

# DEMAND MORE INTELLIGENCE FROM YOUR BUILDING

Make Grundfos your partner in  
the fight for system efficiency

be  
think  
innovate

GRUNDFOS 



# HOW INTELLIGENT IS YOUR BUILDING?

Make Grundfos your partner in the fight for system efficiency

Partner with Grundfos and get intelligent pumping solutions for every application in your building. Grundfos and its legacy brands provide a comprehensive range of customizable solutions that boost performance and reduce energy consumption.



WATER TREATMENT

HEATING

WATER TREATMENT

PRESSURE BOOSTING

DISTRICT ENERGY

COOLING

WASTEWATER

FIRE PROTECTION

RAINWATER HARVESTING





## HEATING AND COOLING

### CHALLENGE

In order to maintain the right indoor climate, hydronic systems must be accurately controlled by sophisticated technology that monitors performance at all times.

### OUR SOLUTION

Grundfos variable frequency converters allow your pump system to adapt continuously to system demands, reducing lifecycle costs, improving overall system efficiency, providing properly regulated indoor climate and significantly lowering carbon dioxide emissions.

### BENEFITS

- High comfort levels during all seasons and in all climates
- Increased system performance
- Low lifecycle costs through intelligent operations
- Unparalleled reliability
- Reduced carbon dioxide emissions
- Ability to control any type of HVAC system



## DISTRICT ENERGY

### CHALLENGE

District energy requires an efficient transmission system to distribute energy from centralized heating and cooling plants through a double pipe network to the final consumers.

### OUR SOLUTION

Grundfos delivers both the expertise and the high-performance pumping systems to meet demands for energy savings, decreased lifecycle costs and increased comfort and convenience for end customers.

### BENEFITS

- Enhanced environmental protection due to reductions in carbon dioxide emissions
- Increased energy efficiency between 45 to 90 percent in combined heat and power (CHP) systems
- Ease of operation and maintenance
- Low lifecycle costs thanks to fuel flexibility and reduced upfront investments in boilers or chillers



## PRESSURE BOOSTING

### CHALLENGE

Commercial buildings face two major challenges when it comes to ensuring a constant pressure at all tap points. First, pre-pressure in water mains is rarely high enough to cover the whole building. Second, water consumption levels vary throughout the day, meaning booster systems must be reliable, efficient and intelligent enough to maintain the optimum system pressure regardless of demand.

### OUR SOLUTION

Equipped with world-renowned Grundfos pumps, our boosters meet changing capacity requirements with optimal efficiency. Our fully integrated, all-in-one packaged systems are designed to handle even the most difficult applications with ease and accuracy. They also offer connectivity through the Grundfos Remote Management System, which allows users to monitor performance and optimize system settings from anywhere.

### BENEFITS

- Low lifecycle costs
- Complete customization
- Increased hygiene through stainless steel solutions
- Proportional pressure control modes for water systems with relatively low static height
- Plug-and-pump design for reduced installation time



## WASTEWATER

### CHALLENGE

When gravity alone is not enough to move wastewater, buildings need pressurized wastewater systems to handle the complexities of varying solids content from different sources such as domestic wastewater, storm water, drainage water and garage wastewater.

### OUR SOLUTION

Grundfos wastewater solutions build on decades of expertise, allowing us to balance performance, reliability, cost efficiency and serviceability. Grundfos can design the entire system or provide high-quality components such as sewage pumps, drainage pumps, grinder pumps, lifting stations, pre-fabricated pumping stations, controllers and a wide range of accessories.

### BENEFITS

- Full range of solutions to meet your specific demands
- Unparalleled reliability and efficiency for low lifecycle costs
- Reduced downtime
- Plug-and-pump solutions



## FIRE PROTECTION

### CHALLENGE

Because inefficient fire protection can prove fatal, it is crucial for every system component to be totally reliable.

### OUR SOLUTION

Grundfos designs and delivers fire protection solutions ranging from simple pump-driven systems to highly innovative engineered and packaged systems that comply with all relevant fire standards. Our dedicated competency centers around the world allow Grundfos to consistently meet new safety challenges.

### BENEFITS

- Fully customizable to meet specific needs
- Global production, sales and service companies assist customers with specification, installation, training and maintenance
- Minimal installation-to-operation time
- Widest range of fire approvals and listings worldwide



## WATER TREATMENT

### CHALLENGE

Without efficient water disinfection in commercial hot water systems, cooling towers, spas and swimming pools, legionella and other dangerous bacteria can lead to fatalities or extreme illness.

### OUR SOLUTION

Grundfos chlorine dioxide disinfection systems ensure safe, clean water throughout the building. In addition, our expertise in anti-scaling, anti-fouling and anti-corrosion prevents pipes in air-conditioning, heating and boiler systems from deteriorating.

