A WIDE RANGE OF QUALITY PUMPS
PRODUCT OVERVIEW
A global business

With over 12,000 employees and annual production of some 10 million pump units a year, Grundfos is one of the world’s leading pump manufacturers. More than 65 companies right across all the continents of the globe help to bring pumps to every corner of the world, from supplying drinking water to Antarctic expeditions, irrigation of Dutch tulips, groundwater monitoring beneath waste heaps in Germany, to air-conditioning in Egyptian hotels.

Efficient, sustainable products

Grundfos is constantly striving to make its products more user friendly and reliable – and also energy-saving and efficient, so that both users and the environment benefit from their improvements. Grundfos pumps are equipped with ultramodern electronics, allowing them to regulate their output according to current needs. This not only ensures convenience for the user, but also saves a great deal of energy.

Research and development

In order to maintain its leading position, Grundfos constantly places a great deal of emphasis on customer orientated research and development; customers are consulted when new products are developed or when established products are improved.

Research and development make use of the latest technology within the pump industry, collaborating with universities and higher education institutions in search of new and better solutions for the design and function of the products.

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, utilised and removed as wastewater with the help of Grundfos pumps.
**Pumps for all purposes**

Grundfos offer a wide range of efficient and energy saving pump solutions to suit every purpose.

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**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, effluent and sewage pumps, for a wide range of applications in building services as well as transfer of raw sewage in municipal sewage systems.

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

**Dosing**
Dosing pumps for wastewater treatment systems, swimming pools and industry.

**Renewable-energy systems**
Renewable-energy based water supply systems suitable for remote locations not connected to the electricity supply grid.
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**Technical data**

**Flow, Q:** max. 10 m³/h  
**Head, H:** max. 12 m  
**Liquid temp.:** +15°C to +110°C  
**Op. press:** max. 10 bar

**Applications**

- Circulation of hot or cold water in
- Heating systems
- Domestic hot water systems
- Cooling and air-conditioning systems

**Features and benefits**

- Maintenance-free
- Low-noise
- Low-energy
- Wide range

**Options**

- Automatic performance adjustment
- Display of actual power consumption
- Simple installation - external plug for electrical connection
- Single-speed or 2- or 3-speed performance adjustment
- Twin-head versions

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**Technical data**

**Flow, Q:** max. 3 m³/h  
**Head, H:** max. 5 m  
**Liquid temp.:** +15°C to +110°C  
**Op. press:** max. 10 bar

**Applications**

- Circulation of hot or cold water in
- Heating systems
- Domestic hot water systems
- Cooling and air-conditioning systems

**Features and benefits**

- Maintenance-free
- Low-noise
- Low-energy
- Wide range

**Options**

- Automatic performance adjustment
- Display of actual power consumption
- Simple installation - external plug for electrical connection
- 3-speed performance adjustment

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**Technical data**

**Flow, Q:** max. 10.5 m³/h  
**Head, H:** max. 7 m  
**Liquid temp.:** +2°C to +110°C  
**Op. press:** max. 10 bar

**Applications**

- Circulation of hot or cold water in
- Domestic hot water recirculation
- Heating systems
- Domestic hot water systems
- Cooling and air-conditioning systems

**Features and benefits**

- Maintenance-free
- Low-noise
- Low-energy
- Wide range
- Corrosion-resistant stainless steel, bronze pump housing

**Options (Comfort)**

- 24-hour timer
- Adjustable thermostat
**GRUNDFOS**

### Technical data

- **Flow, Q:** max. 70 m³/h
- **Head, H:** max. 18 m
- **Liquid temp.:** –10°C to +120°C
- **Op. press:** max. 10 bar

### Applications

- Circulation of hot or cold water in
  - Heating systems
  - Domestic hot water systems
  - Cooling and air-conditioning systems

### Features and benefits

- Maintenance-free
- Built-in thermal switch
- Low-noise
- Low-energy
- Single-phase, built-in protection module
- Wide range

### Options

- Protection module
- Relay module with fault signal or operating output
- Bronze pump housing
- Twin-headed versions
- Communication via GENIbus or LON

---

**GRUNDFOS MAGNA Series 2000**

- Circulator pumps, canned-rotor type, electronically controlled

### Technical data

- **Flow, Q:** max. 90 m³/h
- **Head, H:** max. 12 m
- **Liquid temp.:** +15°C to +110°C
- **Op. press:** max. 10 bar

### Applications

- Heating systems in blocks of flats, schools, hospitals, hotels industry etc.

### Features and benefits

- Low-noise
- Low-energy
- Energy label A-rated
- Wide range
- Automatic performance adjustment
- Simple installation - no extra equipment or fittings required
- Safe selection

### Options

- Stainless steel pump housing
- Twin-headed versions
- Wireless remote control, R100
- Communication via GENIbus or LON

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**TP**

- Circulator pumps, close-coupled type

### Technical data

- **Flow, Q:** max. 4600 m³/h
- **Head, H:** max. 170 m
- **Liquid temp.:** –25°C to +120°C
- **Op. press:** max. 25 bar

### Applications

- Circulation of hot or cold water in
  - Heating systems
  - District heating plants
  - Local heating plants
  - Domestic hot water systems
  - Cooling and air-conditioning systems

