BE responsible
Being responsible is our foundation.
We know that we have a responsibility towards the people who are Grundfos, towards the innovative soul of Grundfos as well as towards the surrounding world. Whatever we do, we make sure that we have a firm and sustainable basis for doing it.

THINK ahead
Thinking ahead makes innovation possible.
We encourage a certain Grundfos way of thinking which is founded upon the belief that everyone must contribute by using his or her judgement and foresight. We are looking for commitment and ideas in everything we do in order to make the best solutions. We think — and then we act.
INNOVATE

Innovation is the essence.

It is the innovations that make Grundfos unique. We stand out because of our ability to constantly create new solutions to the ever-changing demands of the pump business. We meet every challenge and we are never afraid of taking the initiative — remaining true to our ideals calls for renewal. Innovation is the soul of Grundfos.
IT IS OUR MISSION – the basis of our existence – to successfully develop, produce, and sell high quality pumps and pumping systems worldwide, contributing to a better quality of life and a healthier environment.

A global business

With almost 18,000 employees worldwide, and annual production of 16 million pump units per year, Grundfos is one of the world’s leading pump manufacturers. The 80 Grundfos Companies around the globe help bring pumps to every corner of the world, supplying drinking water to Antarctic expeditions, irrigating Dutch tulips, monitoring groundwater beneath waste heaps in Germany, and air conditioning Egyptian hotels.

Efficient, sustainable products
Grundfos is constantly striving to make its products more user-friendly and reliable as well as energy-saving and efficient. Our pumps are equipped with ultra-modern electronics allowing output to be regulated according to current needs. This ensures convenience for the end-user, saves a great deal of energy and, in turn, benefits the environment.

Research and development
In order to maintain its market position, Grundfos takes customer research to heart when improving or developing new products. Our Research and Development department makes use of the latest technology within the pump industry in search of new and better solutions for the design and function of our pump solutions.

Corporate values
The Grundfos Group is based on values such as sustainability, openness, trustworthiness, responsibility, and also on partnership with clients, suppliers and the whole of society around us, with a focus on humanity that concerns our own employees as well as the many millions who benefit from water that is procured, utilized and removed as wastewater with the help of Grundfos pumps.
GRUNDFOS

GRUNDFOS NORTH AMERICA

› North American headquarters in Olathe, Kansas
› Manufacturing in Fresno, California
› Service, distribution and light assembly in Allentown, Pennsylvania
› Sales and assembly located in Canada and Mexico
› Grundfos CBS in Brookshire, Texas

Technology and Business Development Center at Group headquarters in Denmark
Pumps for all purposes

Grundfos offers high quality products for efficient, energy-saving pump solutions.

Heating and hot water service systems
Circulator pumps for circulation of hot water in central and district heating systems and circulation in domestic hot water service systems.

Cooling and air conditioning systems
Circulator pumps for circulation of cold water and other liquids in cooling and air conditioning systems.

Industrial applications
A wide range of multistage pumps for the transfer of water, cooling lubricants, and other liquids in industrial and process systems.

Pressure boosting and liquid transfer
Vertical and horizontal, centrifugal pumps, and pressure boosting systems for liquid transfer and boosting of hot and cold water.

Sanitary
Hygienic end-suction-centrifugal, rotary positive displacement, self-priming and multistage pumps for food, beverage, and pharmaceutical process systems.
Groundwater supply
Submersible pumps for groundwater supply, irrigation and groundwater de-watering.

Domestic water supply
Submersible pumps, jet pumps, multistage centrifugal pumps and compact systems for water supply in homes, gardens, and hobby applications.

Sewage and wastewater
Drainage, sump, effluent and sewage pumps for a wide range of applications in building services.

Environmental applications
Purpose-built submersible pumps for remedial pumping of contaminated groundwater and for groundwater sampling for water quality analyses.

Dosing/Disinfection
Dosing pumps and disinfection generators for water treatment systems, RO, cooling and heating, swimming pools, process industries, food and beverage, water supply and wastewater.
<table>
<thead>
<tr>
<th>Product name</th>
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* Available only in Canada.
**ALPHA™ Variable Speed Circulator**
Cast iron, stainless steel, permanent wet-rotor, circulator pumps

**Technical data**
- Flow, Q: 0 to 22 gpm
- Head, H: 0 to 19 ft
- Voltage: 1 x 115V
- Min. fluid temp: min. 36°F
- Max. fluid temp: max. 230°F
- Motor: Single phase, 115V
- Working press.: max. 150 psi

**Applications**
- Open and closed systems
- Circulation of hot water in heating systems
- Variable head and flow system demands

**Features and benefits**
- Seven hydraulic settings;
- Three fixed speeds
- Three constant pressure
- AutoAdapt™
- LED read outs;
- Power (Watts)
- Estimated flow (GPM)
- Permanent magnet motor design;
- High starting torque
- 50% power reduction
- Nut capture feature
- Maintenance-free

