

GST



Heating substation for district heating

GST substation is the number one choice for connecting buildings to the district heating system. High product quality is guaranteed by solid expertise on district heating, efficient engineering and installation combined with competent functional and visual design. The substations are introduced to the market by well known professionals of district heating.

Heating substation for district heating

For space heating, air conditioning systems and domestic hot water

The GST substation is suitable for use in both new buildings and renovation projects.

The substation is provided with brazed or gasketed – world top class plate heat exchangers with heat surface plates made of stain less steel. GST substation is reliable and most efficient compared to its size.

GST substations are light-weight and have a compact construction. The substations are manufactured using standard components, thus enabling short delivery times. Other features include easy transportation, installation and the fact that all components are readily accessible for inspection and future service.

Compact construction and easy installation

The GST substation is installed on the floor using a platform with adjustable legs. At the installation site, the unit's pipes are connected to the district heating, heating, air conditioning and hot water systems. The GST substation only requires a power supply, installation of the outdoor sensor, and cable connections for the necessary alarms. The GST substation is then ready for use.

GST Heating Substation – optimized properties delivered with short delivery time

GST substations are dimensioned with the knowledge based on strong experience. This results to a product which fully meets the customer demands and expectations. As our customer You get a substation with optimized properties, manufactured from well known quality components and materials. This means reliability – long and carefree operation time for one of the most important elements in the building's heating system. Not only is our substation technically very competitive, you will have your new GST substation very rapidly at your disposal. Short delivery times are an important part of our business.

Normative dimension and weight chart of 2-3 circuited GST heating Substation

DHW [kW]	Heating [kW] 115-45 / 40-70	Heating [kW] 115-65 / 60-80	Heating [DN]	Cold/warm water [DN]	DHW circulation	Length [mm]	Length [mm] if 3 circuits	Height [mm]	Depth [mm]	Weight [kg]	Weight [kg] if 3 circuits
90	61	41	32	22	22	1000	1650	1250	600	78	107
150	111	74	40	28	22	1100	1750	1250	600	84	116
200	150	100	50	35	22	1150	1800	1250	600	90	125
200	211	141	50	35	22	1150	1800	1250	650	95	133
300	250	166	65	42	28	1250	1900	1400	650	114	161
400	300	200	65	54	35	1400	2050	1400	700	135	193
500	411	274	65	54	35	1500	2250	1600	700	145	208
710	710	473	80	64	42	1600	2400	1900	800	220	320

Fittings

The factory-made, 2-circuited GST substation contains the following standard fittings:

- Insulated, brazed or gasketed plate heat exchangers
- Electronic controls
- Circulation water pumps for heating and domestic hot water systems
- A control box for pumps, containing the main switch, motor protection switches, warning lights and alarm buttons
- Shut-off and balancing valves
- Strainer
- Filling valves for heating systems, feeding valve for cold water and valves for the hot water circulation pump
- Thermometers and manometers, the thermometers can be replaced with heat sensors if the control unit has the required features
- Internal electrical connections

The GST substation and its standard accessories conform to the specifications of Association of Finnish Energy Industries (Energiateollisuus ry) and the Pressure Equipment Directive 2014/68/EU. The heat exchangers used in it have been approved in compliance with the Pressure Equipment Directive 2014/68/EU (CE), as well as with the DNV regulations.

For a quotation, please supply the following information:

- Heat output
- Temperature programmes
- Permitted pressure losses for the exchangers
- Primary pressure difference available
- Pump heads or pressure loss in the house pipe work for space heating.
- Domestic hot water circulation flow
- Circuit diagram or other information on the fittings required and on the scope of delivery if a substation which does not conform to the guidelines of the Association of Finnish Energy Industries (Energiateollisuus ry) is required.
- Dimensions of the facility for the unit
- Sizes of smallest openings through which the unit has to pass during transfer to site

HögforsGST International heating expertise

HögforsGST Oy specialises in the manufacture, sales and marketing of high-quality heating systems. The company's strong expertise on heating systems reaches beyond Finland. Our competence is based on our in-depth experience in production, line manufacturing, high-volume customisation and project production as well as familiarity with the HVAC acquisition channels and logistics both in Finland and abroad.

Our business has always been based on determining sufficient operating requirements on the market, customer-orientation and reliability. Equally important is our uncompromising approach with the high quality of our products and services.

We reserve the right to make changes.