### Features and benefits

- Compact design
- Wide range
- Standard motor
- Service-friendly
- Various types of shaft seals depending on liquid, temperature and pressure

### Options

- Bronze pump housing
- Twin-headed versions
TPE Series 1000
Single-stage, centrifugal pumps - electronically controlled

Technical data
Flow, Q: max. 370 m³/h
Head, H: max. 90 m
Liquid temp.: –25°C to +120°C
Op. press: max. 16 bar

Applications
The pumps are suitable for liquid transfer in
• District heating plants
• Cooling and air-conditioning systems
• Industrial plants

Features and benefits
• Low-energy
• Adaptation to existing operating conditions
• Simple installation
• Many control facilities
• Wireless remote control, R100
• Communication via GENIbus or LON

TPE Series 2000
Single-stage, centrifugal pumps - electronically controlled

Technical data
Flow, Q: max. 230 m³/h
Head, H: max. 41 m
Liquid temp.: –25°C to +120°C
Op. press: max. 16 bar

Applications
Circulation of hot or cold water in
• Heating systems
• Domestic hot water systems
• Cooling and air-conditioning systems

Features and benefits
• Low-energy
• Adaptation to existing operating conditions
• Simple installation

Options
• Wireless remote control, R100
• Communication via GENIbus, BACnet MS/TP, LON, Modbus RTU or Profinet
• Twin-head versions

NB, NBG
Single-stage standard pumps according to EN 733, ISO 2858 and ISO 5199

Technical data
Flow, Q: max. 1000 m³/h
Head, H: max. 160 m
Liquid temp.: –25°C to +120°C
Op. press: max. 25 bar

Applications
• District heating plants
• Heating systems for blocks of flats
• Air-conditioning systems
• Cooling systems
• Washdown systems
• Other industrial systems

Features and benefits
• Standard dimensions according to EN and ISO standards
• Compact design
• Flexible pump range
• Standard motor
• Adaptable to any application and performance
• EN 12756 shaft seal

Options
• Various shaft seals available
• Cast Iron, bronze or stainless steel impeller
• Cast iron or stainless steel pump housing
**NBE, NBGE**

Single-stage standard pumps according to En 733, ISO 2858 and ISO 5199 - electronically controlled.

**Technical data**
- Flow, Q: max. 550 m³/h
- Head, H: max. 100 m
- Liquid temp.: –25°C to +120°C
- Op. press: max. 25 bar

**Applications**
- District heating plants
- Heating systems for blocks of flats
- Air-conditioning systems
- Cooling systems
- Washdown systems
- Other industrial systems

**Features and benefits**
- Standard dimensions according to EN and ISO standards
- Compact design
- Flexible pump range
- Standard motor
- Adaptable to any application and performance
- EN 12756 shaft seal

**Options**
- Various shaft seals available
- Cast Iron, bronze or stainless steel impeller
- Cast iron or stainless steel pump housing

**NK, NKG**

Single-stage standard pumps according to En 733, ISO 2858 and ISO 5199

**Technical data**
- Flow, Q: max. 1170 m³/h
- Head, H: max. 160 m
- Liquid temp.: –25°C to +120°C
- Op. press: max. 25 bar

**Applications**
- District heating plants
- Water supply systems
- Air-conditioning systems
- Cooling systems
- Washdown systems
- Fire fighting systems
- Other industrial systems

**Features and benefits**
- Standard dimensions according to EN or ISO standards
- Wide range
- Robust design
- Standard motor
- Adaptable to any application /performance
- EN 12756 shaft seal

**Options**
- Various shaft seals available
- Cast Iron, bronze or stainless steel impeller
- Cast iron or stainless steel pump housing

**NKE, NKGE**

Single-stage standard pumps according to En 733, ISO 2858 and ISO 5199 - electronically controlled.

**Technical data**
- Flow, Q: max. 550 m³/h
- Head, H: max. 100 m
- Liquid temp.: –25°C to +120°C
- Op. press: max. 25 bar

**Applications**
- District heating plants
- Heating systems for blocks of flats
- Air-conditioning systems
- Cooling systems
- Washdown systems
- Other industrial systems

**Features and benefits**
- Standard dimensions according to EN and ISO standards
- Wide range
- Robust design
- Standard motor
- Adaptable to any application and performance
- EN 12756 shaft seal

**Options**
- Various shaft seals available
- Cast Iron, bronze or stainless steel impeller
- Cast iron or stainless steel pump housing
CUE

Frequency converters for three-phase pumps

Technical data

Mains voltage:
- 1 x 200-240 V
- 3 x 400-500 V
- 3 x 525-600 V
- 3 x 575-690 V

Applications

Adjustment of the pump performance to the demand. Together with sensors, the CUE offers these control modes:
- proportional differential pressure
- constant differential pressure
- constant pressure
- constant pressure with stop function
- constant level
- constant level with stop function
- constant flow rate
- constant temperature

The CUE can also be controlled by an external signal or via GENibus.

