

DISTRICT HEATING:

# GRUNDFOS iGRID PRESSURE ZONE

GRUNDFOS iSOLUTIONS



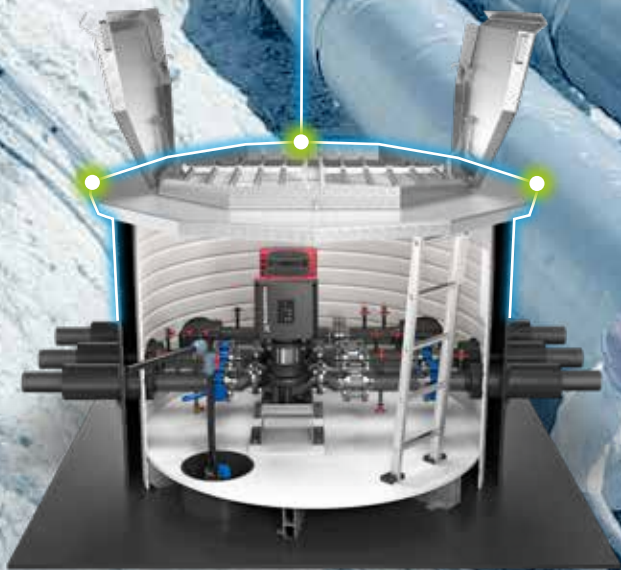
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GRUNDFOS 

# IMPROVE PRESSURE CONTROL IN YOUR DISTRICT HEATING GRID

The Grundfos iGRID Pressure Zone is a plug'n'pump solution that is built in a modular way, making it cost-efficient and possible to customise to your needs.

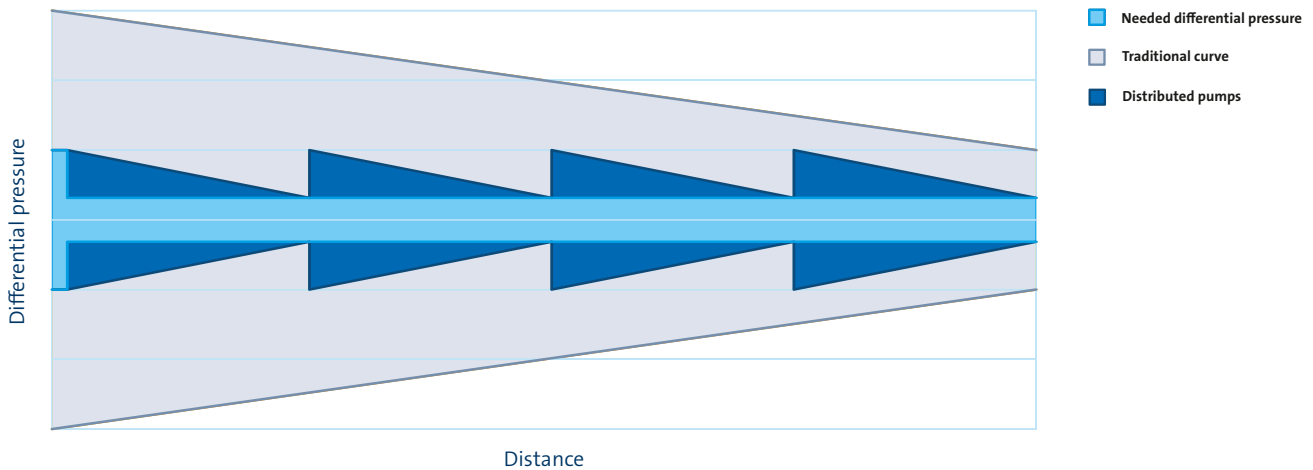
You can choose only to place an iGRID Pressure Zone in the most critical / remote areas of your grid or you can place iGRID Pressure Zones throughout the grid.

By adding the pressure where needed, you can significantly reduce the overall pressure in parts of the grid, making it possible to lower your pressure class, extend the lifetime

of installations in the grid, and reduce the size of your main pumps.

Combining the iGRID Pressure Zone with our iGRID Measure Points and/or iGRID Bypasses makes it possible to carry out demand-driven control based on real-time data in critical parts of the grid. As a result, it ensures the right supply of differential pressure without the typical safety margin.

Overall, your pump energy costs will be reduced!



