

HYDRO MPC

SUPERB PRESSURE CONTROL – OPTIMAL ENERGY EFFICIENCY



THE PREMIUM CHOICE FOR ANY JOB

The Hydro MPC is Grundfos' premium product in the Hydro Booster portfolio. A long list of special features makes it able to handle the operational challenges of any water boosting application. Its easy BMS integration makes it the preferred choice for complex systems and highly technological buildings.

Hydro MPC's can be installed in a large variety of buildings and systems, and are very common in:

- Public water supply systems
- High rises
- Hotels
- Hospitals
- HVAC systems



HYDRO MPC HIGHLIGHTS

Full range

Grundfos offers a vast variety of pump sizes, which makes sizing easy to fit any duty point.

Easy installation

The system is always pre-configured from the factory, and application specific settings are done via the start-up wizard on the controller.

Low flow stop

The system will stop completely during low consumption periods to save energy.

Reliability through redundancy

Operation reliability is secured by redundant sensor or standby pumps.

Energy optimized cascade

Constant pressure and the highest efficiency are guaranteed through the controller's intelligent use of pump curve data.

V4-MPC software update

- Multi-sensor functionality
- Non-return valve fault detection
- Secondary sensor control (DDD-CBS)

GRUNDFOS

Possibility in every drop

HYDRO MPC IN MORE DETAIL



Extra protection: Detection of defect non-return valve

Each pump outlet is equipped with a non-return valve (NRV) to avoid backflow when the pump is not running. If the pump is forced backwards due to a defect NRV, the controller will give a warning/alarm.



Energy optimization with Multi Sensor

Energy usage is optimized with the Multi Sensor designed for multiple Air Handling Units (AHU's) in HVAC applications.



Specific energy measurement

If the system has a flow meter installed it is possible to read out the actual and average specific energy measurement (kWh/m³) on the display.



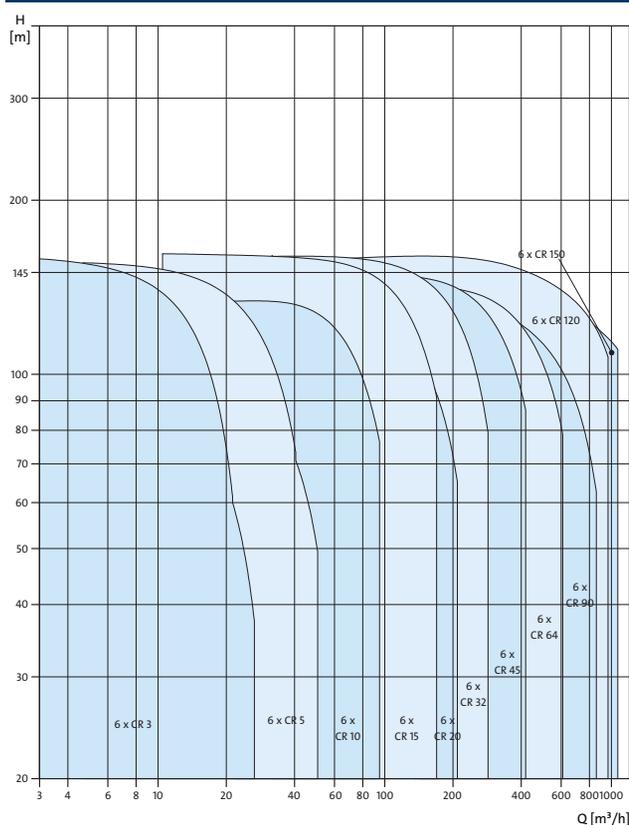
Remote control without BMS

Maybe you don't have a BMS system, but you still want remote control for your Hydro MPC? No problem! Use the Ethernet port on the controller to remote control the system with an Internet browser.

General information	
Product range	2-6 pumps
Flow range	0-1080 m ³ /h
Pressure range	PN10 & PN16
Max power	6 x 75kW
Liquid temp.	0-60°C
Ambient temp.	0-40°C

Material information	
Manifold + base frame Stainless steel EN/DIN 1.4301/AISI 304	CRI, CRIE 3 to 20 CR, CRE 32 to 150
Pump: Stainless steel EN/DIN 1.4301/AISI 304	CRI, CRIE 3 to 20
Pump: Cast iron (Wetted parts are Stainless steel)	CR, CRE 32 to 150

Performance curve: HYDRO MPC



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