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 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.

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<td>Circulator pumps for circulation of hot water in central and district heating systems and circulation in domestic hot water service systems.</td>
<td>Circulator pumps for circulation of cold water and other liquids in cooling and air conditioning systems.</td>
<td>A wide range of multistage pumps for the transfer of water, cooling lubricants, and other liquids in industrial and process systems.</td>
<td>Vertical and horizontal centrifugal pumps, and pressure boosting systems for liquid transfer and boosting of hot and cold water.</td>
<td>Hygienic end-suction centrifugal, rotary positive displacement, self-priming and multistage pumps for food, beverage, and pharmaceutical process systems.</td>
<td>Submersible pumps for groundwater supply, irrigation and groundwater de-watering.</td>
<td>Submersible pumps, jet pumps, multistage centrifugal pumps and compact systems for water supply in homes, gardens, and hobby applications.</td>
<td>Drainage, sump, effluent and sewage pumps for a wide range of applications in building services.</td>
<td>Purpose-built submersible pumps for remedial pumping of contaminated groundwater and for groundwater sampling for water quality analyses.</td>
<td>Dosing pumps and disinfection generators for water treatment systems, RO, cooling and heating, swimming pools, process industries, food and beverage, water supply and wastewater.</td>
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**Product and Application Overview**

**Application**
- Heating and hot water service systems
- Cooling and air conditioning systems
- Industrial applications
- Pressure boosting and liquid transfer
- Sanitary
- Groundwater supply
- Domestic water supply
- Sewage and wastewater
- Environmental applications
- Dosing / Disinfection

**Product Name**

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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 27 ft
- Min. fluid temp: max. 36°F
- Max. fluid temp: max. 145 psi
- Motor: Single phase, 230V
- Voltage: 1 x 230V
- HP range: 1/3 to 1 hp

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

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

**Optional**
- Timer
- Line Cord
- Aquastat

---

**Comfort System Hot Water Recirculation Kit**

Stainless steel wet-rotor, circulation pumps

**Technical data**
- Flow, Q: 0 to 4 gpm
- Head, H: 0 to 37 ft
- Min. fluid temp: max. 36°F
- Max. fluid temp: max. 175 psi
- Motor: Single phase, 230V
- Voltage: 1 x 230V
- HP range: 1/8 to 1 hp

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

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

**Optional**
- Timer
- Line Cord
- Aquastat

---

**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 15 ft
- Min. fluid temp: max. 36°F
- Max. fluid temp: max. 230°F
- Motor: Single phase, 230V
- Voltage: 1 x 230V
- HP range: 1/8 to 1 hp

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

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

**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 3.4 gpm
- Head, H: 0 to 3 ft
- Min. fluid temp: min. 36°F
- Max. fluid temp: max. 150°F
- Motor: Single phase, 115V
- Voltage: 1 x 115V
- HP range: 1/8 to 1 hp

**Applications**
- Open and closed systems
- Circulation of hot water in:
  - Heating systems

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

**Optional**
- Timer
- Line Cord

---

**VersaFlo® UP, UPS**

Large multi-speed wet-rotor circulators

**Technical data**
- Flow, Q: 9 to 270 gpm
- Head, H: 1 to 62 ft
- Min. fluid temp: min. 36°F
- Max. fluid temp: max. 230°F
- Motor: Single phase, 230V
- Voltage: 1 x 230V
- HP range: 1/8 to 1 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**
- Maintenance-free
- Low noise
- Low energy consumption
- Wide range
- Corrosion-resistant stainless steel

**Optional**
- Timer
- Line Cord

---

**MAGNA**

Large variable speed wet-rotor circulators

**Technical data**
- Flow, Q: 10 to 170 gpm
- Head, H: 1 to 42 ft
- Min. fluid temp: min. 36°F
- Max. fluid temp: max. 230°F
- Motor: 1x230V Permanent Magnet motor with integrated VFD