**Description**
- AutoAdapt™ setting automatically adjusts to changing system demands

**Comfort System Hot Water Recirculation Kit**
Stainless steel wet-rotor, circulator pumps

**Technical data**
- Flow, Q: 0 to 3.4 gpm
- Head, H: 0 to 3.5 ft
- Min. fluid temp.: min. 36°F
- Max. fluid temp.: max. 150°F
- Motor: Single phase, 115V
- Working press.: max. 145 psi

**Applications**
- Circulation of hot water in:
  - Domestic hot water recirculation
  - Ideal for retrofit applications
  - IAPMO and ANSI/NSF61 listed

**Features and benefits**
- Maintenance-free
- Low noise
- Low energy
- Wide range
- Corrosion-resistant stainless steel

**Small, Medium UP Open & Closed Systems**
Cast iron, silicon bronze, stainless steel wet-rotor circulator pumps

**Technical data**
- Flow, Q: 0 to 46 gpm
- Head, H: 0 to 37 ft
- Min. fluid temp.: min. 36°F
- Max. fluid temp.: max. 230°F
- Motor: Single phase, 115V
- Working press.: max. 150 psi

**Applications**
- Circulation of hot or cold water in:
  - Open and closed systems
  - Heating systems
  - Cooling and air conditioning systems

**Features and benefits**
- Maintenance-free
- Low noise
- Low energy
- Wide range
- Optional
  - Timer
  - Line Cord
  - Aquastat
**Small, Medium, UPS Open & Closed Systems**
Cast iron, silicon bronze, stainless steel wet-rotor circulator pumps

**Technical data**
- Flow, Q: 0 to 120 gpm
- Head, H: 0 to 46 ft
- Min. fluid temp.: min. 36°F
- Max. fluid temp.: max. 230°F
- Motor: Single phase, 115V
- Working press.: max. 150 psi

**Applications**
Circulation of hot or cold water in:
- Open and closed systems
- Heating systems
- Cooling and air conditioning systems
- Drop in replacement service work

**Features and benefits**
- Maintenance-free
- 3-speed
- Removable check valve
- Nut capture feature
- Low energy
- Wide range

**Optional**
- Line Cord
- Timer
- Rotated flange

---

**VersaFlo® UP, UPS**
Large multi-speed wet-rotor circulators

**Technical data**
- Flow, Q: 9 to 270 gpm
- Head, H: 1 to 62 ft
- Fluid temp.: 14 to 230°F
- Working press.: max. 145 psi
- HP range: 1/3 to 3 hp

**Applications**
Circulation of liquids in:
- Stationary open or closed central and solar heating systems
- Hot water recirculation systems
- Cooling and air conditioning systems
- Snow melt

**Features and benefits**
- Quiet, maintenance-free motor with internal thermal protection
- Built-in motor protection
- Industry standard flange-to-flange
- Cast iron or bronze

**Optional**
- Protection module
- Relay module with fault signal or operating output
- Bronze pump housing

---

**MAGNA**
Large variable speed wet-rotor circulators with AUTOADAPT™

**Technical data**
- Flow, Q: 10 to 170 gpm
- Head, H: 1 to 42 ft
- Fluid temp.: 59 to 230°F
- Working press.: max. 175 psi
- Ambient temp.: 32° to 104°F
- HP range: 1/3 to 1 hp
- Motor: 1x230V Permanent Magnet motor with integrated VFD

**Applications**
Circulation of liquids in:
- Heating systems
- Hot water recirculation systems
- Ideal for systems with varying flow
- Snow melt

**Features and benefits**
- Energy Optimization with AUTOADAPT™
- Sensor-less control
- Quiet, maintenance free
- Built-in motor protection
- Cast Iron or stainless steel

**Optional**
- MAGNA-LON module
- GENI Module
- CIU available for the fieldbus communication (requires GENI Module)
**VersaFlo® TP, TPE**

Close coupled in-line circulators; TPE electronically controlled

**Technical data**
- Flow, Q: 8 to 300 gpm
- Head, H: 3 to 67.5 ft
- Fluid temp.: 5 to 288°F
- Working press.: max. 145 psi
- Ambient temp.: max. 104°F
- HP range: 1/3 to 3 hp

**Applications**
- Circulation of hot or cold water in:
  - Large heating systems
  - District heating plants
  - Local heating plants
  - Domestic hot water systems
  - Cooling and air conditioning systems

**Features and benefits**
- Cast Iron or bronze
- Stainless steel construction for long life and maintenance-free operation
- Industry standard flange-to-flange
- ODP or TEFC motor flexibility
- Various types of shaft seals depending on liquid, temperature, and pressure

**Optional**
- Wireless remote control, R100
- Bronze pump housing
- CIU is available for fieldbus communication

**LM, LP**

Close coupled in-line circulators

**Technical data**
- Flow, Q: 30 to 600 gpm
- Head, H: 8 to 180 ft
- Fluid temp.: 5 to 250°F
- Working press.: max. 175 psi
- Ambient temp.: max. 104°F
- HP range: 3/4 to 20 hp