Features and benefits

- Adjustment of the pump performance to the demand, thus saving energy
- Easy installation, as the CUE is designed for GRUNDFOS pumps
- Short-circuit-protected output; no motor-protective circuit breaker required
- Fault indication via display and a relay, if fitted
- External setpoint influence via three programmable inputs

Grundfos IMpress

Pressurisation units

Technical data

Models: IMpress, IMpress Advanced
Liquid temp.: 0°C to 90°C
Cold fill press: up to 6 bar
Voltage supply: 240/1/50Hz as standard

Applications

Pressurisation of
- Heating systems
- Chilled water systems
- Commercial and industrial installations

Features and benefits

- Compact cabinetted design
- Uses reliable CH2 horizontal multistage pumps
- Microprocessor controlled
- Inclusive VFC's, Alarm and LED indication
- Single or twin pump sets available

Options

- Alternative pumps
- Network communication
- Connection for remote control display

Pressure Tanks

Diaphragm and bladder tanks

Technical data

Tank size: 8-3000 l
Liquid temp: max. +99°C (Hot)
Op. press: max. 16 bar

Applications

The diaphragm and bladder tanks are used in
- Water supply systems in housing
- System expansion for heating and chilled water
- Agriculture
- Horticulture
- Industrial systems

Features and benefits

- Optimal water supply
- Reduced number of pump starts
- Ideal for drinking water
- Wide range of sizes and applications
Grundfos Watermill
Shower Pumps

Applications
Grundfos Watermill offer a wide selection of pumps designed to boost the water pressure to a shower or bathroom fittings by 1 bar up to 4 bar. There are 4 ranges and within each range there are a number of variations. So whether you require twin or single impeller, brass or composite, universal head or positive head operation – Grundfos have the ideal pump for you.

Features and benefits
• Compact design
• Easy to install
• Integral controls
• Anti vibration feet
• Supplied with stainless steel 22mm pipework
• Fitted with high density, long life, carbon graphite seals
• Many other features, specific to each model
• Surrey & York flanges available - designed to provide an independent hot water supply, reduce air surging noise and temperature variations.

For Shower Pumps call Grundfos Watermill on 01732 869700

Technical data
Flow, Q: max. 1.4m³/h
Head, H: max. 9m
Liquid temp.: +2°C to +70°C
Op. press: max. 6 bar

Applications
The UPA 15-90 is a circulator pump designed for pressure boosting of domestic water in domestic properties.

Features and benefits
• Easy to install
• Compact booster
• Automatic operation available
• Reliable pump
• Typically adds 0.50 bar pressure

UPA 15-90 N
Home booster pump

Technical data
Flow, Q: max. 5m³/h
Head, H: max. 48 m
Liquid temp.: 0°C to +55°C
Op. press: max. 6 bar

Applications
Suitable for liquid transfer in:
• Households
• Gardens
• Hobby activities
• Agriculture
• Horticulture
• Small industries

Features and benefits
• Self-priming
• Stable operation even in case of air pockets in the liquid

Options
• Automatic start/stop when equipped with Presscontrol
• Booster sets for small-scale water supply
MQ
Multistage centrifugal self-priming pumps

Technical data
Flow, Q: max. 5m³/h
Head, H: max. 48 m
Liquid temp.: 0°C to +35°C
Op. press: max. 7.5 bar

Applications
Suitable for liquid transfer in
• Small or large family houses
• Weekend cottages
• Farms
• Greenhouses

Features and benefits
• All-in-one pressure booster unit
• Easy to install
• Easy to operate
• Self-priming
• Dry-running protection with automatic reset
• Low-noise
• Maintenance-free

CM, CME
Multistage centrifugal pumps

Technical data
Flow, Q: max. 36m³/h
Head, H: max. 130 m
Liquid temp.: -30°C to +120°C
Op. press: max. 16 bar

Applications
• Washing and cleaning
• Water treatment
• Temperature control
• Pressure boosting

Features and benefits
• Compact design
• Modular design
• Low-noise level

Options
• Customised products
• Built-in stand-alone
• Variable frequency drive

CR, CRI, CRN
Multistage centrifugal pumps

Technical data
Flow, Q: max. 180 m³/h
Head, H: max. 330 m
Liquid temp.: -40°C to +180°C
Op. press: max. 33 bar

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

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

Options
• Dry running protection and motor protection via LiqTec
**CRE, CRIE, CRNE**

Multistage centrifugal pumps - electronically controlled

**Technical data**
- Flow, Q: max. 180 m³/h
- Head, H: max. 250 m
- Liquid temp.: –40°C to +180°C
- Op. press: max. 33 bar

**Applications**
- 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

**Options**
- Wireless remote control, R100

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**CR, CRN High pressure**

Multistage centrifugal pumps

**Technical data**
- Flow, Q: max. 180 m³/h
- Head, H: max. 480 m
- Liquid temp.: –30°C to +120°C
- Op. press: max. 50 bar

**Applications**
- Washing systems
- Water treatment systems
- Industrial plants
- Boiler feeding systems

**Features and benefits**
- Reliability
- High pressures
- Service-friendly
- Space-saving
- Suitable for slightly aggressive liquids
- Single pump solution enabling high pressure

**Options**
- Dry-running protection and motor protection via LiqTec

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**CRT - Titanium**

Multistage centrifugal pumps

**Technical data**
- Flow, Q: max. 22 m³/h
- Head, H: max. 250 m
- Liquid temp.: –20°C to +120°C
- Op. press: max. 25 bar

**Applications**
- Suitable for liquid transfer in
  - Process water systems
  - Washing in cleaning systems
  - Sea water systems
  - Pumping of acids and alkalis
  - Ultra filtration systems
  - Reverse osmosis systems
  - Swimming baths