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

**Features and benefits**
- Energy Optimization with AUTOADAPT™
- Sensor-less control
- Quiet, maintenance free
- Built-in motor protection
- Industry standard flange-to-flange
  - Cast iron or bronze

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

Close coupled in-line circulators; TPE electronically controlled

Technical data
Flow, Q: 8 to 300 gpm
Head, H: 3 to 67.5 ft
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:
  - Heating systems
  - Distillate 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 and maintenance-free operation
- Various types of shaft seals depending on liquid, temperature, and pressure

Optional
- Wireless remote control, RJ11
- Bronze pump housing
- CLU is available for fieldbus communication

LM, LP

Close coupled in-line circulators

Technical data
Flow, Q: 10 to 600 gpm
Head, H: 8 to 180 ft
Working press.: max. 210 psi
Ambient temp.: max. 104°F
HP range: 3/4 to 2 hp

Applications
- Industrial applications
- 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)
Head, H: max. 2900 psi
Pressure, p: max. 2000 psi
Liquid temp.: max. 275°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, stepper, synchronous)
- Full diaphragm control
- Digital flow capacity setting
- Control panel with display and one-touch buttons
- Front or side-fitted control panel
- Mains/pulse/20mA and 4-20mA control
- Control panel lock
- 4-20 mA control
- Pulse-based batch control
- Easy calibration/easy priming
- Fieldbus communication module (option)
- Optional alarm relay connection

Instrumentation

Compact measuring systems

Technical data
Capacitance, C: 8 kF
Capacity, Q: max. 278 gph

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, stepper, synchronous)
- Full diaphragm control
- Digital flow capacity setting
- Control panel with display and one-touch buttons
- Front or side-fitted control panel
- Mains/pulse/20mA and 4-20mA control
- Control panel lock
- 4-20 mA control
- Pulse-based batch control
- Easy calibration/easy priming
- Fieldbus communication module (option)
- Optional alarm relay connection

Oxiperm OCD, OCC, OCG

Chlorine dioxide generators

Technical data
- Dilute acid - chlorine generation:
  - Oxiperm OCD-162
    - 6-60 g/h
    - (1.5 - 105 lb/day)
  - Oxiperm OCD-164
    - 20-1000 g/h
    - (5 - 255 lb/day)
- Concentrated acid - chlorine generation:
  - Oxiperm OCG-164
    - 150 g/h - 10 kg/h
    - (4 - 255 lb/day)
  - Oxiperm OCG-166
    - 0.75 - 10 kg/h
    - (20 - 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
- Drinking water and wastewater treatment systems, ground water 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
Multistage centrifugal immersible pumps

MTA, MTC, CRK, MTR, SPK

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

Technical data
Flow, Q: max. 450 gpm
Head, H: max. 970 ft
Liquid temp.: -4°F to +248°F
Working press.: max. 362 psi

Applications
- Industrial washing machines
- Cooling units
- Machining centers
- Grinding machines
- Flexible installation features and benefits
- EDM machine tools
- Chip conveyors
- Lathes
- Filtering systems
- Compressed machinery

Compact horizontal multistage pumps

CM

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
- Washing and cleaning
- Pressure boosting
- Temperature control
- Water treatment
- High reliability
- Energy savings
- Increased comfort
- Pump and application monitoring

Optional
- Wireless remote control, R100

Compact horizontal multistage pumps-integrated VFD

CME

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
- Washing and cleaning
- Temperature control
- Water treatment
- High reliability
- Energy savings
- Increased comfort
- Pump and application monitoring

Optional
- Wireless remote control, R100

Horizontal end-suction multistage pumps

CR-H, CRE-H

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
- Pressure boosting
- Industrial processes
- Boiler feed
- Liquid transfer
- Pressure boosting
- Fire fighting systems
- Industrial plants
- Boiler feed systems

