



# Arriving as planned

Our pre-assembled substations arrive fast  
- with your local specifications on board.

# Your next station

When planning a new journey, straightforward connections and fast arrival is what it's all about.

The same can be said for your next district heating journey. With Danfoss pre-configured substations, you get ready-to-go solutions built for easy delivery and installation. Keeping your project on track.

DSA 1 MINI, DSP MOD@ or DSE FLEX are made to set high standards for energy-efficient system performance. While their compact, lightweight designs streamline transportation, save space in the heating room, and simplify maintenance.

Choose Danfoss for your next station.

**Fit for your system.  
Arriving as planned.**



With only quality Danfoss components on board, our pre-configured district heating substations bring market-leading quality and extensive compatibility to your project.

**Including:**

- Danfoss MicroPlate™ heat exchangers for high efficiency and long lifetime
- ECL electronic controller for precise heating (HE) and domestic hot water (DHW) control
- Access to Leanheat® Monitor for remote monitoring, control, and optimization

# Get on board

Danfoss' pre-configured indirect district heating substations—your express service to energy efficiency, service friendliness, and reliable components.



## User-friendly design that supports your schedule

Our compact and lightweight substations are designed for ease of movement and installation:

As pre-configured solutions, DSA 1 MINI, DSP MOD@, and DSE FLEX arrive fast, while their compact/light nature makes them easy to transport (euro pallet) into the heating room

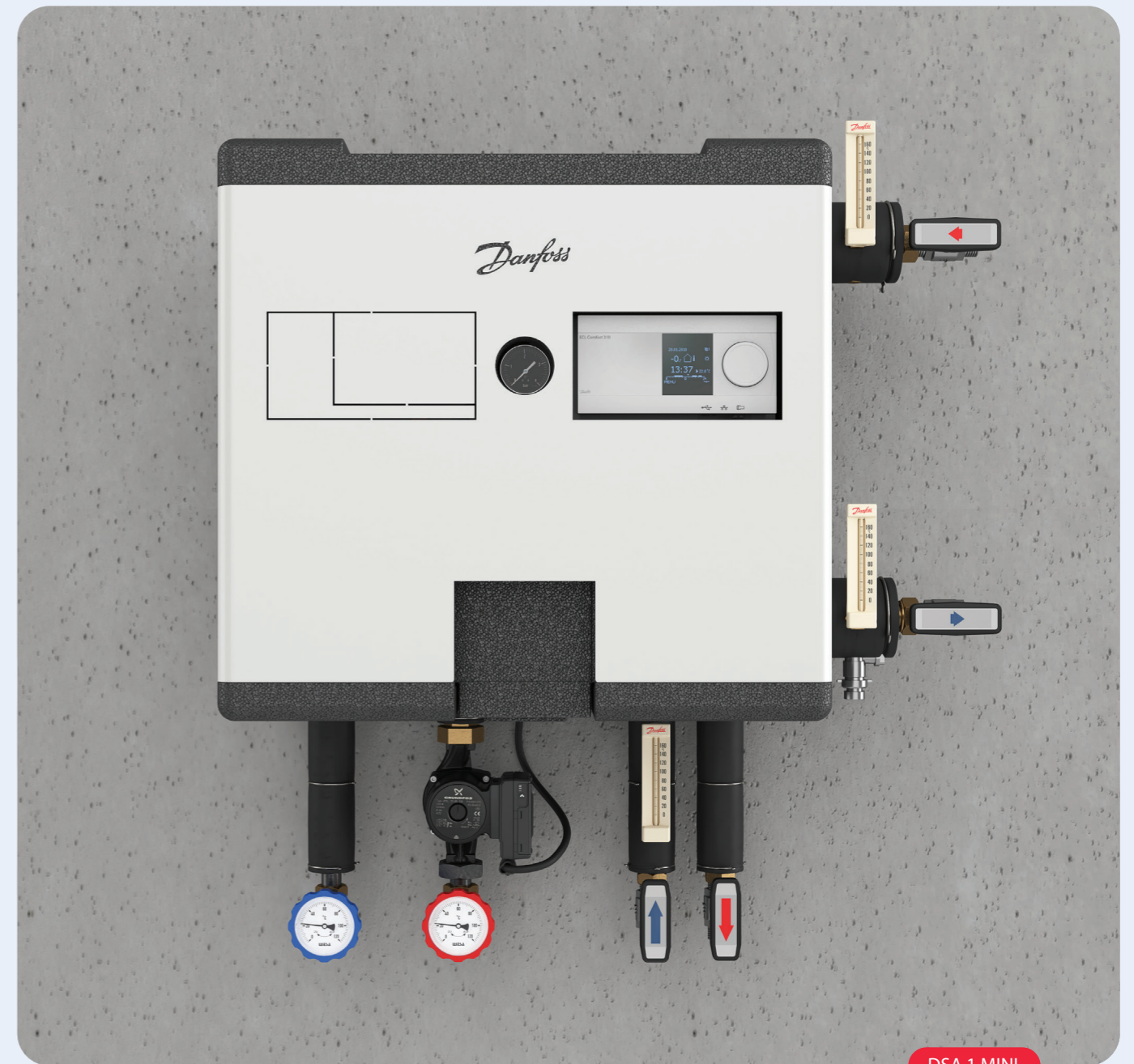
- Ready for swift installation (e.g., easy wall mounting and piping connections, left/right side pipes, and low connection height depending on variant)
- Space-saving design to reduce footprint in the heating room and reliable operation
- All Danfoss substations and heat exchangers are manufactured according to European Pressure Directive PED 97/23/EC