**Applications**
- The pumps are used for circulation of water in:
  - Water supply
  - Heating and air conditioning systems
  - Pressure boosting
  - Liquid transfer applications in:
    - Industry
    - Agriculture

**Features and benefits**
- Maintenance-free with a low starting torque and a high operating efficiency
- Direct-coupled to standard NEMA-C face motor
- 431 stainless steel pump shaft
- High quality stainless steel shaft seal
- Stainless steel impeller

**Optional**
- Various types of shaft seals depending on liquid, temperature, and pressure

**DME, DMS**

Compact diaphragm dosing pumps

**Technical data**
- Capacity, Q: max. 278 gph (double with duplex configuration)
- Pressure, p: max. 2900 psi
- Liquid temp.: max. 122°F

**Applications**
- Injection of chemicals in water and waste water treatment systems, washing systems, swimming pools, and plant processes.

**Features and benefits**
- Precise capacity setting directly in gph or L/hr
- Different motor configuration (AC, DC steeper, synchronous)
- Full diaphragm control
- Digital flow capacity setting
- Control panel with display and one-touch buttons
- Front- or side-fitted control panel
- Manual/pulse/4-20mA control
- Control panel lock
- 4-20 mA control
- Pulse-based batch control
- Timer-based batch control
- Easy calibration/easy priming
- Fieldbus communication module (option)
- Optional alarm relay connection
Instrumentation

Compact measuring systems

Applications

For chlorine, chlorine dioxide and ozone combined potentiostatic measuring cells of type AquaCell have been developed, with an electric cleaning motor or with hydromechanical electrode cleaning.

Features and benefits

- Proven potentiostatic three-electrode measuring method directly in the sample water
- Optimized electrode cleaning
- Integrated temperature measurement
- Special measuring chamber with calibration cup for pH single-rod probe and redox electrode
- Non-wearing and counter electrode
- Easy exchange of the reference electrode
- Compound loop control available

Oxiperm OCD, OCC, OCG

Chlorine dioxide generators

Technical data

Dilute acid - chlorite generation:
- Oxiperm OCD-162: 5-60 g/h (0.25 - 3.00 lb/day)
- Oxiperm OCD-164: 30-2000 g/h (1.5 - 105 lb/day)

Concentrated acid - chlorite generation:
- Oxiperm OCC-164: 150 g/h - 10 kg/h (8 - 525 lb/day)

Chlorite - chlorine generation:
- Oxiperm OCG-166: 0.75 - 10 kg/h (40 - 525 lb/day)

Applications

Disinfection in water and wastewater treatment systems, utility water, water conditioning, food and beverage and plant processes.

Features and benefits

- Safe and reliable generation of chlorine dioxide through proven methods of superior disinfection
- Easy to use controls and operations
- High efficiency generation of chlorine dioxide with a minimum of by-products
- Low chemical consumption
- Batch and continuous feed generators
- Fieldbus and alarm communication
- Generation using dilute or concentrated precursor chemicals

Selcoperm SES

Onsite sodium hypochlorite generators

Technical data

Selcoperm electrolytic Cl₂ generator up to 2000 + kg/h (440 lb/h)

Applications

Disinfection in water and wastewater treatment systems, groundwater supply, utility water, water conditioning, food and beverage and plant processes.

Features and benefits

- Safe and reliable generation of stable sodium hypochlorite solutions on location to minimize risks and costs
- Generation of sodium hypochlorite with salt and electricity, reducing plant operation costs
- Integrated generation system that reduces hydrogen gas exposure
- Interlocked safety devices and control systems for easy operation
- No explosion proof environments required for installation
- Durable, long-lasting equipment requiring a minimum of service
MTA, MTC, CRK, MTR, SPK

Multistage centrifugal immersible pumps

Technical data
Flow, Q: max. 450 gpm
Head, H: max. 970 ft
Liquid temp.: -4°F to +194°F
Working press.: max. 362 psi

Applications
The pumps are suitable for liquid transfer in:
• EDM machine tools
• Grinding machines
• Machining centers
• Cooling units
• Industrial washing machines
• Filtering systems
• Lathes
• Chip conveyors
• Condensate

Features and benefits
• Flexible installation length
• Wide range
• Reliable
• Service-friendly
• Simple installation

CM

Compact horizontal multistage pumps

Technical data
Flow, Q: max. 154 gpm
Head, H: max. 425 ft
Liquid temp.: -4°F to +248°F
Working press.: max. 145 psi

Applications
The pumps are suitable for liquid transfer in:
• Washing and cleaning
• Water treatment
• Temperature control
• Pressure boosting
• Distilling systems
• Comprised machinery

Features and benefits
• Compact design
• Wide performance range
• Variety of material versions
• Low noise
• High reliability
• Service-friendly
• Customized solutions

CME

Compact horizontal multistage pumps-integrated VFD

Technical data
Flow, Q: max. 154 gpm
Head, H: max. 425 ft
Liquid temp.: -4°F to +248°F
Working press.: max. 145 psi