**Features and benefits**
- High corrosion resistance
- Reliability
- High efficiency
- Service-friendly
- Space-saving

**Options**
- Dry-running protection and motor protection via LiqTec
**Technical data**

Flow, Q: max. 85 m³/h  
Head, H: max. 238 m  
Liquid temp.: –20°C to +90°C  
Op. press: max. 25 bar

**Applications**

- Spark machine tools  
- Grinding machines  
- Machining centres  
- Cooling units  
- Industrial washing machines  
- Filtering systems  
- Lathes  
- Swarf conveyors

**Features and benefits**

- Flexible installation length  
- Wide range  
- Reliability  
- Service-friendly  
- Simple installation

**Options**

- Wireless remote control, R100

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**Technical data**

Flow, Q: max. 22 m³/h  
Head, H: max. 245 m  
Liquid temp.: –10°C to +90°C  
Op. press: max. 25 bar

**Applications**

- Machine tools  
- Components washing machines  
- Chiller units  
- Industrial washing machines  
- Filter and conveyor systems  
- Temperature Control  
- Boiler feed  
- General pressure boosting

**Features and benefits**

- Wide range  
- Reliability  
- Service-friendly  
- Simple installation  
- Space saving  
- High efficiency  
- Many control facilities

**Options**

- Wireless remote control, R100

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**Technical data**

Flow, Q: max. 260 m³/h  
Head, H: max. 430 m  
Liquid temp.: 0°C to +40°C  
Op. press: max. 80 bar

**Applications**

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

**Features and benefits**

- Various material versions  
- Low-noise  
- Service friendly  
- Simple installation  
- Modular design  
- Compact design  
- Leakage free
HOME BOOSTER

Packaged booster set

Technical data
Flow: 0.5 l/s
Pressure: 3.5 & 4.5 bar
Liquid temp: 20°C
Tank volume: 180 litres
Electrical supply: 240V 1ph 50Hz

Applications
The Grundfos Home Booster is a self-contained cold water booster set, designed for domestic properties where the existing mains water supply is insufficient to meet the demand requirements of pressurised hot and cold water systems. The Home Booster is suitable for most domestic properties with one or two standard bathrooms or installations with high flow outlet fittings. An additional slave tank is available for larger property installations.

Features and benefits
• Compact and cost-effective solution
• High quality stainless steel pump
• PM2 Pressure Manager on/off controller
• The unit features an integral 200 litre storage tank with Type AB air gap, in accordance with Water Byelaws regulations

MAX-E BOOST

Packaged booster set

Technical data
Flow: 1.5 l/s
Pressure: 4.0 bar
Liquid temp: 20°C
Electrical supply: 240V 1ph 50Hz

Applications
Cold water pressure boosting for large domestic properties with two or more bathrooms or installations with high flow outlet fittings.

Features and benefits
• Packaged booster set with integral controls
• Variable speed operation for constant pressure
• Factory commissioned to 3.0 bar, capacity 1.9 l/s
• WRAS approved pump and pressure vessel
• Control panel with indicator lights
• Single phase supply
• Supplied with anti vibration mountings
• Supplied with low level float switch

Hydro MPC-E, Hydro Multi-E

Complete pressure boosting systems

Technical data
Flow, Q: max. 1080 m³/h
Head, H: max. 160 m
Liquid temp.: 0°C to +70°C
Op. press: max. 16 bar

Applications
• Water supply systems
• Irrigation systems
• Water treatment systems
• Industrial plants

Features and benefits
• Easy installation and start-up
• User-friendly setting and monitoring
• Application-optimised software
• Modular solution with possibility of expansion
• Data communication via Ethernet, LON, Profibus etc
• Reliability
• High efficiency
**DME, DMS, DDI, DMI**

Single-stage, standard pumps - electronically controlled

**Technical data**
- Capacity, Q: max. 940 l/h
- Pressure P: max. 18 bar
- Liquid temp.: +50°C

**Applications**
Injection of chemicals in water and waste water treatment systems, washing systems, swimming pools and process plants.

**Features and benefits**
- Precise capacity setting directly in ml or l
- Full diaphragm control
- Stroke speed or frequency capacity control
- Operation panel with display and one-touch buttons
- Front or side fitted operation panel
- Manual/pulse control
- Control panel lock
- 4-20 mA control
- Pulse/timer based batch control
- Anti-cavitation function
- Easy calibration function
- Fieldbus communication module (optional)
- Leakage sensor

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**DMX, DMH**

Motor-driven diaphragm dosing pumps

**Technical data**
- Capacity, Q: max. 2000 l/h
- Pressure P: max. 200 bar
- Liquid temp.: max. 50°C

**Applications**
Injection of chemicals in water and waste water treatment systems, washing systems, swimming pools and process plants.

