



▶ Compact, reliable domestic pressure boosting

Ensuring comfort throughout the home

Modern technologies have brought a high degree of comfort to many homes, including amenities such as stable electricity and an adequate water supply.

Take away the water pressure people expect, and an unnecessary strain on the household's everyday activities arises. For years, the Grundfos CH pressure booster ensured this comfort in people's daily lives. Now, a new Grundfos family member does this job.

The Grundfos CM Booster takes over as the complete pressure boosting system for domestic water supply needs. It contains all the elements needed for ensuring water pressure for household applications. These elements include a Grundfos CM pump, a Grundfos Pressure Manager control unit or variable speed drive and a pressurised tank.

There are three main variants:

- Grundfos CME booster gives max comfort and constant pressure
- Grundfos CM booster, equipped with Pressure Manager PM2 is adjustable to fit every need
- Grundfos CM Booster equipped with Pressure Manager PM1 gives basic functionality, like dry run protection and fixed start pressure:

The Grundfos CM Booster is a superior choice when compared to similar domestic pressure boosting solutions. Key characteristics include:

Reliability

- Grundfos CM and CME Boosters quality
- AISI 304 all-stainless steel variant
- Proven technology
- Robust materials
- Includes overload, blocking and dry run protection
- Excellent sand handling
- Suitable for gasolin power generators operation

Efficiency

- Best pump efficiency on the market
- Proven, mature technology
- Modest size, high performance
- Low power consumption
- Optimised hydraulics

High degree of comfort

- Constant pressure through elimination of pressure fluctuations
- Dry run protection
- All-in-one package solution
- Easy to install and operate
- Quiet operation
- Maintenance-free operation
- Flexible placement

The CM pump

This non-self-priming, horizontal, multistage, centrifugal pump is designed for domestic or light industrial applications. It is suitable for thin, clean, and non-explosive liquids without solid particles or fibres. Its compact dimensions offer an impressive performance.

The pump is available in a AISI 304 version, where all wetted parts are corrosion free. The impellers, chambers, and outer sleeves of the CM range take advantage of Grundfos' world-class knowledge of fluid movement and extensive engineering skills.

The Grundfos Pressure Manager

The Grundfos Pressure Manager is a compact control unit for domestic water supply pumps. It sets new standards for integration of functionality and intelligence in domestic pump control units. PM1 – Basic Flexibility and PM2 – All-round Control cover the entire spectrum from simple to very complex home applications and meet the market's diversified needs for control and comfort.

Variable speed drive

Introducing variable speed drives to domestic water supply, makes it possible to match pump performance with varying demands for flow. Grundfos has 25 years of experience in integrating variable speed drives on pumps. The integration ensures the customer a convenient solution where all components are optimised to operate together. The variable speed drive also makes it possible to adjust the pressure level to fit exactly the given application.

Domestic pressure boosting

The Grundfos CM Booster serves several domestic water supply applications including pressure boosting and irrigation, some examples are shown below.



Grundfos CM Booster with PM1
The flexibility you need
Reliability and quiet operation.



CM Booster with PM2
Personalised water pressure, personally done
Unique features and functions for personalised water pressure.



Grundfos CME Booster
Constant pressure, no matter what
Constant pressure for maximum comfort in large domestic dwellings, multifamily homes and small commercial buildings (offices, schools, etc.)

Constant pressure, no matter what

Grundfos CME Booster

The Grundfos CME constant pressure package is a complete solution for domestic water supply. Comfort is a key word in regards to the Grundfos CME Booster. It ensures the end-user constant water pressure despite variations in demand or inlet pressure.

The Grundfos CME Booster provides constant water pressure for a variety of domestic applications. Simply put, it is

- Easy to select
- Easy to install
- Easy to operate.

The entire solution is a combined unit consisting of one Grundfos CME pump fitted with a five-way fitting and

a diaphragm tank. The five-way fitting encompasses a check valve, a pressure transmitter, a pressure gauge and a diaphragm tank connection. When delivered, the entire package is ready to install, and easy to use.