Applications
The pumps are suitable for liquid transfer in:
• Washing and cleaning
• Water treatment
• Temperature control
• Pressure boosting
• Distilling systems
• Metering/mixing

Features and benefits
• Compact design
• Wide range performance
• Variety of material versions
• Low noise
• High reliability
• Service-friendly
• Customized solutions
• Controlled operation
• Constant pressure
• Energy savings
• Increased comfort
• Pump and application monitoring

Optional
• Wireless remote control, R100
**CR-H, CRE-H**

Horizontal end-suction multistage pumps

**Technical data**
- Flow, Q: max. 210 gpm
- Head, H: max. 995 ft
- Liquid temp.: -22°F to +248°F
- Working press.: max. 435 psi

**Applications**
The pumps are suitable for liquid transfer in:
- Pressure boosting
- Industrial processes
- Boiler feed
- Liquid transfer
- Irrigation
- ANSI B73.1 replacement

**Features and benefits**
- Low profile horizontal design
- Cartridge shaft seal
- Maximized efficiency
- Service-friendly
- Dimensional versions

**Optional**
- Grundfos baseplate
- Wireless remote control, R100

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**CR, CRI, CRN**

Vertical in-line multistage pumps

**Technical data**
- Flow, Q: max. 792 gpm
- Head, H: max. 995 ft
- Liquid temp.: -22°F to +248°F
- Working press.: max. 435 psi

**Applications**
The pumps are suitable for liquid transfer in:
- Washing systems
- Cooling and air conditioning systems
- Water supply systems
- Water treatment systems
- Fire fighting systems
- Industrial plants
- Boiler feed systems

**Features and benefits**
- Reliability
- High efficiency
- Service-friendly
- Space-saving
- Suitable for slightly aggressive liquids

**Optional**
- Dry-running protection and motor protection via LiqTec™

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**CRE, CRIE, CRNE**

Multistage centrifugal pumps electronically controlled

**Technical data**
- Flow, Q: max. 790 gpm
- Head, H: max. 820 ft
- Liquid temp.: -22°F to +248°F
- Working press.: max. 435 psi

**Applications**
The pumps are suitable for liquid transfer in:
- Washing systems
- Cooling and air conditioning systems
- Water supply systems
- Water treatment systems
- Fire fighting systems
- Industrial plants
- Boiler feeding systems

**Features and benefits**
- Wide range
- Reliability
- In-line design
- High efficiency
- Service-friendly
- Space-saving
- Many control facilities

**Optional**
- Wireless remote control, R100
Technical data
Flow, Q: max. 675 gpm
Head, H: max. 350 ft
Liquid temp.: max. 302°F
Working press.: max. 232 psi

Applications
The pumps are suitable for liquid transfer in:
• Food and beverage
• Water treatment systems
• Life science/pharmaceutical
• Personal care

Features and benefits
• Reliability
• Hygienic design
• Service-friendly
• CIP/SIP capable

Optional
• Motor support
• Mechanical seal configuration

Technical data
Flow, Q: max. 0.5 g/rev
Head, H: max. 300 psi
Liquid temp.: max. 302°F
Working press.: max. 580 psi

Applications
The pumps are suitable for liquid transfer in:
• Food and beverage
• Water treatment systems
• Life science/pharmaceutical
• Personal care
Other:
• Pulp and paper, textile and chemical

Features and benefits
• Constant pressure
• Simple installation
• Low-energy
• Wide range

Optional
• External communication, Control 2000

Technical data
Flow, Q (³ pump system): max. 790 gpm
Head, H: max. 820 ft
Liquid temp.: -22°F to +248°F
Working press.: max. 435 psi

Applications
• Residential/commercial buildings
• Irrigation
• Water supply systems
• Industrial applications

Features and benefits
• Constant pressure, variable speed control
• Simple installation
• Low-energy consumption
• Reduced maintenance

Optional
• External communication supports other fieldbus protocols such as Modbus, Profibus, LON, BACnet and more.
**Hydro Multi-E**

Multiple packaged pump system

**Technical data**
- Flow, Q (4 pump system): max. 2200 gpm
- Head, H: max. 535 ft
- Liquid temp.: +32°F to +176°F
- Working press.: max. 232 psi

**Applications**
- Residential/commercial buildings
- Water supply systems
- Industrial applications
- HVAC applications

**Features and benefits**
- Constant pressure, all variable speed control
- Simple installation
- Low-energy consumption
- Wide range

**Optional**
- External communication supports other fieldbus protocols such as Modbus, Profibus, LON, BACnet and more.

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**BoosterpaQ® Hydro MPC**

Advanced packaged pump system

**Technical data**
- Flow, Q (4 pump system): max. 2540 gpm
- Flow, Q (6 pump system): max. 3800 gpm
- Head, H: max. 500 ft
- Liquid temp.: +32°F to +176°F
- Working press.: max. 232 psi

**Applications**
- BoosterpaQ systems are suitable for pressure boosting in:
  - Water supply systems
  - Irrigation systems
  - Water treatment systems
  - Fire fighting systems
  - Industrial plants
  - HVAC systems