**Features and benefits**
- Sturdy design
- Stroke length capacity control
- Leakage-free

Motor control option with display and one-touch buttons and following control options:
- Pulse control
- Pulse division/multiplication
- Analog 0/4-20 mA control
- Flameproof motors with Atex 94/9/EC certificate

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**OXIPERM**

Chlorine dioxide preparation and dosing systems for disinfection

**Technical data**
- Model OCD-164:
  - Hypochloric acid/sodium chlorite method with diluted chemicals:
    - HCl: 33% by weight
    - NaClO₂: 24.5% by weight
  - Capacity: 30 - 2000 g/h
- Model OCC-164:
  - Hypochloric acid/sodium chlorite method with diluted chemicals:
    - HCl: 9% by weight
    - NaClO₂: 7.5% by weight
  - Capacity: max. 10 kg/h
- Model OCG-166:
  - Chlorine gas/sodium chlorite method:
    - NaClO₂: 24.5% by weight
  - Capacity: max. 10 kg/h

**Applications**
- Water treatment in waterworks, hotels, hospitals, retirement homes, sports facilities
- Combating Prophylaxis of Legionella
- Treatment of industrial process water, washing water and cooling circuit water
- Disinfection in bottle wash systems, rinsers, CIP systems
- Disinfection in dairies (condenser vapour, pasteurization)

**Features and benefits**
- On-site preparation of chlorine dioxide
- Ergonomic design
- Optimum process monitoring
- Innovative dosing and calibration technology
- Complete chemical reaction within a minimum of time
- Low consumption of chemicals
- Easy maintenance

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OXIPERM PRO
Chlorine dioxide preparation and dosing systems for disinfection

Technical data
Model OCD-162:
  • Capacity: max. 60 g/h
  • Concentration of chemicals:
    HCl: 9% by weight
    NaClO₂: 7.5% by weight

Applications
  • Water treatment in waterworks, hotels, hospitals, retirement homes, sports facilities, shower facilities
  • Combating Prophylaxis of Legionella
  • Treatment of industrial process water, washing water and cooling circuit water
  • Treatment of brewing water
  • Disinfection in bottle wash systems, rinsers, CIP systems
  • Disinfection in dairies (condenser vapour, pasteurization)

Features and benefits
  • Compact system to be installed in confined spaces
  • Ergonomic design. Operation and maintenance are performed from the front
  • On-site preparation of the disinfectant chlorine dioxide
  • Optional with chlorine dioxide control
  • Simple assembly and start up. The system can be connected and put into operation without interrupting the building’s water supply
  • Complete chemical reaction within a minimum of time
  • Low operating costs and low consumption of chemicals

SELCOPERM
Electro-chlorination systems for disinfection

Technical data
Capacity: max. 2000 g/h
(higher capacities on request)
Water consumption: 125-150 l per kg of prepared chlorine
Salt consumption: approx. 3 to 3.5 kg per kg of prepared chlorine
Power consumption: approx. 4.5 - 5.5 kWh per kg of prepared chlorine.

Applications
  • Water treatment in municipal waterworks and with independent water suppliers
  • Treatment of industrial wastewater
  • Treatment of industrial process water, and water in cooling towers
  • Water treatment in public swimming baths, hotel pools and therapy pools

Features and benefits
  • Turn-key systems
  • Only water, common salt and electricity are needed for the Selcoperm electrolysis method
  • Fresh disinfectant solution (hypochlorite) is always available
  • Simple handling and user-friendly design
  • Approved disinfection method complying with WHO drinking water guidelines and many local regulations
  • Low maintenance and long service life due to robust components

Novalobe
Sanitary rotary lobe pump

Technical data
Flow Q: max 0.03 l/rev to 1.29 l/rev
Head, H: max 97m
Op. temp: +95°C
(+150°C on request)
Op. press: max .1 bar

Applications
Pumping viscous media in applications in:
  • Beverage Industries
  • Breweries
  • Dairies
  • Pure water systems (WFI)
  • Food processing industries
  • Biotechnology
  • Cosmetics Industries
  • Pharmaceutical Industries
  • Chemical Industries

Features and benefits
  • Hygenic/sterile design
  • Robust construction
  • Unique rotor location and drive
  • Service friendly design
  • High flexibility
  • High volumetric efficiency
**Euro-HYGIA**

Single-stage, end-suction sanitary pumps

**Technical data**
- Flow, Q: max. 130m³/h, Head, H: max. 75 m
- Op. temp: +95°C (+150°C on request)
- Op. press: max. 16 bar

**Applications**
- Liquid transfer in breweries and dairies
- Mixing in soft drink applications
- Food processing plants
- Pure water systems (WFI)
- Process pumping in pharmaceutical industry
- CIP (Cleaning in place) systems

**Features and benefits**
- Unique hygienic design (QHD, EHEDG and 3A standards)
- CIP and SIP capable (DIN EN 12462)
- Customised solutions
- Materials: AISI 316L (DIN EN 1.4404/1.4435)
- Gentle media handling

**Options**
- Electronically speed controlled versions
- ATEX-certified pumps
- Wide range impeller designs

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**F&B-HYGIA**

Single-stage, end-suction sanitary pumps

**Technical data**
- Flow, Q: max. 130m³/h, Head, H: max. 75 m
- Op. temp: +95°C (+150°C on request)
- Op. press: max. 25 bar

**Applications**
- Liquid transfer in breweries and dairies
- Mixing in soft drink applications
- Syrup and sugar solutions
- Frying oil and blood processing
- Fruit-drink and yeast pumping
- Food processing

**Features and benefits**
- Unique hygienic design
- CIP and SIP capable (DIN EN 12462)
- Compact design

**Options**
- Electronically speed controlled versions
- Several mechanical shaft seal types
- Wide range of pipe connections
- With or without motor shroud