## Energy efficiency by high system performance

Designed to set high standards in energy efficient system performance. This is done by offering:

- Electronic ECL Comfort controller for control of the heating and domestic hot water (DHW) circuits
- Access to Leanheat® Monitor enables remote diagnostics for troubleshooting, setting of parameters, and preparation of commissioning reports
- Brazed MicroPlate™ heat exchangers with patented heat transfer plate technology
- High efficient A-rated circulation pumps
- Insulation options (market specific)
- All Danfoss control components—fully integrated and tuned to ensure optimal performance



DSA 1 MINI



## Service friendliness and warranty

- Easy front-side access to all key components enables trouble-free maintenance and time-saving servicing
- Advanced gasket system – for safe and leakage-free primary side pipe connection
- Only one partner to contact in case of technical support and service
- Extended warranty options (market specific)



## A complete solution delivered by one recognized supplier

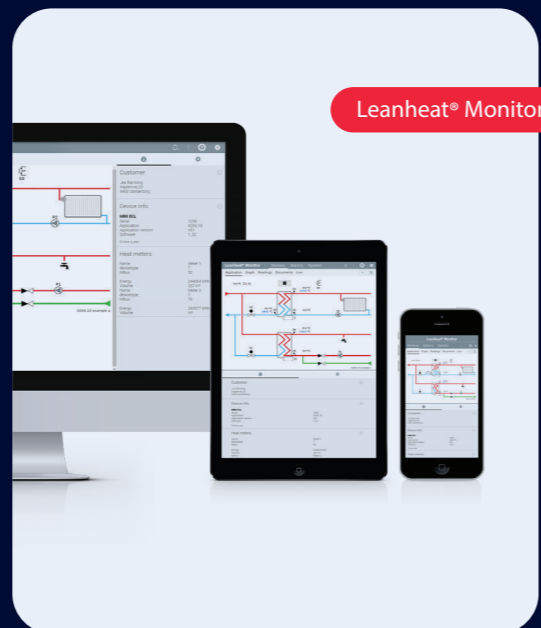
- The substation is equipped with high quality Danfoss components, which are tested and optimized for safe and reliable operation



## A safe digital journey

Danfoss Leanheat® Monitor is our web-based SCADA software application hosted in Microsoft Azure for district heating systems. Leanheat® Monitor is built on strong bases of already established Danfoss solutions with new and improved features for remote monitoring, control and optimization of your district heating.

A reliable and stable software solution brings you a cost effective and energy efficient management and lays the foundations for a connected future of your district energy system. Leanheat® Monitor is offered as a hosted SaaS (Software as a Service) solution. This means that Danfoss takes care of all maintenance, backup and security updates of the system. Customers can access the system from any internet connected PC or mobile device and remote control and monitor the parameters settings in the controllers of our pre-configured substations.