### BENEFITS

- Chlorine dioxide offers superior disinfection
- Highly safe with solutions for continuous water quality monitoring
- Smell and taste of water remains unaffected



## RAINWATER HARVESTING

### CHALLENGE

Every day, vast amounts of drinking water are flushed down the toilet, putting a strain on the economy and on the world's diminishing freshwater supply.

### OUR SOLUTION

Grundfos offers complete rainwater harvesting systems with integrated controls to collect rainwater for non-potable purposes such as toilet flushing, washing machines, cooling towers and irrigation. Grundfos solutions deliver a steady flow of water, switching automatically between main water and the rainwater tank.

### BENEFITS

- Reduced risk of water backflows in buildings
- Save up to 85 percent of drinking water
- Reduced lime scale
- Enhanced sustainability image of building

*Grundfos GO  
– mobile pump control*



### Grundfos GO

The Grundfos GO Remote gives you intuitive handheld pump control and full access to the Grundfos online tools on the go. So get ready to save valuable time on pump control, data collection and reporting with the most comprehensive mobile platform on the market.

#### Full control

Grundfos GO Remote gives you complete control over every aspect of pump performance, whether you are dealing with one or multiple pumps. Now, you can monitor all relevant pump data, group pumps for increased manageability, change settings and much more.

#### Easy-to-access information and assistance

The user-friendly GO Remote interface gives you all the information and help you will ever need. GO

Remote works with all our E-pumps and communicates using both radio and infrared technology. It provides easy-to-follow tips and guidance as well as live pump data feeds (duty point, power consumption, speed, temperature, etc.). Even the alarm log system has been designed to make error codes fully descriptive and intuitive.

#### Greater connectivity

With GO Remote, you will never be out of touch. You get around-the-clock help such as quick-links to all relevant documentation and full integration with our easy online sizing and replacement tools. Since your GO Remote application will be updated with new features and functions in the future, you will always be at the forefront of mobile pump technology.



# APPLICATION OVERVIEW



**MAGNA3**  
Most efficient commercial circulator on the market with intelligent controls

**TPE**  
Vertical in-line pump featuring a motor with built-in frequency converter

**LFE/LCSE**  
Close coupled split coupling and Frame mounted end suction pumps with MLE motor to optimize energy efficiency

**VLSE**  
Space-saving inline pumps with integrated motor, variable frequency drive and control with Grundfos sensor technology

**KP/KPV**  
The innovative hydraulic design, ease of maintenance, low life-cycle cost, and energy efficiency of horizontal and vertical split case assures maximum benefits for the user

**CRE-DP**  
Plug-and-pump solution with proportional differential pressure control using a factory-mounted sensor

**Hydro MPC BoosterpaQ**  
Our premier fully integrated pre-engineered packaged pumping system with advanced control capability and energy efficient vertical inline multi-stage pumps

**PACOpAQ**  
Fully integrated pre-engineered packaged pumping system with advanced control capability, efficient PACO-branded centrifugal pumps, and hydronic accessories

**Hydronic Accessories**  
Heat exchangers, expansion tanks, tangential air separators, combination valves, suction diffusers and hydraulic separators all sold separately or can be integrated into a customized packaged system

**LFE/LCSE**  
Close coupled split coupling and Frame mounted end suction pumps with MLE motor to optimize energy efficiency

**VLSE**  
Space-saving inline pumps with integrated motor, variable frequency drive and control with Grundfos sensor technology

**KP/KPV**  
The innovative hydraulic design, ease of maintenance, low life-cycle cost, and energy efficiency of horizontal and vertical split case assures maximum benefits for the user

**Hydro MPC BoosterpaQ**  
Our premier fully integrated pre-engineered packaged pumping system with advanced control capability and energy efficient vertical inline multi-stage pumps

**PACOpAQ**  
Fully integrated pre-engineered packaged pumping system with advanced control capability, efficient PACO-branded centrifugal pumps, and hydronic accessories

**Hydronic Accessories**  
Heat exchangers, expansion tanks, tangential air separators, combination valves, suction diffusers and hydraulic separators all sold separately or can be integrated into a customized packaged system

**CR, CRE**  
Energy efficient vertical inline multi-stage pumps

**SLV, SL1**  
Submersible pumps designed to handle sewage, effluent and large volumes of surface and process water

**SEG**  
Submersible grinder pump for pumping effluent and sewage in small communities or areas without sewer systems

**Dedicated control**  
Advanced controller for up to 6 pumps for wastewater pumping stations

**SLC, DLC**  
Pump controllers designed for level control, monitoring and protection of pump systems

**Unilift KP, AP**  
Submersible drainage pumps suitable for pumping drainage water or gray wastewater

**Hydro MPC BoosterpaQ**  
Our premier fully integrated pre-engineered packaged pumping system with advanced control capability and energy efficient vertical inline multi-stage pumps

**Hydro Multi-B**  
A unique combination of efficient variable-speed end suction-type multistage pumps and easy-to-use user interface