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**Contra**

Single and multi-stage, end suction sanitary pumps

**Technical data**
- Flow, Q: max. 55m³/h, Head, H: max. 170 m
- Op. temp: +95°C (+150°C on request)
- Op. press: max. 25 bar

**Applications**
- Liquid transfer in breweries and dairies
- Carbonising systems
- Food processing plants
- Purification systems
- Pure water systems (WFI)
- Surface treatment systems
- CIP feeding systems

**Features and benefits**
- Unique hygienic design (QHD, EHEDG and 3A standards)
- CIP and SIP capable (DIN EN 12462)
- Customised solutions
- Materials: AISI 316L (DIN EN 1.4404/1.4435)
- Gentle media handling

**Options**
- Electronically speed controlled versions
- ATEX-certified pumps
- Fully drainable versions
SIPLA
Single-stage, self priming side-channel sanitary pumps

Technical data
Flow, Q: max. 90 m³/h
Head, H: max. 50 m
Op. temp: +95°C
Op. press: max 10 bar

Applications
- CIP return pumping
- Transfer of glycerine
- Transfer of yeast
- Transfer of whey

Features and benefits
- Meets the 3A hygienic standard
- High air-content handling
- Efficient priming

Options
- Electronically speed controlled versions
- ATEX-certified pumps
- Fully cleanable versions

MAXA and MAXANA
End-suction process pumps

Technical data
Flow, Q: up to max. 800 m³/h,
Head, H: up to max. 97m
Op. temp: +95°C
Op. press: max 10 bar

Applications
- Gentle pumping of mash and wort for beer filtration (hot side)
- Liquid transfer in dairies
- Water treatment plants
- Chemical and environmental handling systems
- Liquids with high content of solid particles

Features and benefits
- Optimised hydraulics
- Gentle product handling
- Materials: AISI 316 (DIN EN 1.4404)
- Service and repair friendly

Options
- Electronically speed controlled versions
- ATEX-certified pumps
- Electro-polished versions
- Double mechanical shaft seals (tandem/ back to back)
**SPO**

Water supply pumps approved for drinking water

**Technical data**
- Flow, Q: max. 6 m³/h
- Head, H: max. 75 m
- Liquid temp.: 0°C to +40°C
- Installation depth: max 20m below water level
- Op. press: max. 10 bar

**Applications**
- Private homes and weekend cottages.
- Conventional 6” boreholes
- Shallow wells
- Rainwater collection in tanks
- Boosting of public water
- Emptying of garden ponds

**Features and benefits**
- Long service life as all components are of stainless steel
- Stable operation
- Easy to install

**SP A, SP, SP-G**

4”, 6”, 8”, 10”, 12” submersible pumps

**Technical data**
- Flow, Q: max. 470 m³/h
- Head, H: max. 670 m
- Liquid temp.: 0°C to +40°C
- Installation depth: max. 600 m

**Applications**
- Groundwater supply to waterworks
- Irrigation in horticulture and agriculture
- Groundwater lowering
- Pressure boosting
- Industrial applications

**Features and benefits**
- High efficiency
- Long service life as all components are stainless steel.
- Motor protection via CUE or MP 204

**Options**
- Data can be monitored and controlled via CUE, MP 204/R100

**MS motors**

Stainless steel 4” and 6” submersible motors.

**Motor sizes**
- 4” motor: 0.37 to 7.5 kW
- 6” motor: 5.5 to 30 kW

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

**Features and benefits**
- Overprotection by means of a built-in Tempcon temperature transmitter
- Standardised NEMA head and shaft end
- Completely encapsulated in stainless steel
- Liquid cooled and has liquid lubricated bearings

**Options**
- Material variants available
MMS Motors

Stainless steel 6”, 8”, 10”, 12” rewindable submersible motors

Motor sizes
6” motor: 3.7 to 37 kW
8” motor: 22 to 110 kW
10” motor: 75 to 190kW
12” motor: 147 to 250kW

Applications
The Grundfos MMS submersible motors can be fitted on all Grundfos SP, SP-G pumps.

Features and benefits
• Wide range of rewindable motors
• Easily rewinded
• Protection against upthrust
• High efficiency
• 6” and 8” have standardised NEMA head and shaft end
• Mechanical shaft seal ceramic/carbon or SiC/SiC
• PVC or PE/PA windings

Options
• Material variants available
• Overtemperature protection via Pt100

SQ, SQE

3” Submersible pumps

Technical data
Flow, Q: max. 9 m³/h
Head, H: max. 210 m
Liquid temp.: 0°C to +40°C
Installation depth: max. 150 m

Applications
• Domestic water supply systems
• Groundwater supply to waterworks
• Irrigation in horticulture and agriculture
• Groundwater lowering
• Industrial applications

Features and benefits
• Integrated dry-running protection
• Soft start
• Over and undervoltage protection
• High efficiency

Options
• SQE can be protected, monitored and controlled by CU 300 and CU 301 via R100

SQE-NE, SP-NE

Environmental pumps

Technical data
Flow, Q: max. 22 m³/h
Head, H: max. 215 m
Liquid temp.: 0°C to +40°C
Op. press: max. 600 m

Applications
The pumps are suitable for
• Pumping up contaminated groundwater
• Sampling
• Remedial pumping

