



# APV Compakva VX36+ District heating unit

## Product description

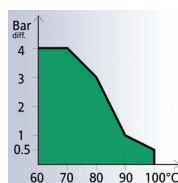
The APV Compakva VX36+ is a complete district heating unit for heating of domestic water and central heating. The unit has a heat exchanger for domestic water and central heating, ensuring optimum safety and comfort. The simple and extremely compact design makes the APV Compakva VX36+ the smallest unit of its type on the market.

- Innovative technology and design
- The smallest on the market
- Low operating costs
- The lowest power consumption on the market

## Application

The APV Compakva VX36+ can be connected directly to the district heating network at maximum flow temperature of 130°C. Operating conditions depend upon differential pressure and the temperature of the district heating water.

The graph illustrates operating conditions without the need for a differential pressure controller for the domestic water. The use of a differential pressure controller set at a maximum value of 40 kPa is recommended for levels outside the green area.



## Components and function

The APV Compakva VX36+ consists of the following main components: An APV multifunctional block, an APV plate heat exchanger, two thermostatic valves, a differential pressure controller, a pump and an expansion tank.

### APV multifunctional block

The multifunctional block functions as a pipe arrangement, cover, back panel and sensor accelerator. The special channel design combined with the position of the sensor in the multifunctional block accelerates the closing function of the valve. This contributes to low energy consumption and reduces operating costs.

### Differential pressure controller

The differential pressure controller ensures optimum operating conditions for the central heating.

### Pump

The pump on the central heating circuit circulates the water through the central heating circuit and the plate heat exchanger. The extremely energy-efficient pump features a built-in frequency converter that reduces power consumption by as much as 40% compared to traditional pumps, and eliminates noise.

### Temperature control

The APV Compakva VX36+ features temperature control of both domestic water and central heating. The domestic water thermostatic valve ensures a consistent tap water temperature. When the district heating unit is not in use, the thermostatic valve ensures a suitable idle temperature. This means that hot water is available within a few seconds, and unheated domestic water is not wasted. The thermostatic valve for central heating ensures a consistent central heating temperature.

### Domestic water circulation

The APV Compakva VX36+ is ready-fitted domestic water circulation installations ensuring hot water as soon as the tap is turned on, no matter how far the tap is from the water heater. Circulation pipes can be connected to the built-in 1/2" end caps - or outside the unit.

### Central heating safety equipment

The central heating system must be fitted with a safety valve and an expansion tank in accordance with local regulations.

### Domestic water safety equipment

The domestic water system must be fitted with a safety valve in accordance with local regulations. The multifunctional block makes it possible to remove the 1/2" end cap and mount a safety valve (pos.6).

**Note:** Safety valve, non-return valve and circulation pump on the domestic water system are not supplied by APV.

### Mounting

The APV Compakva VX36+ is designed for wall-mounting. Fitting is simple and the positioning of all pipe connections at pipe bracket distance from the wall facilitates a neat pipe arrangement.

### Cabinet

Cabinet for APV Compakva VX36+ is available upon request.

### Packaging

APV Compakva VX36+ comes in shock-resistant packaging.



Cabinet for Compakva VX36+

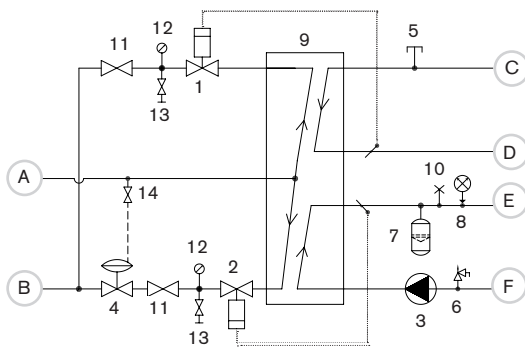
### Technical data and specifications

Domestic water system									
APV Type	District heating temperature	60°C / 19,9°C			60°C / 21°C				Cabinet
	Domestic water temperature	10°C / 45°C			10°C / 45°C				
	Total pressure loss (DH) kPa	Capacity kW	Domestic water l/h	No. of houses	Total pressure loss (DH) kPa	Capacity kW	Domestic water l/h	No. of houses	
Compakva VX36+	25	32,3	795	1	40	42,4	1043	1	Additional equipment

Central heating circuit					Measurements (without cabinet)				
APV Type	District heating temperature	70°C / 40°C			APV Type	Width mm	Height mm	Depth mm	Weight kg
	Domestic water temperature	60°C / 35°C							
	Total pressure loss (DH) kPa	Heating kW	Domestic water l/h	No. of houses	Compakva VX36+	430	485	335	26
Compakva VX36+	25	13	453	1	Cabinet	500	550	364	1

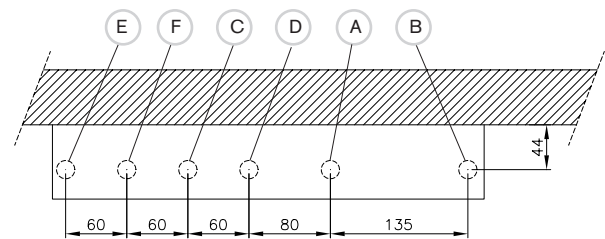
### Flow diagram



1. Thermostatic valve, domestic water
2. Thermostatic valve, heat
3. Pump
4. Differential pressure controller
5. 1/2" end cap for possible circulation pipe
6. Safety valve
7. Expansion tank
8. Mano thermometer

9. APV plate heat exchanger
10. Air vent
11. Shut-off valve
12. Thermometer
13. Drain
14. Mini ball valve

### Connections seen from above



- A District heating, flow forward
- B District heating, flow return
- C Cold domestic water, inlet
- D Hot domestic water, outlet
- E Radiator, forward
- F Radiator, return

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