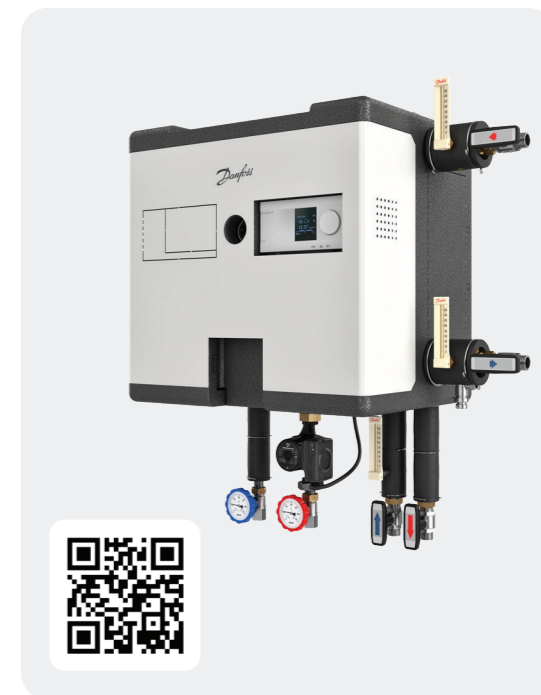
Leanheat® Monitor

### DSA 1 MINI

## Next station: Change for configurable construction and an easy fit

Ready for use in residential, commercial and industrial buildings, DSA 1 MINI is an indirect, modular district heating substation with high flexibility. For high standards in heating, floor heating, air conditioning and with an option of connecting DHW substations.

- Capacity range up to 150 kW (determined by temperature level, allowable pressure drop and local regulations)
- Complies with more than 90% of all technical connection requirements of typical district heating networks
- Modular construction provides an easy combination for a 3-circuit substation
- Fully insulated unit ensures optimum energy utilization.

