

# System 2 ECO

- Low heatloss
- Direct heating
- Electronic DHW controller with stepper controlled valve



KVM System 2 ECO is a hydraulic interface unit for central heating and domestic hotwater ready to install in apartments and single family houses which are connected to a district heating network. The unit is factory fitted with wiring and a preprogrammed controller. This will ensure an efficient and simple commissioning.

The Vision domestic hotwater controller is a stepper motor controller, designed for quick reaction time for different load cycles for domestic hotwater draw off. Furthermore the Vision controller includes features for energy consumption optimization in relation to standby or holiday modes.

Based on temperature sensors and a single flowmeter - the vision controller is able to adapt to the actual district heating supply leading to precise domestic hotwater temperatures.

In total the Vision controller leads to optimal comfort and low energy consumption which benefits the end user.

In this system the primary heating supply is brought directly to the heating system of the house. The amount of water is controlled by a pressure differential controller.

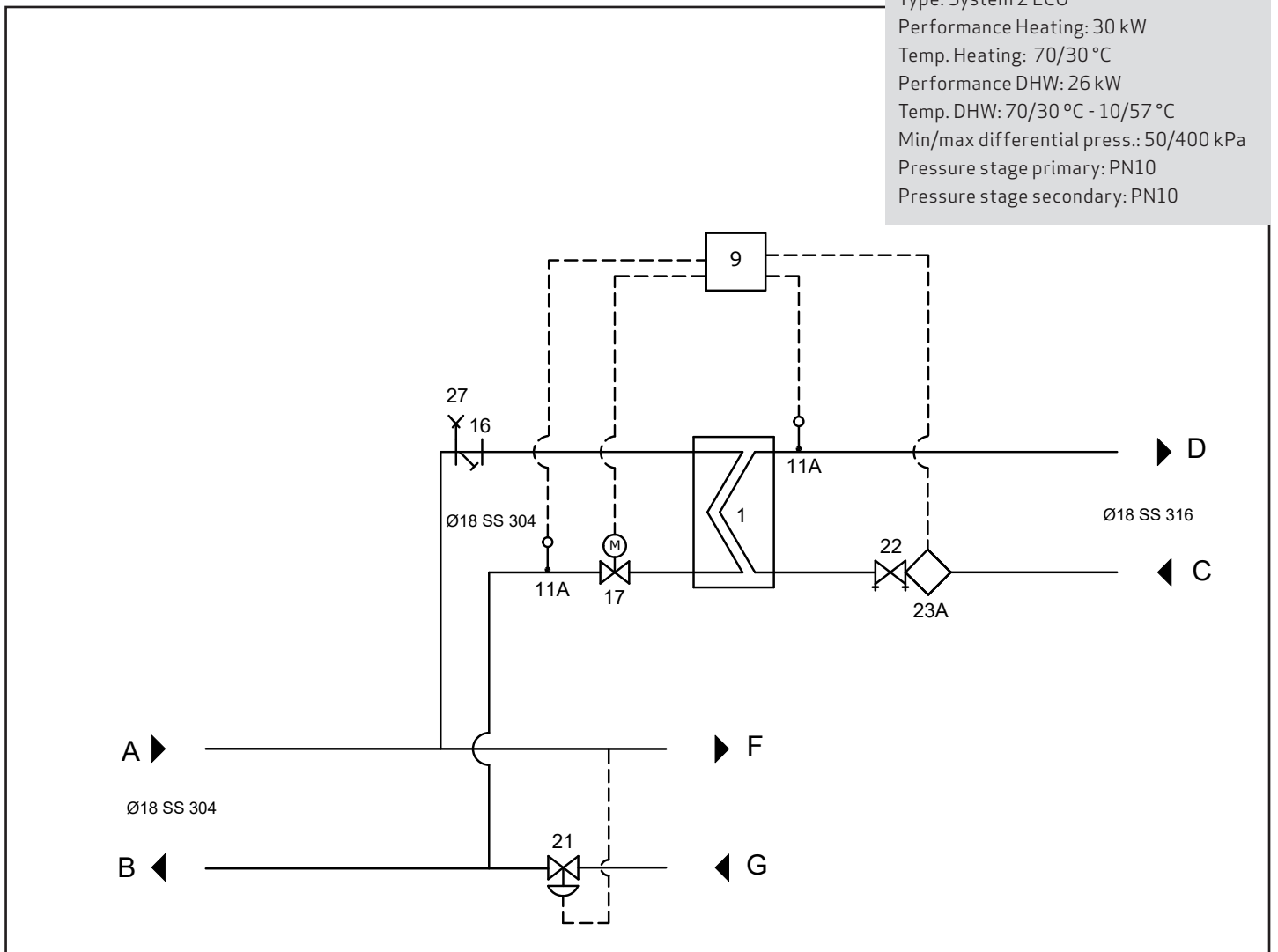
# Highlights

- Pre-insulated EPP cabinet
- Direct heating
- Electronic DHW controller with stepper controlled valve
- No P-band
- Energy saving features e.g. holiday mode / deactivation of "keep warm"
- Double wall heatexchanger
- Low heatloss
- Compact design

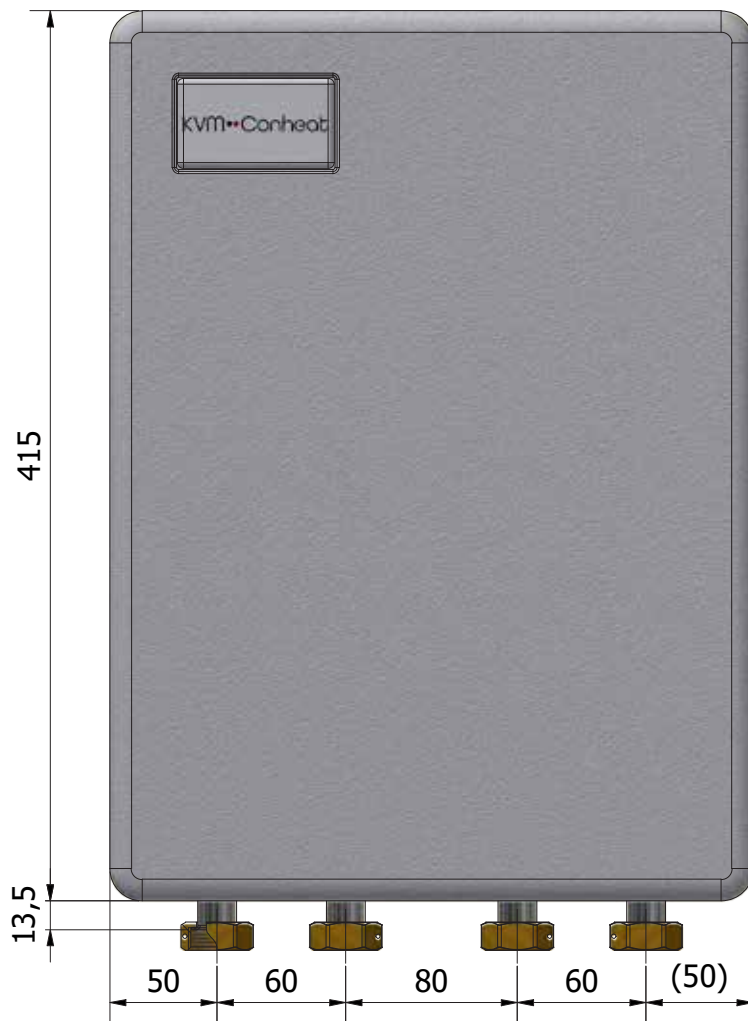
# PI diagram

## Specifications

Type: System 2 ECO  
Performance Heating: 30 kW  
Temp. Heating: 70/30 °C  
Performance DHW: 26 kW  
Temp. DHW: 70/30 °C - 10/57 °C  
Min/max differential press.: 50/400 kPa  
Pressure stage primary: PN10  
Pressure stage secondary: PN10



