Superior boosting by GRUNDFOS HYDRO MPC powered by GENIECON

Explore the booster set range at
grundfos.com

GRUNDFOS

Possibility in every drop

Maximise efficiency and future-proof your operations with the intelligent GENIECON controller

Grundfos Hydro MPC booster systems are renowned for their high performance and outstanding reliability – and now the new advanced controller improves ease of operation and energy efficiency even further.

When standard pressure boosting solutions aren't enough to meet your utility's clean water delivery demands, the Hydro MPC system is the high-performance answer. Engineered for operational excellence and intuitive control, it supports reliable performance across critical WU applications, including:

- Municipal water supply for multi-zone or high-rise service areas
- Agricultural and landscape irrigation networks
- Pressure boosting at utility substations

Efficient, intelligent control

The Grundfos Hydro MPC booster system is equipped with best-in-class pumps and motors, and the advanced GENIECON controller – the intelligence behind the system – takes the operation to a higher level:

High comfort
Pump performance is continuously adapted to the flow demand to keep the required pressure constant – and ensure high comfort throughout the day.

Customised application setup
Customise the system to perfectly match your unique requirements and applications.

Easy operation
The GENIECON controller's 10" touch screen makes operation effortless. The guided setup simplifies commissioning to ensure smooth and efficient setup.

Energy savings
The pump system utilises advanced self-learning algorithms, continuously analysing operational data such as power, pressure and flow to optimise operational efficiency and reduce energy consumption.

Early warning
The built-in log feature continually monitors system performance, enabling you to take action before any issues arise.

Easy connectivity
Connect effortlessly with SCADA and other digital systems for a full system overview. The controller – which meets strict EU cyber-security legislation – supports all major fieldbus protocols and includes a built-in Ethernet connection, enabling remote access via web browser for convenient monitoring and control. Grundfos Connect allows remote monitoring. Regular firmware updates ensure your system remains secure.

Controller
The GENIECON controller manages up to six main pumps and an optional pilot pump. In addition to its comprehensive control functionalities, it provides extensive system protections including:

- **Soft pressure build up**
- **Dry running protection**
- **Setpoint ramp**
- **Pressure monitoring**
- **Limit exceeded**
- **Defective non-return valve detection**
- **Emergency run**

Motor
Motors used in Hydro MPC booster systems feature a built-in VFD and meet IE5 efficiency standards (up to 26 kW). Motors from 30 kW and up comply with IE4 efficiency as a minimum.

Manifold
The stainless steel manifold is produced using an extruding process that eliminates gaps and "dead water zones", efficiently reducing noise, friction and bacteria growth in the pipes. High-quality welding and finishing ensure that all hygienic standards are met.

Pump
As standard, Hydro MPC features the world's leading multi-stage centrifugal pumps, the CR and CRE models. These pumps are well known for their eliability, efficiency and adaptability.

Engineered by Grundfos
You're guaranteed long-lasting technology that requires minimal maintenance and delivers maximum efficiency, all 100% engineered and tested by Grundfos.

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About Grundfos

Looking for reliable pumps from a trusted partner? Look no further than Grundfos, a world leader in water and pump solutions. Innovation has always been our driving force, and our solutions have been setting the standard in energy efficiency, reliability and connectivity for decades.

The Hydro MPC booster system range is a perfect example of our commitment to excellence, delivering reliable, efficient performance across a variety of applications.

With a global presence in over 60 countries, we're never far away. With Grundfos, you can be sure of extensive local expertise and support, in your language, wherever you are.

Explore the complete Grundfos portfolio at www.grundfos.com.

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