

# Gebwell district cooling substation

## - energy efficient cooling of properties

More and more in Europe, especially in Northern countries like Finland, the cooling of properties is being centralized. The principle of district cooling system is similar to that of district heating. In district cooling, cold is produced in centralized plants, from where it is transported in form of water in pipeline network and delivered to consumer homes, where is subsequently used for cooling.

District cooling systems can serve different kind of properties, including offices, apartment buildings, hotels, sports fields, etc.

District cooling systems are much more efficient than conventional air conditioning systems, as worked out heat by cooling can be centrally disposed of and re-used. This way the system does not only save money, but also reduces greenhouse gas emissions.

In conventional air conditioning systems the unneeded heat in most cases is thrown in the air and not used. In district cooling the excess heat is gathered from the consumer to energy company's district cooling water and reused for district heating.

For the distribution of cooling in buildings special cooling

substations are used, distributing the right amount of energy in the building. G-Power substation units, which are adapted for cooling, can be used for this purpose. The cooling can be distributed by using local fan coil units, central air cooling system, chilled ceilings and other systems.

- Improved energy efficiency
- Comfort and convenience for consumers
- Lack of noisy equipment in a window or on the roof
- Environment protection
- Reliability
- Reduction of costs in construction phase
- Improving building's aesthetics



- Manufactured in Finland
- High quality components
- Brazed or gasketed plate heat exchangers
- Light weight and compact design
- Easy to hauling, installation and maintenance

### Technical values

Design pressure	PN 16 (PN 25)
Electrical supply	230/400 VAC