

DHW module FW-EZ 40 / FW-E 40

for centralized DHW heating with flow principle



- ✓ with high-efficiency pumps
- ✓ with high-quality sanitary balancing valves
- ✓ all drinking water outlet going off to the top
- ✓ stable instrument holder made of galvanized sheet steel
- ✓ with counter pass piece
- ✓ design front
- ✓ cascades capable



Design front

Application:

Our DHW units FW-EZ 40 and FW-E 40 are heating the domestic water centrally and are supplying it via hot water pipeline to the domestic water tapping points. A buffer tank is necessary in order to provide the required heating water quantity for heating the domestic water! The DHW water is only heated when "Just in Time" is requested. There is no storage of hot water!

Water heating:

The DHW water is heated in the flow-through principle only during the request via a stainless steel plate heat exchanger. A special heat exchanger design allows high tap rates and a low return temperature to the buffer tank.

High efficiency pump:

The DHW volume flow (speed controlled) is delivered by a high-efficiency pump from the buffer tank to the plate exchanger for the heating of water.

Control function:

The central control element is the electronic controller. This ensures a constant domestic hot water temperature.

Sensors:

Fast and very precise control processes are made possible by the use of state-of-the-art sensors. A flow sensor according to the vortex principle, determines the flow rate and the hot water temperature. Accurate and fast reacting PT-1000 temperature sensors measure the temperatures of: cold water, buffer tank flow and circulation return.

Housing:

Stylish EPP insulating housing.

Circulation module (only for FW-EZ 40):

A drinking water high-efficiency circulation pump is controlled intelligently (according to pulse, time and temperature) and speed-controlled by the electronic control system.

Specifications		
Type:	FW-EZ 40 / FW-E 40	
Item No. :	1610003 / 1610001	
	Primary	Secondary
	Heating	Drinking water
Pressure rating:	PN 6	PN 10
Max. temperature:	110 °C	75 °C
Connection dimensions:	DN 25	DN 20
Connection threads:	1" female thread	1" male thread
Dimensions (WxHxD):	480 x 675 x 240 mm	
Modules		
1000202	KF30	stainless steel PHE

Performance characteristics	PI2*	PI1*
DHW capacity:	100 kW	90 kW
Mass flow primary:	1769 kg/h	1745 kg/h
Supply temperature:	70 °C	60 °C
Return temperature:	22 °C	16 °C
DCW / DHW temperature:	10 °C / 60 °C	10 °C / 45 °C
Tap performance:	28 l/min	36 l/min

* PI 1 = performance indicator 1
water temperature set to 45 °C
primary supply temperature 60 °C
cold water temperature 10 °C

* PI 2 = performance indicator 2
water temperature set to 60 °C
primary supply temperature 70 °C
cold water temperature 10 °C

DHW module **FW-EZ 40 / FW-E 40**

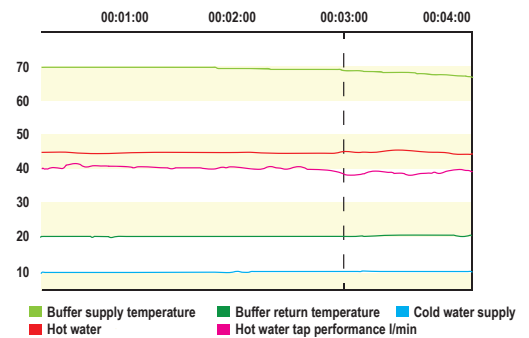
for centralized DHW heating with flow principle



Specifications	
Service:	<ul style="list-style-type: none"> easy-to-read, illuminated LCD display with full-text and graphic mode internationally understandable with up to 6 languages included self-explanatory operation: The assigned functions are shown in the display right above the respective input key easy and quick installation with the integrated setup wizard
Operating mode:	DHW control with circulation (FW-EZ 40) DHW control without circulation (FW-E 40)
Add. functions	Buffer charge, cascade
Plate exchanger:	Long thermal length, low pressure loss Stainless steel AISI 316, copper soldered
Piping:	Stainless steel AISI 316, 22x1 mm
Pump:	Heating pump WILO Para PWM 15/6 DHW circulation pump WILO Para Z 15/7 (FW-EZ 40 only)
Sensors:	HW temperature and flow: Sika VVX15 CW- / buffer- / circulation temperature (FW-EZ 40): Plug-in sensor PT1000/B/2 with cable
Insulating housing:	EPP, black
Dimensions (WxHxD):	480 x 675 x 240 mm
Delivery:	Pre-assembled, wired and leak-proof, packed in carton with operating instructions and mounting accessories



Performance diagram: Full load



FW-EZ 40 Item No. 1610003



FW-E 40 Item No. 1610001

Description

1	Temperature sensor DCW
2	Vortex sensor temperature and flow
3	Plate heat exchanger
4	Heating pump
5	Temperature sensor Z
6	Circulation pump (FW-EZ 40 only)
7	Backflow preventer
8	Fitting WMZ 130 mm
9	Direct measuring point WMZ

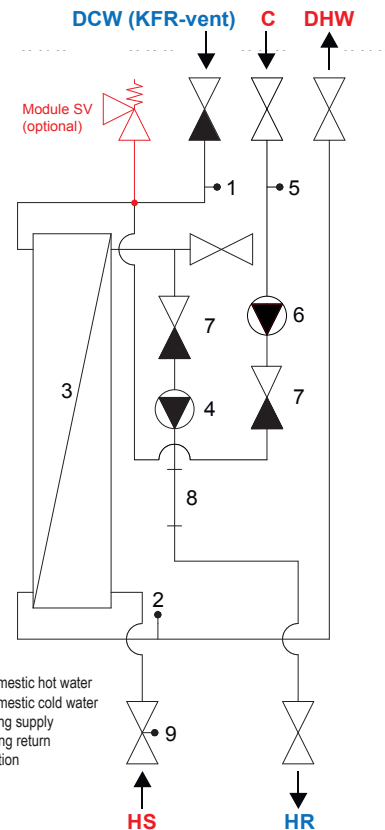


Image: FW-EZ 40