**Features and benefits**
- Constant pressure, all variable speed control
- Simple installation
- Low-energy consumption
- Wide range
- Many advanced control functions
- Intuitive control interface

**Optional**
- Supports other fieldbus protocols such as Modbus, Profibus, LON, BACnet and more.

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**HS**

Single-stage end suction pumps

**Technical data**
- Flow, Q: max. 175 gpm
- Head, H: max. 160 ft
- Liquid temp.: max. 180°F continuous
- Working press.: max. 125 psi

**Applications**
- The pumps are suitable for liquid transfer in:
  - Water circulation
  - Pressure boosting
  - Filter systems
  - Cooling systems
  - Water supply
  - Other industrial systems

**Features and benefits**
- Wide range
- Compact design
- Standard motor
- Carbon/ceramic shaft seal
- Bronze impeller
**BM, BMB**

4", 6", and 8" booster modules

**Technical data**
- Flow, Q: max. 1320 gpm
- Head, H: max. 1595 ft
- Liquid temp.: +32°F to +104°F
- Working press.: max. 1160 psi

**Applications**
The booster modules are suitable for pressure boosting in:
- Reverse osmosis systems
- Water supply systems
- Water treatment systems
- Industrial plants

**Features and benefits**
- Low-noise
- Simple installation
- Modular design
- Compact design
- Sealless

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**BME, BMET**

High-pressure booster systems

**Technical data**
- Flow, Q: max. 570 gpm
- Pressure, p: max. 1015 psi
- Liquid temp.: +32°F to +104°F
- Working press.: max. 1160 psi

**Applications**
The booster systems are suitable for pressure boosting in:
- Reverse osmosis systems
- Water supply systems
- Water treatment systems
- Industrial plants

**Features and benefits**
- High-pressure/high-flow
- Low-energy
- Simple installation
- Compact design

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**LiqTec™**

Control and monitoring unit

**Applications**
- Monitoring and protection of pumps and processes

**Features and benefits**
- Protection against dry running and excessive motor temperatures
- Manual or automatic restarting possible from a remote PC
- Simple installation - plug-and-play technology
- Robust sensor

**Note**
- Available for CR only

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**R100**

Wireless remote control

**Applications**
- All pumps and electronics designed for wireless communication

**Features and benefits**
- Simple and quick installation and configuration of the pump controls
- Read out of various operating and fault signals
- Troubleshooting
- Print out of status information

**Note**
Products that can communicate with the R100:
- MLE, CRE, CU 300, CU 301, CME, Multi-E, MAGNA, TPE
SQ

3” submersible pump

Technical data
Flow, Q: max. 40 gpm
Head, H: max. 640 ft
Liquid temp.: +32°F to +104°F
Instal. depth: max. 500 ft

Applications
The pumps are suitable for:
• Domestic water supply
• Irrigation in horticulture and agriculture
• Groundwater de-watering
• Industrial applications

Features and benefits
• Integrated dry-running protection
• Soft start
• Over, and undervoltage protection
• High-starting torque
• Overload protection

SmartFlo™ SQE
Constant Pressure System

SQE pump and CU 301 Control Unit

Technical data
Flow, Q: max. 40 gpm
Head, H: max. 640 ft
Liquid temp.: +32°F to +104°F
Instal. depth: max. 500 ft

Applications
The pumps are suitable for:
• Domestic water supply
• Irrigation in horticulture and agriculture
• Groundwater de-watering
• Industrial applications

Features and benefits
• Constant water pressure under varying demands.
• Integrated dry-running protection
• Soft start
• Over-and undervoltage protection
• High-starting torque
• Overload protection

Optional
• CU 301 can be monitored and controlled via R100

SQFlex

Renewable energy based water supply system

Technical data
Flow, Q: max. 85 gpm
Head, H: max. 820 ft
Liquid temp.: +32°F to +104°F
Voltage supply: 30-300 VDC or 1 x 90-240 V, 50/60 Hz
Instal. depth: max. 492 ft

Applications
The SQFlex systems are suitable for water supply in remote locations, such as:
• Livestock watering
• Farms and irrigation of greenhouses
• Camps
• Conservation areas
• Remote homes and cabins

Features and benefits
• Energy supply: solar modules, wind turbine, AC generator
• Simple installation
• Reliable water supply
• Virtually no maintenance
• Expansion possibilities
• Cost-efficient pumping
• Integrated controls/inverter
SP

4", 6", 8" and 10" submersible pumps

Technical data
Flow, Q: max. 1,400 gpm
Head, H: max. 2,100 ft
Liquid temp.: +32°F to +140°F
Instal. depth: max. 1968 ft

Applications
The pumps are suitable for:
• Groundwater supply to waterworks
• Irrigation in horticulture and agriculture
• Groundwater de-watering
• Pressure boosting
• Industrial applications
• Domestic water supply

Features and benefits
• High efficiency
• Stainless steel components provide long service life
• Motor protection via CU 3
• Variable frequency drive compatible motors

Optional
• Motor protection via MP 204
• Performance data can be monitored via CU 3/R100/PC Tool MP 204

MS motors

Stainless steel 4" and 6" submersible motors.

