



APV Kompakva TD36+ District heating unit

Product description

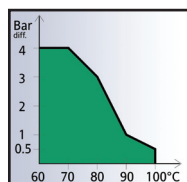
The APV Kompakva TD36+ is a complete district heating unit for heating of domestic water and for differential pressure control of district heating for direct systems. The simple and extremely compact design makes the APV Kompakva TD36+ the smallest unit of its type on the market.

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

Application

The APV Kompakva TD36+ 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. To secure a smooth and noise free operation the unit is equipped with a differential pressure controller.

The graph illustrates operating conditions without the need for a differential pressure controller. 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 Kompakva TD36+ consists of the following main components: An APV multifunctional block, an APV plate heat exchanger, a thermostatic valve, and a differential pressure controller.

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 thereby reduces operating costs.

Differential pressure controller

The differential pressure controller ensures optimum operating conditions for the thermostatic radiator valves.

Temperature control

The APV Kompakva TD36+ features temperature control for 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.

Domestic water circulation

The APV Kompakva TD36+ 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.

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.5).

Note: Safety valve, non-return valve and circulation pump are not supplied by APV.

Distance pieces for heat meter

The APV Compakva TD36+ is equipped with two distance pieces and sensor pockets making the mounting of a heat meter for either district heating forward or return possible.

Mounting

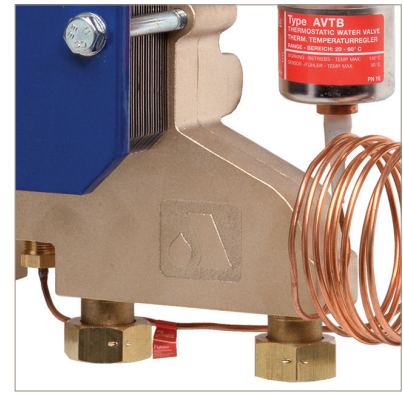
The APV Compakva TD36+ is designed for wall-mounting. Fitting is simple and the positioning of all pipe connections at pipe bracket distance from the wall facilitates a neat pipe arrangement.

Cabinet

Cabinet for APV Compakva TD36+ is available upon request.

Packaging

APV Compakva TD36+ comes in shock-resistant packaging.



Technical data and specifications

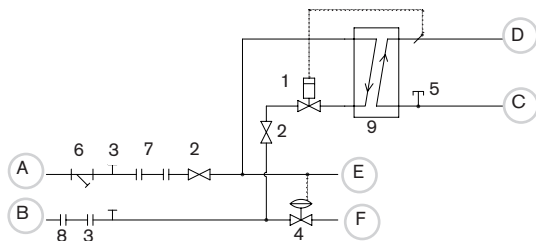
Domestic water system									
APV Type	District heating temperature	60°C / 19,5°C			60°C / 21°C			Cabinet	
	Domestic water temperature	10°C / 45°C			10°C / 45°C				
	Total pressure loss (DH) kPa	Capacity kW	Domestic water l/h	No. of houses	Total pressure loss (DH) kPa	Capacity kW	Domestic water l/h		No. of houses
Compakva TD36+	25	32,3	795	1	40	42,4	1043	1	Additional equipment

Measurements (without cabinet)				
APV Type	Width mm	Height mm	Depth mm	Weight kg
Compakva TD36+	400	390	205	16,3

Pressure level	PN16
Max temp.	130°C
Connections	3/4"
Materials	Red brass/stainless steel AISI 316

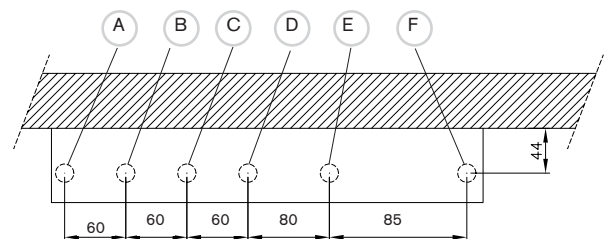
Heating capacity - examples			
Heating kW	Circuit Δ T °C	Pressure loss kPa	Flow l/h
10	20	10	430
15	20	19	645
20	20	32	860
25	25	32	860

Flow diagram



- | | |
|--|---|
| 1. Thermostatic valve | 6. Strainer |
| 2. Ball valve | 7. Distance piece for heat meter forward flow |
| 3. 1/2" connection for heat meter temperature sensor | 8. Distance piece for heat meter return flow |
| 4. Differential pressure controller | 9. APV plate heat exchanger |
| 5. 1/2" end cap for possible circulation pipe | |

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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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit www.apv.com.

SPX Corporation reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing.

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