Features and benefits
SQE-NE
• Same features and benefits as SQE

SP-NE
• Same features as SP
MP 1

Environmental pumps

Technical data
Flow, Q: max. 2.4 m³/h
Head, H: max. 95 m
Liquid temp.: 0°C to +35°C

Applications
The pumps are suitable for
• Sampling

Features and benefits
• Compact design
• Fit into 50mm boreholes

SQFlex

Renewable-energy based water supply systems

Technical data
Flow, Q: max. 90 m³/day
Head, H: max. 120 m
Liquid temp.: 0°C to +40°C
Voltage supply: 30-300 VDC or 1x90-240V, 50/60 Hz
Installation depth: max. 150 m

Applications
The SQFlex systems are suitable for remote locations, such as:
• Villages, schools, hospitals, small-family houses
• Farms and irrigation of greenhouses
• Game parks and game farms
• Conservation areas

Features and benefits
• Energy supply: Solar modules, wind turbine, generator or batteries
• Simple installation
• Reliable water supply
• Virtually no maintenance
• Expansion possibilities
• Cost-efficient pumping
• Dry-running protection

CR Monitor

Monitoring of pump efficiency, cavitation and performance

Technical data
• Pump types supported: CR, CRI, CRN and CRN MAGdrive
• Motor range: 1.1 to 75 kW, EFF1
• Available for pumps with standard MG/Siemens motors, MG/Siemens motors supplied from a Grundfos CUE frequency converter and MGE motors with integrated frequency converter
• Based on well known components from Control/Hydro MPC and the LiqTec sensor
• Enclosure class: IP54
• Voltage supply: 3 x 400 VAC

Applications
• Pumps in demanding applications where zero downtime is required
• Pumps exposed to extreme wear or clogging due to materials in the pumped liquid
• Pumps in processes where continuous monitoring and control are essential

Features and benefits
• Detects if the pump efficiency is reduced
• Detects if the pump is about to cavitate
• Detects if the pump is running outside its normal operating range
• Enables planning of pump maintenance in order to prevent unplanned downtime

Options
• 24/7 monitoring of operation and protection of equipment
• Bus communication to SCADA system or web-link
• Data collection, monitoring and setting through local PC or via internet
GRUNDFOS

LiqTec
Control and monitoring unit

Applications
• Monitoring and protection of pumps and processes

Features and benefits
• Protection against dry running
• Protection against liquid temperatures exceeding 130°C ± 5°C
• Protection against too high motor temperatures
• Manual or automatic restarting possible from a remote PC
• Simple installation - plug and play technology
• Robust sensor

MP 204, CU 300, CU 301
Control and monitoring units

Applications
• Monitoring and protection of pump installations

Features and benefits
• Protection against dry running and too high motor temperature
• Constant monitoring of pump energy consumption
• Reading out of operating data via R100

Options
• Connection to large control systems via BUS-communication

Unilift CC, KP, AP12, AP35/50, AP35B/50B
Drainage pumps

Technical data
Flow, Q: max. 35 m³/day
Head, H: max. 18 m
Liquid temp.: 0°C to +55°C
Particle size: max ø50mm

Applications
The pumps are suitable for:
• Drainage of flooded cellars
• Pumping of household wastewater
• Groundwater lowering
• Emptying of swimming-pools and excavations
• Drainage of drain wells
• Emptying of tanks and reservoirs

Features and benefits
• Simple installation
• Service and maintenance free

Options
AP35B and APS0B are suitable for installation on auto-coupling
DP, EF
Drainage, effluent and sewage pumps

Technical data
Flow, Q: max. 19.5 l/s (70m³/h),
Head, H: max. 25 m
Liquid temp.: 0°C to +40°C
Discharge diameter: Rp 2 to DN 65

Applications
• Drainage
• Effluent
• Wastewater
• Process water
• Domestic sewage

Features and benefits
• Cable plug connection
• Flexible pipe and cable plug connections
• Unique clamp connection
• Single-channel and vortex impellers
• Solids passage up to 65mm
• Unique cartridge shaft seal
• Modular design
• Minimum downtime

Options
• Control and protection systems
• Motor operation control

SL1 and SLV
Submersible pumps

Technical data
Flow, Q: max. 19.5 l/s (70m³/h),
Head, H: max. 25 m
Liquid temp.: 0°C to +40°C
Discharge diameter: Rp 2 to DN 65

Applications
• Drainage
• Effluent
• Wastewater
• Process water
• Domestic sewage

Features and benefits
• Cable plug connection
• Unique clamp connection
• Single-channel and vortex impellers
• Solids passage up to 65mm
• Unique cartridge shaft seal
• Modular design
• Minimum downtime

Options
• Control and protection systems
• Motor operation control

SEG
Grinder pumps

Technical data
Flow, Q: max. 5 l/s
Head, H: max. 47 m
Liquid temp.: 0°C to +40°C
Discharge diameter: Rp 2 to DN 65

Applications
The pumps are suitable for the pumping of wastewater and sewage through pipes of 40mm in diameter and upwards

Features and benefits
• Service-friendly
• Installation on foot or auto-coupling
• Continuous operation with fully submerged pump
• Built-in motor protection
• SmartTrim
• Improved grinder system
• Totally sealed cable plug