Motor sizes
4" motor: 0.5 to 10 hp
6" motor: 7.5 to 40 hp

Applications
The Grundfos MS submersible motors can be fitted on all Grundfos pumps and can be used in the high-pressure booster modules, types BM and BMB.

Features and benefits
• Overprotection by means of a built-in Tempcon temperature transmitter
• Standardized NEMA head and shaft end
• Completely encapsulated in stainless steel
• Liquid cooled and has liquid lubricated bearings
• Variable frequency drive compatible motors

Optional
• Material variations available

Control Box SA-SPM5

Product range
• Standard: 0.5 hp to 5 hp
• Delux: 1.5 hp to 5 hp
• CSCR: .33 hp to 1 hp

Enclosure
• NEMA Type 3R
• Gray epoxy coated
• 18-gauge steel construction

Features and benefits
• Pull handle disconnect
• Safety shield
• UL-recognized mallory start capacitor
• UL-recognized general electric
• Voltage relay
• Progressive knockouts
• 0.5 hp to 1 hp PumpSaver ready

MMS

Stainless steel 6", 8", and 10" submersible motors.

Motor sizes
6" motor: 50 hp
8" motor: 40 to 150 hp
10" motor: 100 to 250 hp

Applications
The Grundfos MS submersible motors can be fitted on all Grundfos pumps and can be used in standard groundwater systems.

Features and benefits
• Standardized NEMA head and shaft end on 6 and 8 inch. Keyed shaft for Grundfos pumps on 10 inch
• Built in port for pt100 temperature probe
• Wet wound motor for greater cooling
• Variable frequency drive compatible motors

Optional
• All stainless version in 316 or 904L
**Redi-Flo2® and Redi-Flo4™**

**Redi-Flo2 Technical data**
- Flow, Q: max. 10.5 gpm
- Head, H: max. 312 ft
- Liquid temp.: +32°F to +95°F

**Redi-Flo4 Technical data**
- Flow, Q: max. 50 gpm
- Head, H: max. 600 ft
- Liquid temp.: +32°F to +104°F

**Applications**
- Sampling
- Remediation
- De-watering

**Features and benefits**
- Light and compact design
- Fits into 2" boreholes
- Provides precise, accurate, and reproducible groundwater samples

**Redi-Flo3™ and CU 300**

**Technical data**
- Flow, Q: max. 42 gpm
- Head, H: max. 640 ft
- Liquid temp.: +32°F to +104°F
- Instal. depth: max. 500 ft

**Applications**
- Pumping up contaminated groundwater
- Sampling
- Remedial pumping
- De-watering

**Features and benefits**
- External sensor control of pump
- Flexible configuration capabilities
- Monitoring, configuration and control via R100 or PC Tool CU 300

**MP 204**

**Control and monitoring units**

**Applications**
- Monitoring and protection of pump installations

**Features and benefits**
- Protection against dry running, motor over temperature, overload, overvoltage, undervoltage, current and phase imbalance
- Constant monitoring of power consumption

**Optional**
- Connection to large control systems via bus communication
- Connection of sensors enabling control based on sensor signals
- Configure setup and monitor operating data via R100

(Trademarks and Tradenames mentioned herein are the properties of their respective owners.)
CUE

The CUE is a series of frequency converters designed for speed control of a wide range of Grundfos pumps. Typical uses include constant pressure, constant level, and constant flow.

Comprehensive range
- 1-phase, 1x200-240 V, 50/60 Hz (1.5 - 10 hp)
- 3-phase, 3x200-240 V, 50/60 Hz (1 - 60 hp)
- 3-phase, 3x380-500 V, 50/60 Hz (0.75 - 300 hp)
- 3-phase, 3x525-600 V, 50/60 Hz (1 - 10 hp)
- 3-phase, 3x525-690 V, 50/60 Hz (10 - 300 hp)

Applications
- Water supply and pressure boosting
- Heating and air-conditioning
- Process and sanitary applications
- Groundwater

Features and benefits
- Intuitive start-up guide
- Smart user interface
- Automatic direction of rotation
- Low flow stop function
- Soft start
- Duty/standby
- Motor bearing supervision

Fieldbus Products

The Grundfos family of fieldbus products serve as translators between the Grundfos GENIbus protocol and Modbus, BACnet, LonWorks, and Profibus. These devices allow for easy integration of Grundfos E-Products into SCADA systems. Additionally, a GSM version will be available which provides cell phone text messaging of any alarms that may occur.

