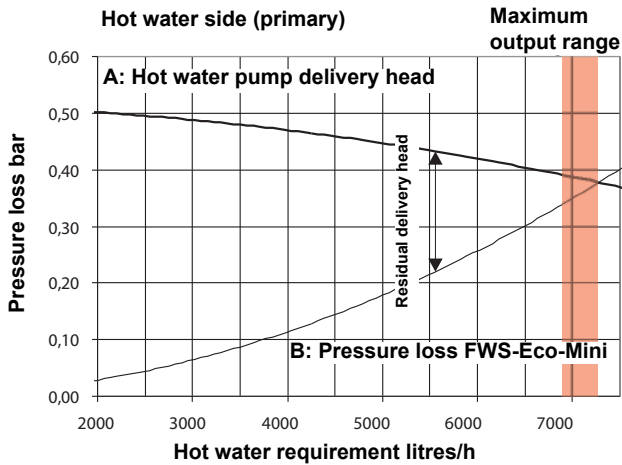


The difference between curve A and B is the recirculating pump's residual delivery head in FWS-V500; this is required to overcome the pipeline resistance between the buffer storage and FWS-V500.

➤ Output curves and return temperatures FWS-V500-60



➤ Pressure losses FWS-V500-80



The difference between curve A and B is the recirculating pump's residual delivery head in FWS-V500; this is required to overcome the pipeline resistance between the buffer storage and FWS-V500.

➤ Output curves and return temperatures FWS-V500-80