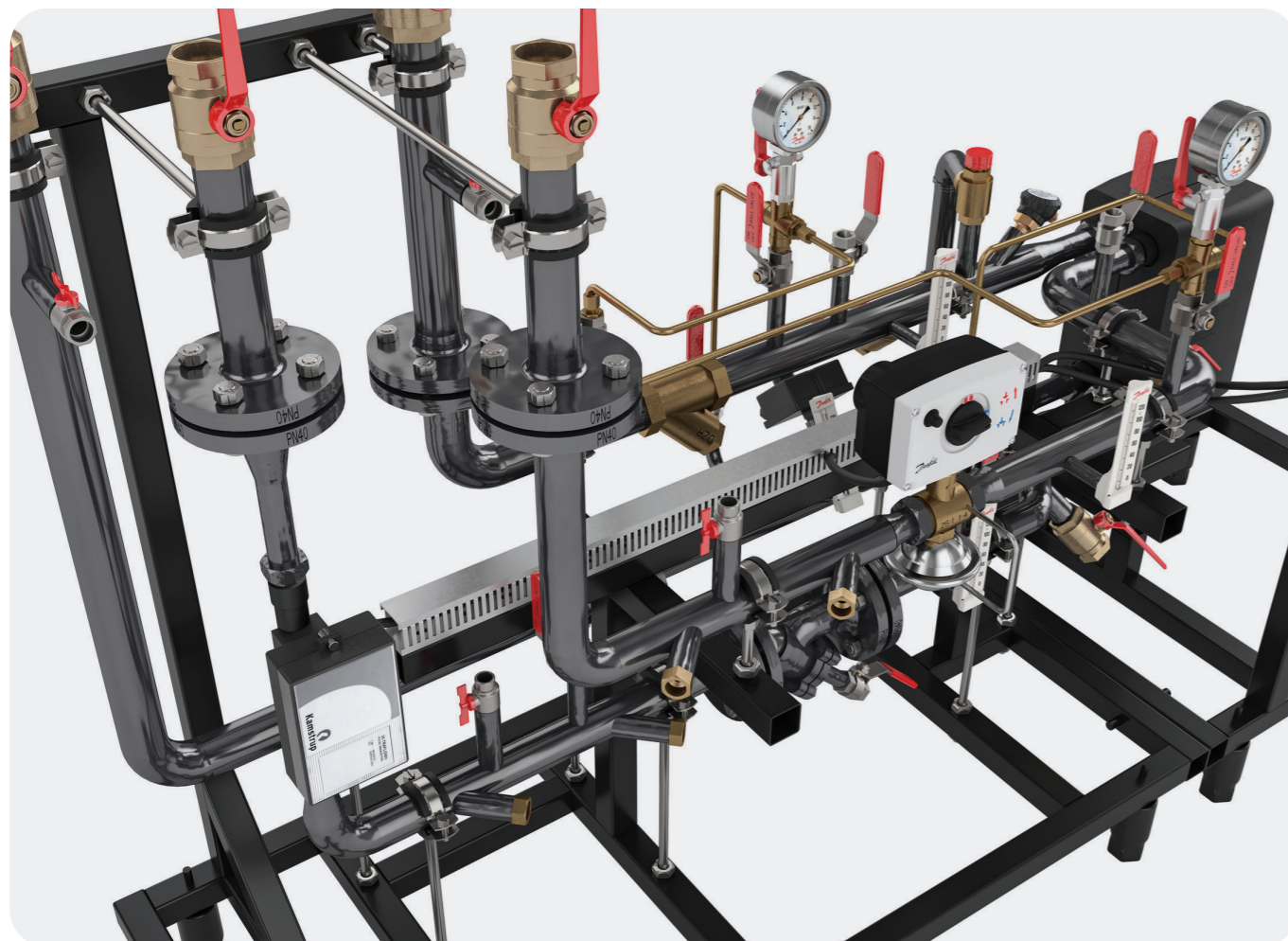


DSP MOD@

## Next station: Change for modular construction and widespread compatibility

The DSP MOD@ substation from Danfoss is designed for use in indirect heating applications with single or double heat exchanger configuration. A centralized DHW system or heat interface unit can be connected to the secondary side of the substation.

- Capacity range up to 1500 kW heating (HE)
- DSP MOD@ is applicable for heating multifamily houses, commercial and industrial buildings
- DSP – Danfoss Substation Prefabricated
- MOD@ - Modular and Digital