Technical data
- Supply voltage: 24-240 VAC/VDC
- Power consumption: max. 11W
- Ambient temp.: -4 to 113°F
- Enclosure class: NEMA 3R

Product type
- CUE (Communication Interface Unit)
- Stand-alone enclosure

Applications
- Modbus RTU
- Profibus DP
- LonWorks - LonMark functional profile 8120
- BACnet
- GSM - SMS cell phone texting

Grundfos products supported
- E-Pumps - CRE, TPE, MAGNA, Multi-E
- Pump Controls - BoosterPQ Hydrop MPC, Control MPC, MP204
- VFD's - CUE

CIU

Fieldbus Products

The Grundfos family of fieldbus products serve as translators between the Grundfos GENIbus protocol and Modbus, BACnet, LonWorks, and Profibus. These devices allow for easy integration of Grundfos E-Products into SCADA systems. Additionally, a GSM version will be available which provides cell phone text messaging of any alarms that may occur.

Technical data
- Supply voltage: 24-240 VAC/VDC
- Power consumption: max. 11W
- Ambient temp.: -4 to 113°F
- Enclosure class: NEMA 3R

Product type
- CIU (Communication Interface Unit)
- Stand-alone enclosure

Applications
- Modbus RTU
- Profibus DP
- LonWorks - LonMark functional profile 8120
- BACnet
- GSM - SMS cell phone texting

Grundfos products supported
- E-Pumps - CRE, TPE, MAGNA, Multi-E
- Pump Controls - BoosterPQ Hydrop MPC, Control MPC, MP204
- VFD's - CUE

EZ Boost

Constant pressure system

Flow, Q: max. 39 gpm
Head, H: max. 300 ft
Liquid temp.: +32°F to +95°F
Working press.: max. 347 psi
Inlet press.: min. 8 psi

Applications
- EZ Boost systems are suitable for pressure boosting in:
  - Water supply systems
  - Irrigation systems
  - Water treatment systems

Features and benefits
- Constant water pressure under varying demands
- Simple installation
- High efficiency
- Integrated variable speed
- Soft start
- Integrated dry-running protection
- Overload and over temperature protection
** MQ **

Flow based pressure boosting system

** Technical data **
- Flow, Q: max. 18 gpm
- Head, H: max. 145 ft
- Liquid temp.: +32°F to +95°F
- Working press.: max. 109 psi
- Inlet press.: min. 44 psi

** Applications **
The MQ pump is designed for water supply and pressure boosting in:
- Homes
- Cabins, cottages
- Farms as well as gardens
- Of potable water and rain water.

** Features and benefits **
- Complete system
- Easy installation
- Simple operation
- Self-priming
- Built-in protective functions
- Automatic reset

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** Jets JPF, JDF, JPS **

Basic Line Jet

** Technical data **
- Flow, Q: max. 1.7 to 35 gpm
- Head, H: max. 135 to 200 ft
- Working press.: 87 to 110 psi
- Motor power: 1/3 to 2 hp

** Applications **
Shallow well, deep well and convertible pump applications. Self-priming centrifugal pumps suitable for domestic water supply systems, light agricultural and industrial water transfer applications.

** Features and benefits **
- Full range of shallow/deep well jet pumps
- I.E.C. motors for better efficiency, longer life, and quieter operation
- Rugged cast iron models (JPF, JDF)
- Corrosion-resistant stainless steel (JPS)
- Built-in thermal overload for motor protection

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** Unilift KP **

Submersible Drainage Pump

** Technical data **
- Flow, Q: max. 65 gpm
- Head, H: max. 32 ft
- Liquid temp.: 32°F to 122°F
- Particle size: max. 0.4".
- Material: Stainless Steel

** Applications **
The pumps are suitable for:
- Raw water, drainage and untreated wastewater containing solids no larger than 0.4” from households, farms, and small industry.

** Features and benefits **
- Hermetically-sealed stator house
- Automatic or manual operation
- Installed as a permanent or portable pump
**Unilift CC**

Submersible drainage pump

**Technical data**
- Flow, Q: max. 62 gpm
- Head, H: max. 30.8 ft
- Liquid temp.: 32°F to 104°F
- Particle size: max. 0.4”
- Material: Composite
- Suction: down to 0.12”

**Applications**
The pumps are suitable for:
- Raw water, drainage and untreated wastewater containing solids no larger than 0.4” from households, farms, and small industry.

**Features and benefits**
- Corrosion-free, lightweight composite sleeve
- Strong stainless steel strainer
- Stainless steel inside for maximum strength
- Removes water to as low as 0.12”

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**Unilift AP12, AP35, AP50**

Submersible effluent & domestic sewage pumps

**Technical data**
- Flow, Q: max. 155 gpm
- Head, H: max. 52 to 52 ft
- Liquid temp.: 32°F to 131°F
- Particle size: max. 0.5” to 2.0”
- Material: Stainless steel

**Applications**
The pumps are suitable for:
- Raw and dirty water, drainage and untreated water, solids up to 2”

**Features and benefits**
- Field replaceable cable
- High-quality stainless steel
- Robust construction
- Pumps up to 2.0” solids

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**Unilift AP35B, AP50B**

Submersible effluent & domestic sewage pumps

**Technical data**
- Flow, Q: max. 136 gpm
- Head, H: max. 49 ft
- Liquid temp.: 32°F to 104°F
- Particle size: max. 1.4” to 2.0”
- Material: Stainless steel

