

GRUNDFOS CONTROL MPC

Grundfos Control MPC lets you monitor and control up to six identical pumps connected in parallel, thereby helping you to achieve the highest possible energy efficiency in your system. Connecting Control MPC to a computer even lets you optimise your system from a distance.

Grundfos application areas:

- Heating
- Air-Conditioning
- Pressure Boosting
- Water supply systems

GRUNDFOS CONTROL MPC EFFICIENCY AT YOUR FINGERTIPS

USER-FRIENDLY PUMP CONTROL AND MONITORING FOR PRESSURE BOOSTING,
HEATING AND AIR-CONDITIONING SYSTEMS



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CONTROL MPC INTRODUCTION

GRUNDFOS CONTROL MPC INCREASES THE EFFICIENCY AND RELIABILITY OF PRESSURE BOOSTING, HEATING AND AIR-CONDITIONING SYSTEMS

If your current system consists of identical pumps connected in parallel, simply add Control MPC to achieve maximum control and efficiency.

Control MPC applications:

- Heating systems
- Air-conditioning systems
- Pressure boosting systems
- Water supply systems

A FLEXIBLE SOLUTION

Grundfos Control MPC is at the heart of pressure boosting, heating and air-conditioning systems around the world. Designed for adaptability and efficiency, it is suitable for a wide range of applications and always comes with application-optimised software that meets your specific needs. And as your needs change so does the Control MPC. It allows you to add new functionalities or configure the system as required.

What is Control MPC?

Grundfos Control MPC is a control cabinet with a CU 351 controller that lets you monitor and control up to six identical pumps connected in parallel. It comes with everything you need to get started and contains software optimised for your particular application.



ENERGY FOR MORE

Control MPC will have you minimising energy consumption and cutting energy costs straight out of the box. With application-optimised software, you have complete control over the pumps in your system and features such as automatic cascade control ensure the highest possible system energy efficiency. As the only system on the market, Control MPC knows exactly which – and how many – pumps to control, and will optimise performance and minimise energy consumption based on user-submitted pump curve data.



CONTROL MPC SPEAKS YOUR LANGUAGE

With Control MPC, there are no communication barriers. You are free to choose between a wide range of operating languages, and Control MPC supports communication with monitoring equipment or other external units via a number of different fieldbus protocols:

- Ethernet (VNC server is standard in Control MPC)
- Profibus via CIU modules
- LON via CIU modules
- Modbus via CIU modules
- GSM and GPRS via CIU modules
- PLC via IO 351B module

The joys of a long-distance relationship

Connecting Control MPC to a computer lets you monitor and control your system from a distance. This gives you easy and unlimited access to system performance and lets you optimise system settings without getting your hands dirty.



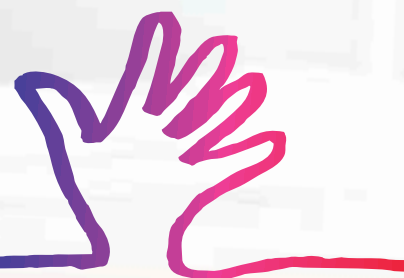
The CU 351 has a large intuitive LCD display providing a user-friendly interface

USABILITY YOU CAN RELY ON

The Control MPC is designed and built to the same exacting quality standards as all other Grundfos products. Features such as standby pump allocation, forced pump changeover and dry-running protection help to increase your system reliability and decrease downtime and cost-consuming maintenance. All it takes for you to start enjoying these Control MPC benefits is completion of the simple installation wizard which helps you set your desired parameters in the correct sequence.

CU 351 – user-friendly technology

The user-friendly interface of the CU 351 helps you through the installation process with simple onscreen instructions and makes day-to-day operation equally easy.



CONTROL IS EVERYWHERE

Give your system a boost

Control MPC is ideal for pressure boosting systems, typically water supply systems which are characterised by varying water consumption and a constant pressure requirement. Control MPC features a proportional pressure function specially designed for friction loss compensation in large pipe grids.

Get back into circulation

For circulation systems, such as heating or air-conditioning systems, where pump requirements fluctuate and constant differential pressure is essential at a critical point of the system, Control MPC is the answer. You can even set up your system to be controlled according to flow rate or temperature, if required.



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Control MPC Technical Information

Designed for control of:	up to 6 identical pumps in parallel
Designed to control Grundfos pumps:	CR(E), TP(E), NB(E), NK(E), MAGNA, UPE Series 2000, SP, HS etc.
Frequency:	50/60 Hz
Motor sizes:	0.37 to 75 kW (on request up to 630 kW)
Ambient temperature:	0°C to +40°C (+50°C*)
Max. relative humidity:	95%
Bus communication:	Ethernet, LON, Profibus, Modbus, PLC, GSM, GPRS
Mounting:	Wall or floor mounting

* Applies only to Control MPC Series 2000. A controller designed for the control of Grundfos Series 2000 pumps i.e. Grundfos TPE(D) Series 2000 and Grundfos MAGNA pumps.

THINKING BUILDINGS

At Grundfos CBS, we are always thinking buildings and our products contribute to making buildings that can almost think for themselves. We do not just consider our products as stand alone devices; we consider them an integral part of a living building whose purpose is to function in the best way possible for its inhabitants.

Grundfos CBS offers products across a full range of applications, including heating, air conditioning, waste water, booster systems, fire protection systems and district energy.

Our expertise is founded in decades of global experience and we are proud to share our knowledge with our clients. We are also determined to take the lead on new technologies and innovation opportunities.

To learn more about Grundfos CBS and to find out how we can be of assistance, contact Grundfos or visit us at www.grundfos.thinkingbuildings.com

EXPLORE OUR ONLINE UNIVERSE

Make the most of Grundfos CBS – visit the Thinking Buildings Universe at www.grundfos.com/commercialbuilding.

Our website contains a range of services that function as your online Grundfos CBS expert:

- Quick-pump selection with an extensive product database and dimensioning tool that helps you choose the right pump for your needs.
- E-learning programme that lets you improve your specialist knowledge
- Access to our e-newsletters that keep you up to date on the latest technology, product information and background material.
- Lexicon where you can look up definitions of relevant professional terms

Welcome to the Grundfos CBS Thinking Buildings Universe!

