District heating

Infrastructure solutions for the public space

Danish quality & design since 1921

Technical cabins

Energy efficiency for the transition

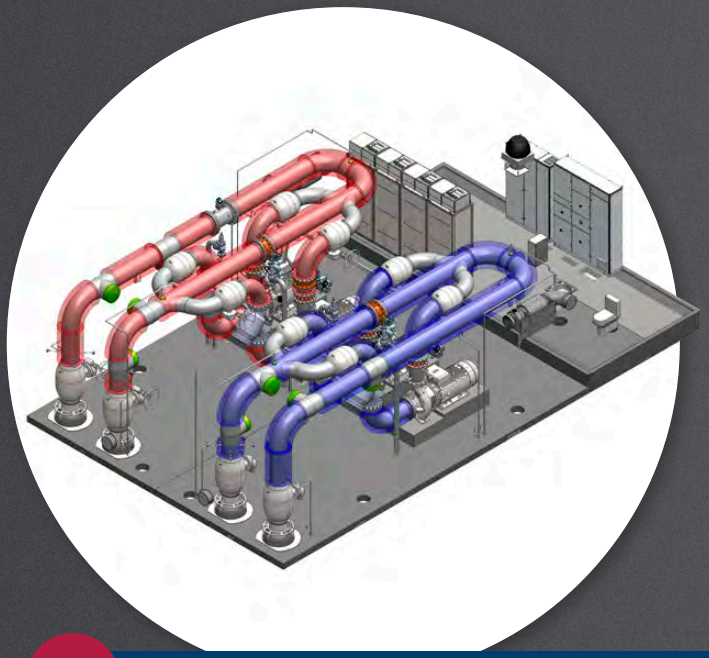
Modern district heating is the energy-efficient choice of heating in urban areas. The roll-out of district heating is central to the green transition and the conversion from the use of gas and other fuels. But how the roll-out is achieved merits attention: Economy, flexibility and speed are key factors.

Priess District Heating A/S

Priess helps streamline existing plants and create highly efficient new plants. Priess delivers complete pump, exchanger and booster stations to optimise the grid and thus deliver heat to consumers. The solution comes in the form of intelligent plug-and-play stations that are tailored to the individual installation.

- **Product development**
- **Customised solutions**
- **Close dialogue with product managers and design engi-neers**
- **Expert knowledge in the field**

PRIESS



1 3D DESIGN MODELLING

All products are drawn as 3D models before production starts. This provides great security for you as a customer, because you can participate in the entire design phase and see the final product before the start of prefabrication.

These drawings are further used to carry out our prefabrication of individual components.

Preparation of the station's function is extremely important, which is why we also offer the preparation of PI-D diagrams. Once this is established, a component list of function and control signals is generated.

It is now quite easy to define which controls should be built into the panel. The control panel is produced and the PLC is programmed with the set parameters from the PI-D diagram. The station is now ready to be connected to the SRO-SCADA system.

2 FUNCTION & CONTROLS

3 INSTALLATION

The station is built in several parallel lines to ensure consistently high quality and, not least, to reduce delivery time.

We see the entire station as a modular solution, which consists of several parts that are built independently from each other and which are eventually put together as a building set consisting of the technical cabin, concrete structure, piping and technical production, insulation work, electricity and controls.

4 DELIVERY AND OPERATION

The finished district heating station is delivered directly on site. Here, the statioan is connected to the customer's piping system and electricity supply (Plug & Play).

The station is now ready for operation.

Benefits

1 More people get the benefits of district heating

The solution enables low-cost and environmentally friendly district heating to be delivered to areas that do not currently have district heating.

2 Operating savings

The solution provides the plants with economies of scale either by being able to expand the supply area and get more consumers on the pipeline system or by improving the pressure conditions on an existing district heating network.

3 Greater security of supply

If the pump itself is combined with a shunt pump (also called a mixing shunt), the flow water temperature is lowered. The loss of pipeline decreases and the pressure ratios improve.

4 Installation savings

The Priess pumping stations are prefabricated with pumps, fittings, cabling and insulation – and delivered directly to the site of use – complete and ready for operation.

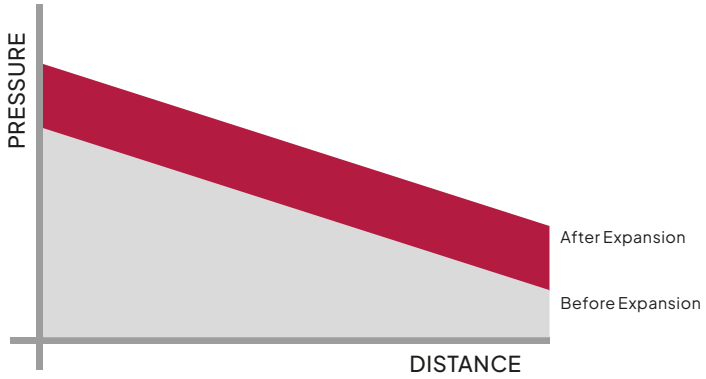
5 Better environment

C02 – emissions are considerably lower from district heating than from other fuel sources. Thus, when more consumers join the district heating network, C02 is saved – and energy saving points are earned.

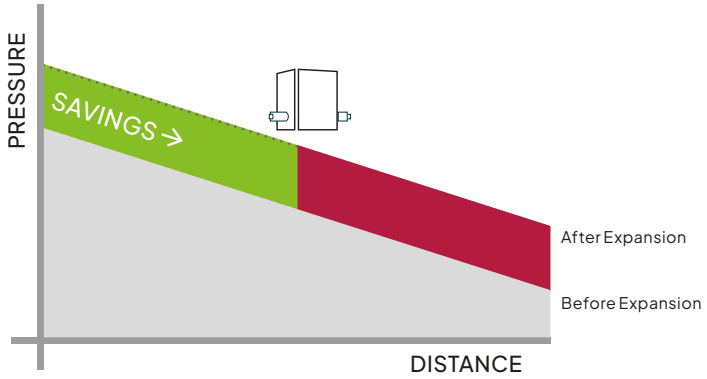
6 Complete service from design to delivery on-site

We undertake the project management for the stations and the installation preparation.

Without Pumps



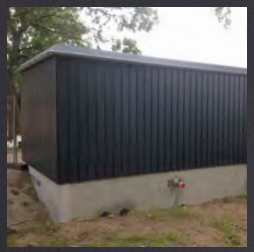
With Pumps



There are two ways to compensate for pressure loss in the district heating network – for example, when the grid is expanded. There is the traditional way in which the pressure is raised from the central pump – and thus throughout the grid. And then there is the Priess way, where smaller customised pumping stations are deployed in strategic places on the network, so that the pressure is only raised where it is needed. This creates savings.

Why choose Priess ?

- Quick installation and commissioning on-site thanks to Plug & Play technology
- Savings on construction costs with a fast ROI
- Compact design that is easy to maintain
- Operational savings
- Flexible components and design options
- Choice between compact or large walk-in stations to suit your needs
- Digitization and monitoring of the station and network
- Improved security of supply
- Full documentation and CE certification
- Option for acceptance and virtual inspection (FAT test)
- using VR glasses.



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