**Applications**
The pumps are suitable for:
- Raw and dirty water, drainage and untreated water, solids up to 2”

**Features and benefits**
- Field replaceable cable
- High-quality stainless steel
- Robust construction
- Pumps up to 2.0” solids
**JPF, JPS Tank Package**

Packaged systems

**Technical data**
- Flow, Q: max. 15 gpm
- Head, H: max. 131 ft
- Liquid temp.: +32°F to +131°F
- Working press.: max. 87 psi

**Applications**
The pumps are suitable for liquid transfer in:
- Households
- Gardens
- Hobby activities
- Agriculture
- Small industries

**Features and benefits**
- Self-priming
- Stable operation even in case of air pockets in the liquid
- Stainless steel diaphragm tank

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**Hydrosolo-E**

Pressure booster system

**Technical data**
- Flow, Q: max. 630 gpm
- Head, H: max. 995 ft
- Liquid temp.: -22°F to +250°F

**Applications**
The pumps are suitable for:
- Transfer and pressure boosting of clean water in houses, cottages, farms, small commercial and residential building
- Pressure boosting in other systems e.g., process water systems and irrigation

**Features and benefits**
- Eliminates control valves and problematic pressure storage tanks
- Harmonic distortion protection built in
- Lower energy consumption
- Less pump noise
- Easy to set up and operate
- Comprehensive protection of drive, motor and pump equipment
- Reduced maintenance
- Eliminates current in-rushes on the AC line
- Protection from extreme voltage and temperature conditions

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**Hydrosolo-S**

Pressure booster system

**Technical data**
- Flow, Q: max. 620 gpm
- Head, H: max. 270 ft
- Liquid temp.: -22°F to +248°F
- Working press.: 362 psi

**Applications**
The pumps are suitable for:
- Transfer and pressure boosting of clean water in houses, cottages, farms, small commercial and residential building
- Pressure boosting in other systems e.g., process water systems and irrigation

**Features and benefits**
- Hydro Solo-S is compact
- Maintenance-free
- Easy to install
WHY E-SOLUTIONS?

BECAUSE SPEED CONTROL IS AT THE HEART OF THE MATTER
At Grundfos, we continuously strive to develop pump solutions that work efficiently and minimize energy consumption for the benefit of our customers and the surrounding environment.

Our full line of E-solutions with variable-speed functionality is a good example of how we think about sustainability.

LESS SPEED, MORE SAVINGS
There are several good reasons for choosing a Grundfos E-solution with speed control over a conventional fixed-speed pump.

In most applications where output needs vary during the day or with the seasons, substantial energy savings can be gained by regulating the pump’s speed according to the pump demand.

The frequency converter adjusts the speed to meet the pump demand so that energy is never wasted. The result is energy savings of up to 50% annually. Simple and quick installation and commissioning also contribute to reducing total life cycle costs.

INCREASED COMFORT
Grundfos E-solutions offer all the comfort you expect from a high-quality pump solution.

The E-solutions soft-start feature eliminates water hammer and flow noise from valves caused by excessively high pressure.

COMPLETE PROCESS CONTROL
E-solutions are renowned for their unique functionality. You have total control of your pump application and processes at all times.

The advanced pump functionality provides extensive possibilities for complete process control.
E-SOLUTIONS FEATURES AND FUNCTIONALITY

Grundfos E-solutions cover most pump types, applications, and power supplies. Whether you choose an integrated E-pump or a wall-mounted CUE solution, you get the special E-pump features and functionality:

- Built-in PID controller for constant pressure, constant liquid level in a tank, constant flow, or constant temperature operation
- Automatic stop function for water supply applications
- Proportional pressure function for circulator pump applications
- External control of setpoint is available
- Optional external communication supports other fieldbus protocols including: Modbus, Profibus, LON, BACnet & more

BENEFITS IN SHORT

- Reduced life cycle costs
- Substantial energy savings
- Reduced CO₂ emissions
- Easy installation and commissioning
- Advanced features and functionality
- Increased comfort
- Remote control and monitoring
- All components from one supplier
The Grundfos Service Commitment

Every Grundfos product is built to set new standards in performance and reliability. Our products are backed by a proven and extensive commitment to service, evidenced by:

- International service support
- Service kits and parts
- 10-year availability of spare parts
- Repairs made to production standards
- Complete testing services
- Service tools and technical documentation
After-Sales Service Options

1. Extensive spare parts kits availability with service manuals, installation guides, and tools.

2. Factory-authorized service centers in Canada, Mexico, and the United States.

3. Factory service at one of our sales locations in:
   - Apodaca, N.L. Mexico • Oakville, Ontario, Canada
   - Fresno, California, USA • Allentown, Pennsylvania, USA

Authorized North and Central America Service Centers

Call us to find the authorized service center nearest you:

In Canada: 905.829.9533
In Mexico: 011.52.81.8144.4000
In the USA: 559.292.8000

Or visit our website at www.grundfos.com