## Dimensional sketch



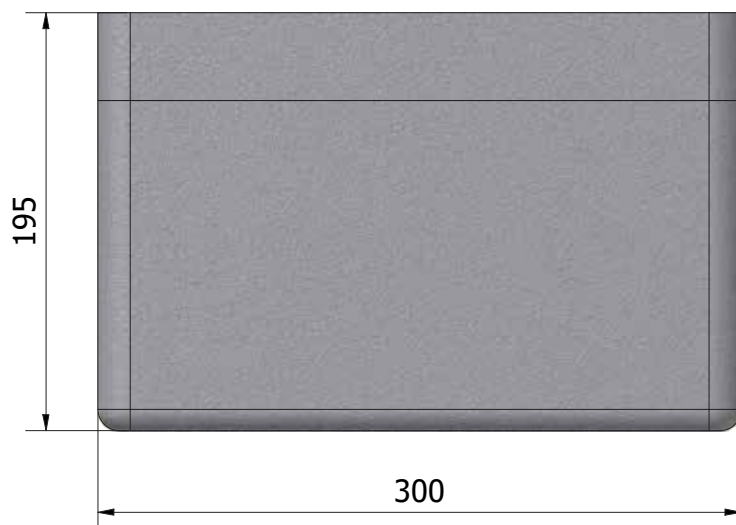
### Dimensions

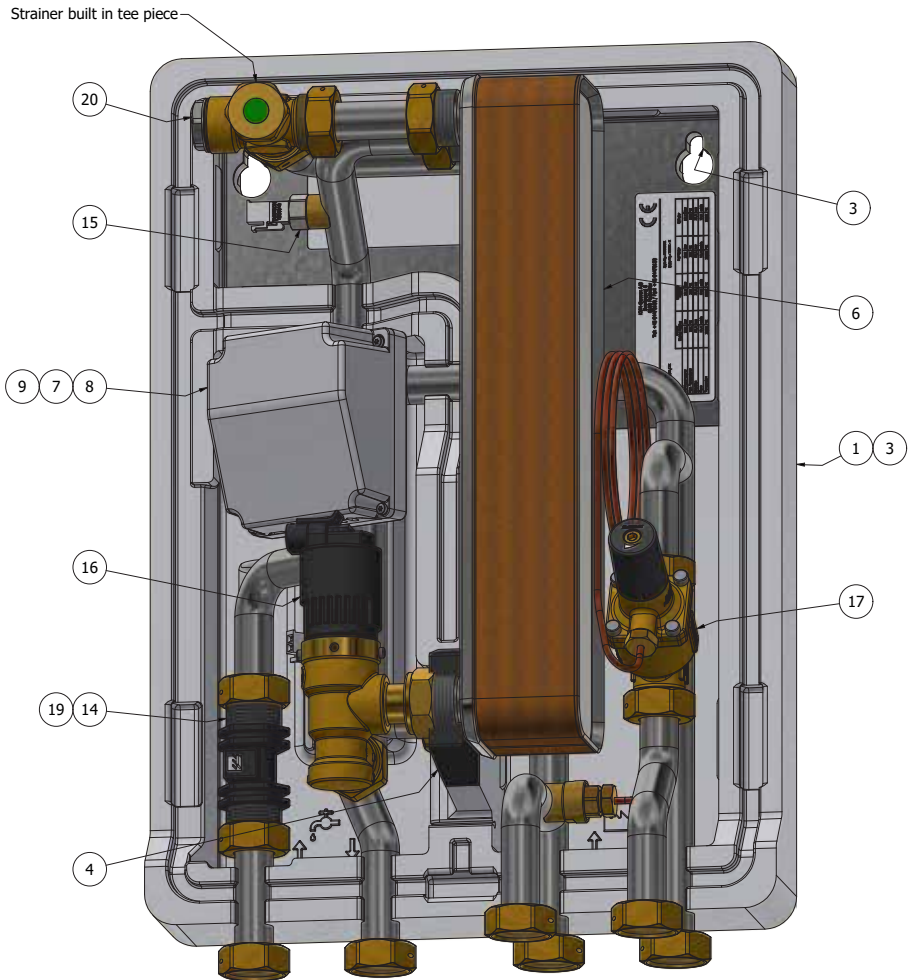
Height: 430 mm

Width: 300 mm

Depth: 195 mm

*The dimensions are including cabinet and connections.*





PARTS LIST			
No.	DESCRIPTION	QTY	STOCK
1	EPP cabinet part 1	1	103141
2	EPP cabinet part 2	1	103142
3	Keyhole for mounting	1	106470
4	Gasket	1	103143
6	Swep B8DWHx30/1P-SC-M	1	109486
7	Vision DHW PCB box - Part 1	1	106501
8	Vision DHW PCB box - Part 2	1	106502
9	Vision DHW PCB	1	106500
14	Honeywell Flow sensor - C7195B1001	1	105833
15	Tasseron Sensor TSD (NTC10) ø4,7x17mm	2	109440
16	Stepper valve (Max. ΔP=4 bar, 90° position)	1	109507
17	Frese PV Compact DN15 Kvs. 2,9 0,05-0,30 bar	1	104453
19	Flowrestrictor	1	100793
20	Air bleeder plus strainer	1	100990