## HOW DOES IT WORK?

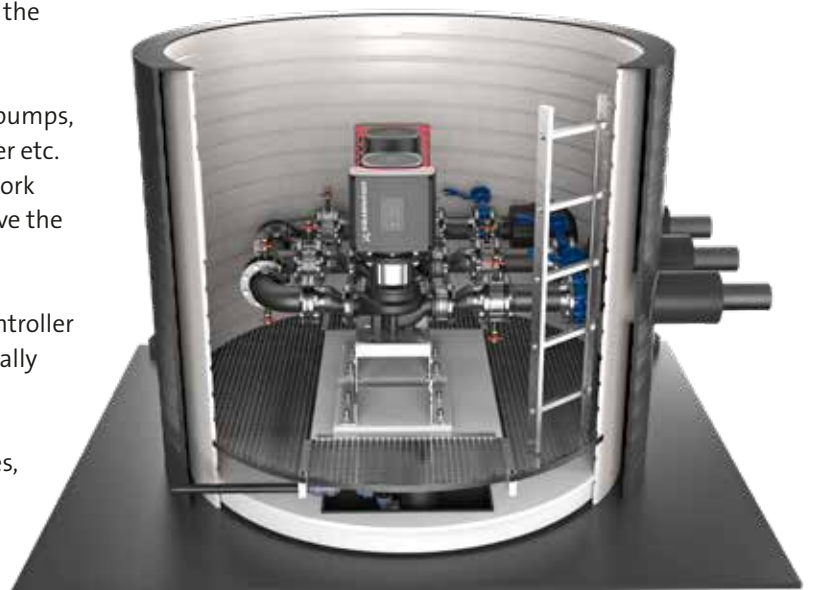
The iGRID Pressure Zone can be delivered as a plug'n'pump solution in a pit below the ground, in a cabinet above the ground or on a skid.

This means that the iGRID Pressure Zone comes with pumps, controls, pre-insulated pipe, valves, a ladder, a top cover etc. The pipes just need to be welded to the outside pipework and connected to the usual power supply cabinet above the ground.

The iGRID Pressure Zone comes with a built-in PID controller to ensure correct pressure and it can be controlled locally or via SCADA system..

By combining the the solution with certain accessories, the constant pressure control can be based on the real-time data in the critical points of the grid.

Further details can be found in our Installation & Operation manuals.



# PRODUCT DATA

Data	Pit	Cabinet	Skid
<b>Pump type</b>	TPE / CRE	TPE / CRE	TPE / CRE
<b>Pressure rating</b>	Up to 16 bar	Up to 25 bar	Up to 25 bar
<b>Media temperature</b>	0 – 130 °C	0 – 130 °C	0 – 130 °C
<b>Ambient temperature</b>	0 – 60 °C	0 – 60 °C	0 – 60 °C
<b>Maximum motor power</b>	22 kW	22 kW	22 kW
<b>Power supply</b>	3 × 400 V 50 Hz	3 × 400 V 50 Hz	3 × 400 V 50 Hz
<b>IP rating</b>	54	54	54
<b>Pipe connection</b>	Welding joint	Welding joint / flanges	Welding joint / flanges
<b>Number of pipes</b>	1 – 3	1 – 3	1 – 3
<b>Pipe size</b>	DN 50-200	DN 50-200	DN 50-200
<b>Top cover</b>	Light aluminium / Traffic cover	-	-
<b>Material</b>	PE	Steel	Steel
<b>Diameter</b>	1600 or 2000 mm	On request	On request
<b>Height</b>	1600 – 2200 mm	On request	On request

## Built-in Options

- Temperature and pressure sensors
- Flow meters
- Pressure gauges
- Pipe insulation covers
- Level sensor (only in pit)

## Solution add-ons

- Grundfos iGRID Bypass Cabinet or Grundfos iGRID Building Bypass
- Grundfos iGRID Pit Measure Point or Grundfos iGRID Building Measure Point
- Grundfos iGRID Pressure Optimiser

*For more information, see relevant product brochures*

**GRUNDFOS iGRID IS A NEW SOLUTION RANGE FOR DISTRICT HEATING**

With this range we fight heat losses and prepare for utilisation of renewable energy sources through intelligent temperature control.

By creating city zones with mixing loops, temperatures can be lowered to meet the actual demands in those zones and thereby deliver exactly the heat energy needed – nothing more and nothing less!

**Find out more about the Grundfos iGRID concept by contacting your local Grundfos Sales Company or visit [grundfos.com](http://grundfos.com) form more information.**