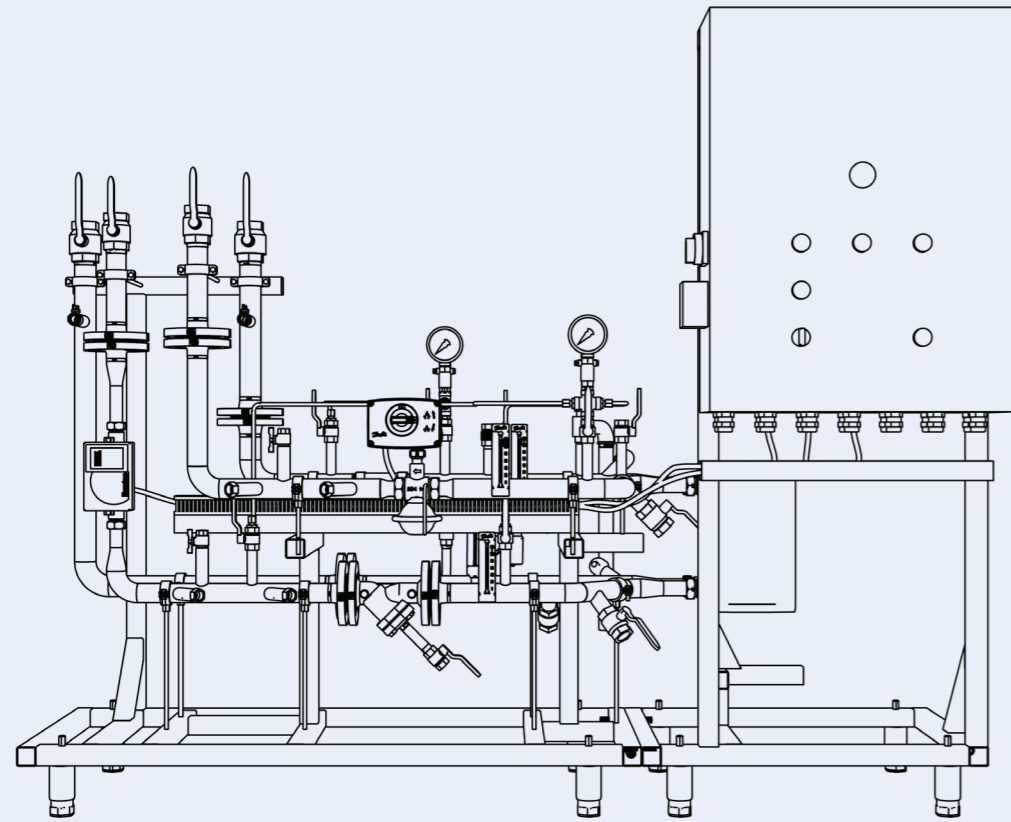
DSE FLEX

## Next station: Change for flexible applications and hassle-free setup

Designed with flexibility in mind, DSE FLEX suits various water-based heating systems in multifamily residential buildings, as well as commercial and industrial buildings. Supported by application-dedicated 3D drawings from the Danfoss engineering team, offering lightweight design and hassle-free installation.

- Capacity range up to 560 kW HE and 590 kW DHW (determined by temperature level, allowable pressure drop and local regulations)
- Flexible design that facilitates 1, 2 and 3 circuit substations (based on customer requests and required applications, modules can be combined further for more circuits)
- Designed for fast and safe transportation (light profile, compact size, floor mounted)





DSP MOD@

## Flexible station design saves you space; quality keeps you on track

DSA 1 MINI, DSP MOD@, and DSA FLEX feature Danfoss and other quality components throughout, including the auxiliary equipment. From pumps and three-way mixing valves to pressure gauges, thermometers and more. It means your new station runs as planned, with seamless installation, long-lasting performance, and reliable servicing.

As indirect substations, DSA 1 MINI, DSP MOD@, and DSA FLEX are compatible with the majority of networks. They can be delivered without an energy meter and fully operational to further support flexible installation, so that installers or end-users can select their preferred option at a later stage.

To drive high efficiency, air vents and strainers keep air bubbles and impurities from entering the heat exchanger. Heat transfer monitoring and control is ensured with high-quality sensors and control valves. Additionally, reliable and long-lasting shut-off and drain valves elevate safety when DSA HOME, DSA WALL, and DSA FLEX require service.

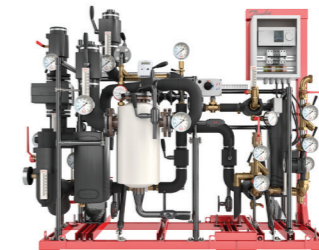
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## All aboard

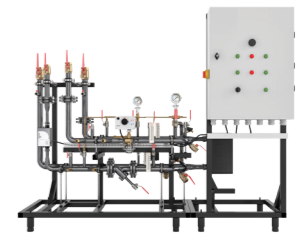
Plan your next district heating journey with our versatile and reliable range of pre-configured substations.



DSA MINI



DSE FLEX



DSP MOD@

Mounting	Wall-mounted	Floor-mounted	Floor-mounted
Single family home	•		
Apartment buildings	•	•	•
Commercial- and industrial buildings	•	•	•
Capacity for heating	150 kW*	Up to 600 kW*	Up to 1500 kW*
Capacity for domestic hot water	150 kW*	Up to 600 kW*	NO DHW
Customization	Predefined	Many options	Predefined
Warranty	5 years	5 years	5 years
Split design		•	•
Max dimensions (mm)	1F: 500 x 810 x 350 2F: 800 x 810 x 350	1F: 1200 x 1500 x 650 2F: 1500 x 1500 x 650	1F: 3439 x 1055 x 1640 2F: 3043 x 2110 x 1640

\* Based on the suggested temperature regime



# 3 good reasons to choose Danfoss

Danfoss has been at the frontier of defining district heating engineering for almost 50 years. Adding to our leading product portfolio, you get:

01

## Application experts

Access to application experts with deep understanding of your challenges.



02

## Quality first!

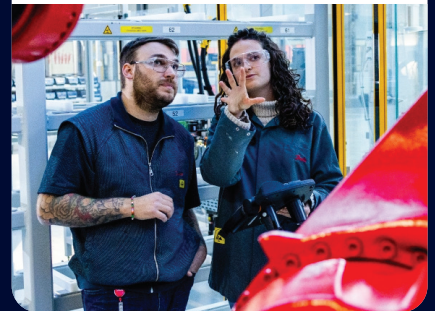
Manufacturing to the highest standards, including ISO 9001/14001 and ISO/TS16949 certifications.



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## Dedicated partner

A full-service, reliable, and dedicated business partner for you with more than 50 years of experience in the district heating business.



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