For the end-user, he is no longer bothered by fluctuations in water pressure due to a rise or fall in demand, or from pump starts and stops. Grundfos CME Booster keeps the pressure within the home up regardless of usage. The constant pressure feature provides the benefit of increased comfort. In addition the CME booster makes it possible to personalise the water pressure. By the touch of a button the pressure level is increased or decreased as desired.



Grundfos CME Booster

Personalised water pressure, personally done

Grundfos CM Booster with Pressure Manager PM2



Grundfos CM Booster PM2

Grundfos has taken the mystery out of controlling variable water pressure for the end-user. With a Grundfos CM Booster PM2 complex operation and cryptic parameters are a thing of the past.

The key to understanding a Grundfos CM Booster PM2 lies in the final four letters of the product name. It combines a new Grundfos Pressure Manager PM2, which provides adjustable pressure settings. The end-user is in control with regards to selecting the water pressure he prefers for pump start-up.

Grundfos pressure sensor technology inside

With the integration of a pressure sensor from Grundfos Direct Sensors™, Pressure Manager PM2 offers entirely new and improved opportunities for pressure measurement.

The sensor supplies continuous information of the pressure in the system, enabling installers and end-users to:

- Read current pressure on the intuitive LED display
- Adjust the starting pressure (1.5 - 5 bar)
- Start and stop the pump according to pressure.

Pressure Manager represents the optimum solution both in systems with and without pressure tank, as PM2 can be optimised for operation with large external pressure tank by enabling the 1 bar differential pressure functionality. This significantly reduces the number of operating hours of the pump in installations with pressure tank.

The flexibility you need

Grundfos CM Booster with Pressure Manager PM1

The right pressure in domestic water supply applications is important. For covering basic needs, the Grundfos CM Booster PM1 is the perfect solution. It too is based on a Grundfos CM pump, like all other members of the CM Booster family.

Key characteristics include

- Reliability
- Efficiency
- Quiet operation
- Dry run protection.

Mounted above the CM pump, the new Grundfos Pressure Manager PM1 adds an extra degree of control to domestic pressure boosting. The Pressure Manager PM1 is equipped with an integrated flow switch to optimise operations and ensure maximum protection of the pump.

In addition, the flow switch serves as a non-return valve, resulting in a considerable reduction in pressure loss compared to a conventional non-return valve and flow switch solution. Because the new flow switch uses a spring as return mechanism instead of gravity, the orientation of the control unit is extremely flexible. This means that Pressure Manager can be freely positioned in the installation to counteract, for example, confined spaces or extensive pipe work.

Furthermore, the PM1's power supply exemplifies Grundfos' core value of Thinking ahead. Traditional control units are usually unable to operate when the supply voltage falls outside the specified range. The PM1 eliminates this problem, having been constructed to allow it to receive its power from a generator, handling the accompanying fluctuations that can occur.

Grundfos CM Booster PM1



ALL THE INFORMATION YOU NEED IS ONLINE

Grundfos WebCAPS is an online product selection tool, but it offers much more than that. The site compiles all the product-related information you could ever need.

What you can find in WebCAPS

Catalogue – includes all products available in your region, complete with technical information, drawings, descriptions, performance curves, etc.

Literature – find everything from data booklets through installation & operating instructions to product brochures.

Service – the place to find service instructions (including video tutorials), service parts lists, assembly drawings, etc.

Sizing – enter your system requirements for instant recommendations. Includes Life Cycle Cost calculations.

Replacement – enter the make and model of your old pump for an instant replacement recommendation.

CAD drawings – download DXF and DWG files as required.

For offline use, WinCAPS is a CD-ROM version of WebCAPS. Contact Grundfos to order.



CM BOOSTER RANGE

The CM Booster range is part of a much wider range of pump solutions and environmental technology developed and manufactured by Grundfos. For homes and buildings on any scale, Grundfos offers solutions for:

- Heating
- Cooling
- Water supply
- Wastewater
- Fire fighting
- Dosing

Explore the range online or ask your local dealer for details.

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