**Hydro Multi-E**  
Fully integrated pre-engineered packaged pumping system with control capability through an integrated VFD and energy efficient vertical inline multi-stage pumps

**CRE-Plus**  
A simplex energy efficient vertical inline multi-stage plug-and-pump system with control capability through an integrated VFD

**CMBE**  
Commercial-grade yet compact constant pressure booster pump

**MQ**  
A compact, all-in-one boosting system for domestic water supply

**CM, CME, CME-Plus**  
Efficient variable-speed end suction-type multistage pump

**DME**  
Dosing pumps that combine perfect precision with user-friendliness for large dosing quantities from 15.9 to 248gph

**DDC, DDE, DDA**  
Next-generation variable speed micro-processor controlled metering pumps

**OXIPERM PRO**  
Chlorine dioxide production systems for fighting Legionella and other germs in drinking water

**CR, CRE**  
Energy efficient vertical inline multi-stage pumps

**CM, CME, CME-Plus**  
Efficient variable-speed end suction-type multistage pump

**CMBE**  
Commercial-grade yet compact constant pressure booster pump

**SBA**  
All-in-one submersible booster pump for pumping clean water

**Hydro MPC BoosterpaQ**  
Our premier fully integrated pre-engineered packaged pumping system with advanced control capability and energy efficient vertical inline multi-stage pumps

**MQ**  
A compact, all-in-one boosting system for domestic water supply

**Peerless-brand horizontal split-case fire pump**

**TUTF**  
Peerless-brand horizontal split-case multi-stage pump

**PVF**  
Peerless-brand inline fire pump

**VTFP**  
Peerless-brand vertical turbine pump



**GRUNDFOS PRODUCT CENTER**  
[www.product-selection.grundfos.com](http://www.product-selection.grundfos.com)

- Online sizing tool for quick pump selection and CAD drawings
- Easy-to-use service information on each pump
- Instant access to saved items, including complete projects
- Optimized for mobile devices

**GRUNDFOS EXPRESS SUITE**  
[www.grundfosexpresssuite.com](http://www.grundfosexpresssuite.com)

- Online sizing and information tool for PACO-branded pumps and accessories
- Easy-to-use service information on each pump



# BEYOND THE PUMP

Grundfos and its legacy brands provide a comprehensive range of customizable solutions that boost performance and reduce energy consumption. From water disinfection, boosting and disposal to heating, chilling and fire-fighting, Grundfos takes a holistic approach to

commercial buildings. Our integrated pumps, variable frequency drives, control units, communication modules and remote monitoring systems adapt to changes immediately, making Grundfos the intelligent choice for all application areas within the building.



Grundfos has served the North American market for more than 40 years, flourishing from one small factory in Fresno, Calif., to 17 manufacturing, logistics, sales and service facilities throughout the region. Today Grundfos provides comprehensive, cross-continental coverage through a number of

marquee product brands, some with roots going back a century or more. Together, Grundfos, Paco, Peerless, Yeomans, Sewer Chewer and Morris provide a complete portfolio of products for the North American commercial buildings market.

## TAKE CONTROL OF YOUR CONTINUING EDUCATION NEEDS

The Grundfos Technical Institute (GTI) offers busy licensed professionals the opportunity to maintain their continuing education credits through a wide variety of flexible learning avenues.

Visit [www.grundfos.us/training](http://www.grundfos.us/training), as seen below, to choose from a number of education possibilities that suit your needs and schedule, including face-to-face classes, group webinars and self-directed online courses. Classes span various product families, markets and applications.



**ECADEMY ONLINE TRAINING**  
Grundfos online training material for engineers, contractors, installers and wholesalers.



**CERTIFIED COURSES-AMERICAN INSTITUTE ARCHITECTURE**  
Maintain your credentials and further increase your knowledge of pumps and systems with certified training courses.



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Explore and view various topics of interest.



**PUMP TRAINING WEBINARS**  
Our webinars cover a wide range of topics, including e-tools.



**PUMP TRAINING WORKSHOPS**  
Learn more about the various workshops we are offering.



**CHANNEL PARTNERS ONLY**  
Helpful information for our partners.

## GRUNDFOS COMMERCIAL BUILDINGS

Grundfos is a leading supplier of full-range pump solutions from heating and cooling to pressure boosting and every application in between.

At Grundfos, we think beyond the pump. From the largest, most complex applications to the smallest, we utilize our in-depth pump knowledge and our unrivaled range of intelligent pumping systems.

This approach has made us a preferred partner for contractors, consulting engineers, building owners, and many others as they look to boost performance and reduce energy consumption.

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**Grundfos North America**  
2001 Butterfield Rd, Ste 1700  
Downers Grove, IL 60515

[www.grundfos.us](http://www.grundfos.us)  
[www.grundfos.ca](http://www.grundfos.ca)  
[www.grundfos.mx](http://www.grundfos.mx)

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