Optional
- Wireless remote control, R100

Features and benefits
- 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

Vertical in-line multistage pumps

CR, CRI, CRN

Technical data
Flow, Q: max. 792 gpm
Head, H: max. 820 ft
Liquid temp.: -22°F to +248°F
Working press.: max. 435 psi

Applications
- Cooling and air conditioning systems
- Water supply systems
- Water treatment systems
- Fire fighting systems
- Industrial plants
- Boiler feeding systems

Optional
- Wireless remote control, R100

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

Multistage centrifugal pumps electronically controlled
Technical data
Flow, Q: max. 175 gpm
Head, H: max. 160 ft
Liquid temp.: max. 180°F
Working press.: max. 125 psi

Applications
The pumps are suitable for liquid transfer in:
• Water circulation
• Pressure boosting
• Filter systems
• Cooling systems

Features and benefits
• Wide range
• Compact design
• Standard motor
• Carbon/ceramic shaft seal
• Bronze impeller

Technical data
Flow, Q: max. 0.5 gpm/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

Features and benefits
• Constant pressure
• Simple installation
• Low-energy consumption
• Reduced maintenance

Technical data
Flow, Q: max. 675 gpm
Head, H: max. 350 ft
Liquid temp.: +32°F to +176°F
Working press.: max. 232 psi

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

Features and benefits
• Reliability
• Hygenic design
• Service-friendly

Technical data
Flow, Q (1 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
• HVAC 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, Profinet, Lon, BACnet and more.

Technical data
Flow, Q (4 pump system): max. 2540 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
• Fire fighting systems

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, Profinet, Lon, BACnet and more.
**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 control/inverter

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**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

- 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

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**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

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**BM, BMB**

4”, 6”, and 8” booster modules

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**BME, BMET**

High-pressure booster systems

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**LiqTec™**

Control and monitoring unit

### 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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**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 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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**note**

Products that can communicate with the R100

- MLE, CRI, CU 300, CU 301, CME, Multi-E, MAGNA, TPE

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**BM, BMET**

High-pressure booster systems

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**Technical Data**

- **Flow, Q:** max. 570 gpm
- **Pressure, p:** max. 1160 psi
- **Liquid temp.:** +32°F to +104°F
- **Instal. depth:** max. 500 ft

**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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**note**

Products that can communicate with the R100

- MLE, CRI, CU 300, CU 301, CME, Multi-E, MAGNA, TPE
**Technical data**

**Flow, Q**: max. 1,400 gpm

**Head, H**: max. 2,100 ft

**Liquid temp.:** +32°F to +140°F

**Applications**

- Groundwater supply to waterworks
- Irrigation in horticulture and agriculture
- Industrial applications
- Pressure boosting
- Groundwater de-watering
- Remediation
- De-watering

**Features and benefits**

- Motor protection via CU 3
- Fit into 2” boreholes
- Provides precise, accurate, and reproducible groundwater samples

**Redi-Flo2 Features and benefits**

- Construction of virgin Teflon®
- Fit into 3/4” bores
- All stainless steel construction (Trademarks and Tradenames mentioned here are the properties of their respective owners)

**Applications**

- Monitoring and protection of pump installations
- 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

**Optional**

- Connection of sensors enabling control based on sensor signals
- Configure setup and monitor operating data via R100

**SQE-NE**

- All of the features of the SQE, but designed for environmental applications
- All 316 SS construction
- Inert composites

**Redi-Flo3 and Redi-Flo4**

**Applications**

- Sampling
- Remedial pumping
- De-watering

**Features and benefits**

- Monitoring and protection of pump installations
- 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

**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

**SQE-NE**

- All of the features of the SQE, but designed for environmental applications
- All 316 SS construction
- Inert composites
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, 1x200-240V, 50/60 Hz (1.5-10 hp)
- 3-phase, 3x380-415V, 50/60 Hz (0.75-300 hp)
- 3-phase, 3x525-690V, 50/60 Hz (10-300 hp)

**Applications**
- Water supply and pressure boosting
- Heating and air-conditioning
- Automatic direction of rotation
- Smart user interface
- Process and sanitary applications
- 1-phase, 1x200-240V, 50/60 Hz (1.5-10 hp)

**Grundfos products supported**
- CIU (Communication Interface Unit)
- EZ Boost
- MQ

**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 CoM version will be available which provides cell phone text messaging of any alarms that may occur.

