

## Description

Compact heat substation is used for controlled heat exchange in district heating systems. The heat exchange is ensured between district heating pipeline system (primary system) and house and building heating pipeline network (secondary system). Two-way motorized control valve controlled by microprocessor controller, provides optimal heat exchanging according to outside temperature. The maximum flow rate can be limited to the specified value programmed with relevant control function. The plate heat exchanger, designed specially for district heating use, is available as compact brazed type or gasketed plate. Both types have different range sizes. Ultrasonic heat meter provides stable and accurate measurement and reading of all measured values. The compact heat substation offers a high comfort level and optimum energy utilization for customers. They could be easily connected in supervisory control and data acquisition systems (SCADA).

Compact heat substations are produced like standard products according to specified customers requirements and all technical conditions of local heat energy distributors.



Compact heat substations are available as small (RTP) and medium sized (KTP) with heat capacity from 20kW up to 500 kW. They are small, lightweight, with compact construction and easy to install in small and narrow spaces.

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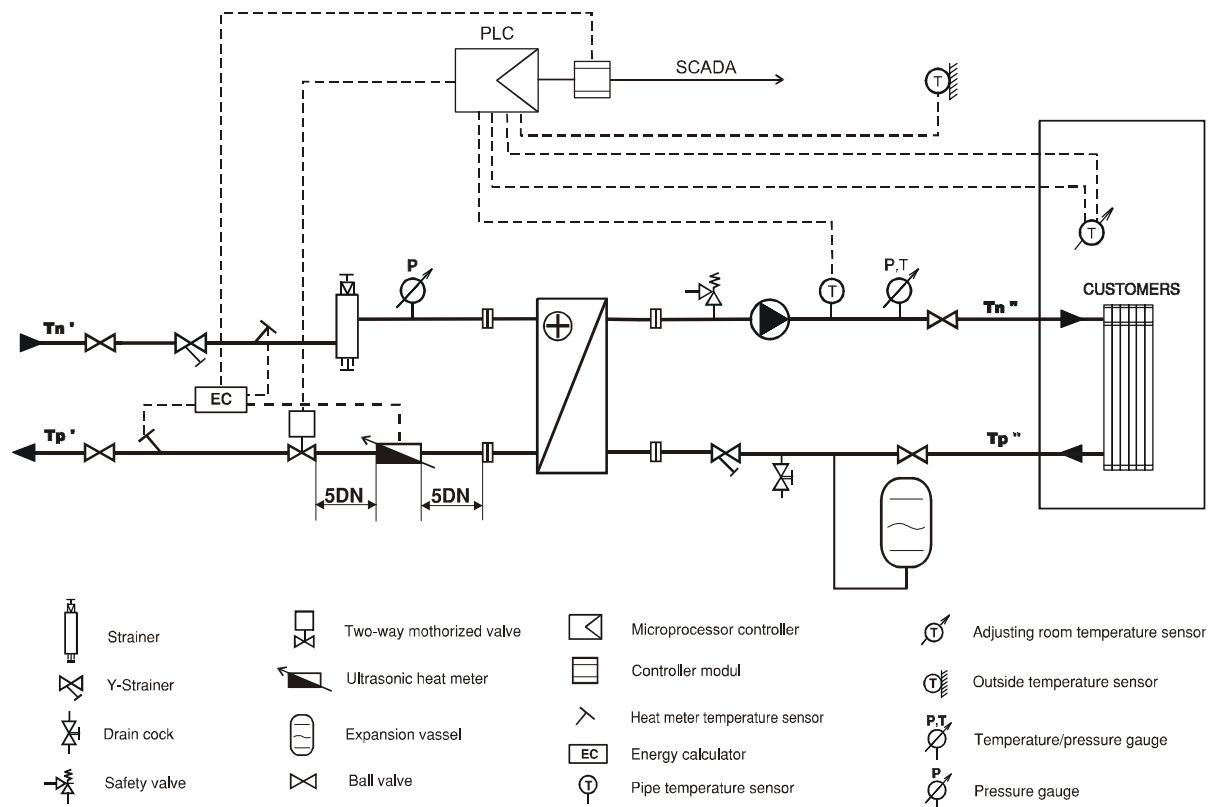
## Types and dimensions

Type	Capacity (kW)	Dimensions		
		Length	Height	Width
RTP	20-70	1400	1300	450
KTP-1	70-200	2000	1500	600
KTP-2	200-500	2500	1600	900

## Technical data

Fluid:	Warm and hot water
Supply temperature range in DHS:	110°C - 140°C
Return temperature range in DHS :	75°C - 80°C
Temperature range in secondary system:	90°C/70°C
Nominal pressure in DHS:	PN 16
Nominal pressure in secondary system:	PN 6
Heat meter:	Ultrasonic heat meter with energy calculator
Heat exchanger:	Brazed/gasketed plate
Circulation pump:	Energy saving pump
Control valve:	Two-way, motorized
Expansion vessel:	Closed welded
*DHS - District heating system	

### COMPACT HEAT SUBSTATION



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