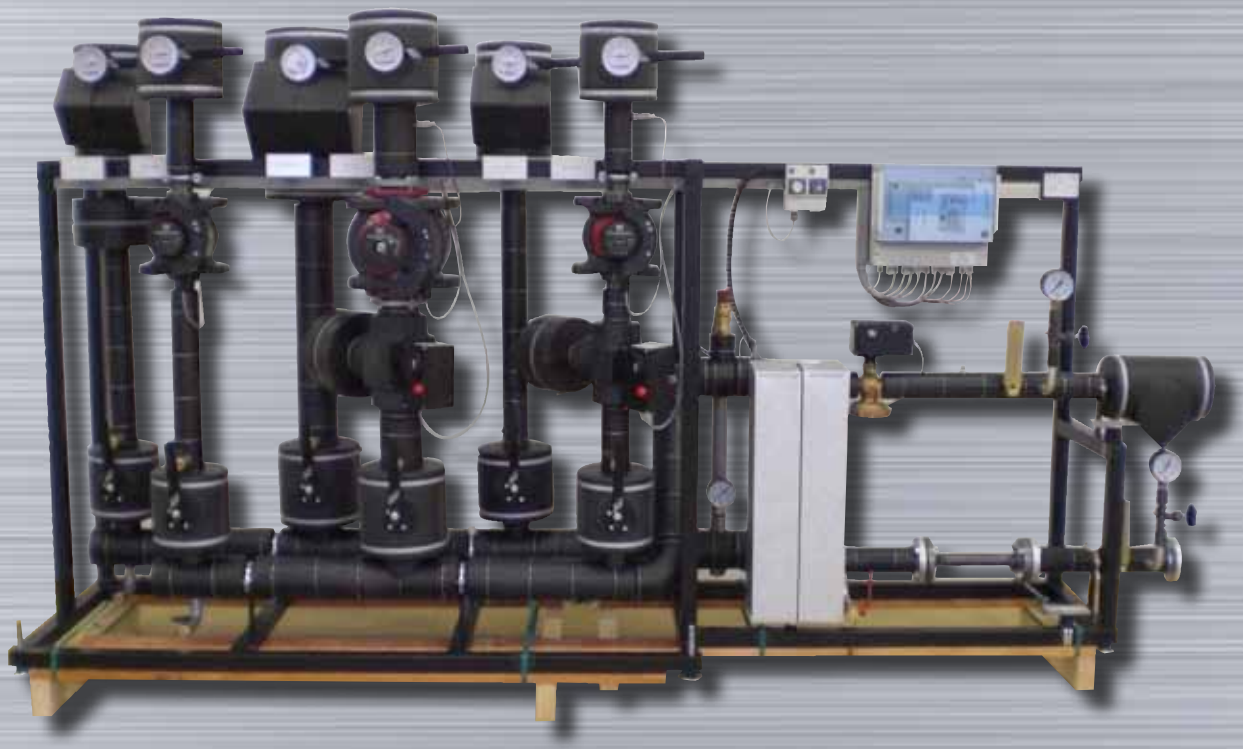
Compact District Heating Stations

For buildings

with and without Water Heating Systems

operating mode direct or indirect



For each district heating network and heating systems parameter, the stations are dimensioned and manufactured according to the safety orders, the requested grade of equipment, and customers individual demand.

Capacity range from i.e. 50 kw up to several MW.

Example: Operating mode indirect heating

Constructed with latest software and 3-D CAD

- individual adaptiv to any demand
- clear arranged valves and components
- optimal framework measures
- short and carefull construction time means short time of delivery