**Applications**
- Motor bearing supervision
- Duty/standby
- Soft start
- E-Pumps-
  - CRE, TPE, MAGNA, Multi-E
  - Pump Controls- Boosterpack Hydro MPC, Control MPC, MP204
  - VFDs- CUE

**CIU**
- Constant pressure system
- Liquid temp.: +32°F to +95°F
- Head, H: max. 300 ft
- Flow, Q: max. 39 gpm
- Working press.: min. 8 psi
- Inlet press.: max. 145 psi
- Inlet temp.: +32°F to +95°F
- Ambient temp.: -4 to 113°F
- Power consumption: max. 11W
- Enclosure class: NEMA 3R

**Technical data**
- Supply voltage: 24-240 VAC/VDC
- Technical data

**EZ Boost**
- Flow-based pressure boosting system
- Liquid temp.: +32°F to +95°F
- Head, H: max. 145 ft
- Flow, Q: max. 65 gpm
- Working press.: 87 to 110 psi
- Inlet press.: min. 44 psi
- Inlet temp.: +32°F to +95°F

**Technical data**
- Supply voltage: 24-240 VAC/VDC
- Technical data

**MQ**
- Water supply systems
- Irrigation systems
- Water treatment systems

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

**Jets JPF, JDF, JPS**
- Basic Line Jet
- Servocontrol system
- Complete system
- Built-in protective functions

**Technical data**
- Flow, Q: max. 2.7 to 35 gpm
- Head, H: max. 135 to 200 ft
- Working press.: 87 to 110 psi
- Motor power: 1/2 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**
- Automatic or manual operation
- Installed as a permanent or portable pump
**Unilift CC**

Submersible drainage pump

**Applications**
- Raw and dirty water, drainage and untreated water, solids up to 2" from households, farms, and small industries.

**Features and benefits**
- Stainless steel inside for maximum strength
- Field replaceable cable
- Robust construction
- Pumps up to 2.0" solids

**Technical data**
- Flow, Q: max. 62 gpm
- Liquid temp.: 32°F to 131°F
- Head, H: max. 52 ft
- Particle size: max. 0.4" to 2.0"
- Material: Stainless steel

**Available Only in Canada**

**Unilift AP12, AP35, AP50**

Submersible effluent & domestic sewage pumps

**Applications**
- Small industries
- Horticulture
- Agriculture
- Hobby activities
- Households

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

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

**JPF, JPS Tank Package**

Packaged systems

**Applications**
- Liquid transfer in:
  - Water in houses, cottages, farms, small industries
  - Process water systems and irrigation
  - Pressure boosting in other systems e.g., commercial and residential building

**Features and benefits**
- 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
- Easy to install

**Technical data**
- Flow, Q: max. 10 gpm
- Liquid temp.: +32°F to +131°F
- Working press.: max. 87 psi
- Working pressure: 362 psi

**Hydrosolo-E**

Pressure booster system

**Applications**
- Hydro Solo-E is compact
- Stable operation even in case of air pockets in the liquid
- Stainless steel diaphragm tank

**Features and benefits**
- Eliminates current in-rushes on the AC line
- Protection from extreme voltage and temperature conditions

**Technical data**
- Flow, Q: max. 610 gpm
- Liquid temp.: +22°F to +250°F
- Head, H: max. 995 ft
- Working press.: max. 362 psi

**Hydrosolo-S**

Pressure booster system

**Applications**
- The booster set is ready for operation when the piping system and the electric supply have been connected.
  - Hydro Solo-S is compact
  - Maintenance-free
  - Easy to install

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

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.
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