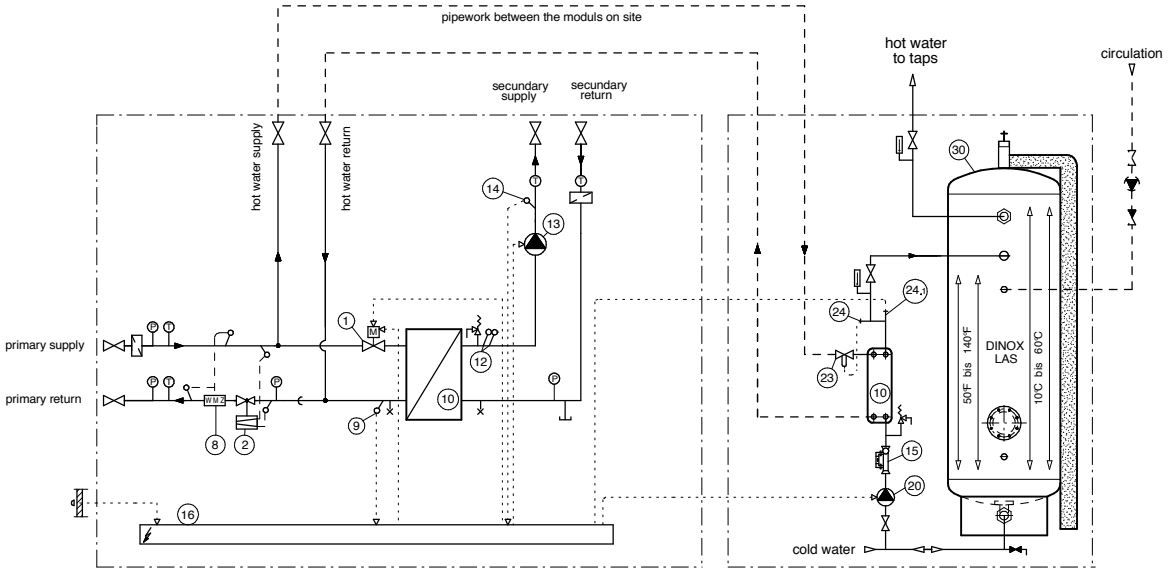
Example:

Scheme of compact district heating stations, operating mode direct with hot water system KWS-K

DMS-Compact-District-Heating-Station welded finish in a painted framework, vibrationless mounted pipework, electric wired, consisting of braced stainless steel heat exchanger (10) weather controlled regulator (16) with hot water priority (24.1) and return temperature limiter (9).

Primary motor valve (1), differencial pressure controller with flow limiter (2), and fitting piece for heat meter (8). Secondary temperature and overheat safety controlled (12), heating water circulation pump (13), and flow line sensor (14).

DMS-KWS-K-System consisting of DMS braced plate heat exchanger (10), water temperature regulator (23,24), charging pump (20), setting valve (15), and DINOX hot water storage tank (30), welded stainless steel pipework with gun metal fittings, thermometer, and safety valve, mounted ready for use.



detailed designed to customers request - tailor made pre-mounted and wired

DMS-KWS-K-Systems consisting of braced plate heat exchanger ⑩ water temperature regulator ㉓㉔ charging pump ⑳ setting valve ⑮ and Dinox hot water storage tank ㉚ welded stainless steel pipework with gun metal fittings, thermometer and safety valve, mounted ready for use.

Compact District Heating Stations

Questions to be able to design the optimal heating station:

Company: _____ Date: _____

Project: _____

Please answer as much questions as possible. For unanswered questions we try to use realistic assumptions.

1.) District heating company: _____

2.) Operating mode:	indirect	direct
heat system	☐	☐
hot water	☐	☐
ventilation	☐	☐

3.) Primary:

temperatures (winter)	flow line _____ °C	return _____ °C
temperatures (summer)	flow line _____ °C	return _____ °C
rated pressure	PN _____	
pressure difference	max. _____ kPa,	min. _____ kPa
heat meter	manufacturer_____	
	☐ fitting piece	☐ with heat meter

4.1) Secondary:

rated pressure	PN _____
Relief pressure of safety valve	_____ bar

Compact District Heating Stations - part 2

4.2) Heating circuits:	HC 1	HC 2	HC 3
capacity [kW]	_____	_____	_____
with motorvalve	yes*/no*	yes*/no*	yes*/no*
temperatures flow line/return	_____ C°	_____ C°	_____ C°
residual heat capacity heating circuit pump [kPa]	_____	_____	_____
heat measurement	yes*/no*	yes*/no*	yes*/no*

5.) Heat control system: manufacturer _____ type _____

6.) Hot water system:

☐ apartements ☐ hotel ☐ hospital ☐ old people home

others see separate question sheet

pipework

	galvanized	copper	stainless steel	plastic
cold water	☐	☐	☐	☐
hot water	☐	☐	☐	☐

7.) Maximum measures:

	width	height	depth
transportway	_____ m	_____ m	_____ m
place to installation	_____ m	_____ m	_____ m

8.) Additional remarks: _____

_____

_____

_____

_____