Options
• Wide range of accessories
• Monitoring and control of one or several pumps
**SE**

**Heavy duty submersible pumps**

**Technical data**
- Flow, Q: max. 88 l/s (315 m³/h)
- Head, H: max. 45 m
- Liquid temp.: 0°C to +40°C
- Discharge dia: DN 65 to DN 150

**Applications**
- Wastewater
- Process water
- Unscreen raw sewage
- Sludge-containing sewage

**Features and benefits**
- Cable plug connection
- Unique clamp assembly system
- Single-channel and vortex impellers
- Solids passage up to 100 mm
- Low risk of clogging
- Low operating costs
- Liquidless motor cooling
- Unique cartridge shaft seal

**Options**
- Control and protection systems
- Motor operation control

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**SEN**

**Submersible stainless steel pumps**

**Technical data**
- Flow, Q: max. 215 l/s (774 m³/h)
- Head, H: max. 50 m
- Liquid temp.: 0°C to +40°C
- Discharge dia: DN 80 to DN 250

**Applications**
- Transfer of wastewater and raw water
- Pumping of highly aggressive liquids
- Pulp and paper industries

**Features and benefits**
- SmartTrim
- Operation with/without cooling jacket
- Submerged or dry installation
- Different types of impellers
- Built-in motor protection
- Various executions in stainless steel
- Liquids with a pH value between 2 and 14

**Options**
- Control and protection systems
- External cooling water
- External seal flush system

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**S Pumps**

**Supervortex pumps, single or multichannel impeller pumps**

**Technical data**
- Flow, Q: max. 2500 l/s
- Head, H: max. 116 m
- Liquid temp.: 0°C to +40°C
- Discharge dia: DN 80 to DN 500
- Particle size: max ø145 mm

**Applications**
- Transfer of wastewater
- Transfer of raw water
- Pumping of sludge-containing water
- Pumping of industrial effluent

**Features and benefits**
- Wide range
- SmartTrim
- Operation with/without cooling jacket
- Submerged or dry installation
- Different types of impellers
- Built-in motor protection

**Options**
- Control and protection systems
- External cooling water
- External seal flush system
**DW**

Contractor pumps

**Technical data**
- Flow, Q: max. 300m³/h
- Head, H: max. 100 m
- Liquid temp.: 0°C to +40°C

**Applications**
- Suitable for liquid transfer in
  - Tunnels
  - Mines
  - Quarries
  - Gravel pits
  - Fish ponds
  - Building sites

**Features and benefits**
- Extremely hard-wearing due to specially selected materials
- Simple installation
- Service-friendly

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**Conlift**

Pump for removal of condensate water

**Technical data**
- Flow: max. 630 l/h
- Head, H: max. 5.3 m
- Liquid temp.: max. 35°C
- pH: min 2.7
- Container volume: 2.6 l
- Effective volume: 0.85 l

**Applications**
- The Conlift is designed for safe removal of condensate from:
  - boilers up to 200 kW
  - air-conditioning systems
  - cooling and refrigeration systems
  - air dehumidifiers
  - evaporators

**Features and benefits**
- Built-in on/off control via 2 pressure switch ensures high security
- Built-in alarm and potential free contact to switch off condensate source
- Angular mounting brackets to counteract bouyancy
- LGA approval
- Modern design
- Easy to clean

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**Conlift L**

Pump for removal of condensate water

**Technical data**
- Flow: max. 342 l/h
- Head, H: max. 4.5 m
- Liquid temp.: max. 35°C
- pH: min 2.5
- Container volume: 2.6 l
- Effective volume: 0.5 l

**Applications**
- The Conlift is designed for safe removal of condensate from:
  - boilers up to 100 kW
  - air-conditioning systems
  - cooling and refrigeration systems
  - air dehumidifiers
  - evaporators

**Features and benefits**
- Built-in on/off control via microswitch
- Built-in safety switch/potential free contact to switch off condensate source
- VDE and GOST approvals
- Pipe adapter for inlet and discharge included
- Easy to clean
- Maintenance-free motor with thermal protection
- All installation material and discharge hose
- Reliable and silent
**Applications**
- Extra bathrooms
- Basement installations
- Low-cost bathrooms in holiday cottages
- Added facilities in hotels and guest houses for the elderly or the disabled
- Bathrooms for the elderly or the disabled
- Renovation of offices and other commercial buildings

**Features and benefits**
- Unique modular design with smooth line and rounded edges
- Reliable operation
- Professional cutter
- Horizontal or vertical discharge pipe connection
- Flexible discharge pipe adapters for outer pipe diameters of ø23, ø25, ø28, and ø32mm
- Thermal overload switch
- Clean hands serviceability
- Drain down hose connection
- Optional warning alarm

**CWC-3**
- Especially designed for wall-hung toilets
- Compact and slim for easy integration into the wall

**C-3**
- Especially designed for high temp liquid wastewater from washing machines or dishwashers
- Compact and slim for installation under a washbasin or in a closet

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**Applications**
- Collection of drainage and surface water
- Collection and pumping of wastewater from basement and laundry rooms below sewer level
- Collection and pumping of wastewater from washbasins, washing machines and floor drains to sewer level
- Collection and pumping of rainwater

**Features and benefits**
- Fitted with pumps from the Unilift KP and AP range
- Functional design and easy to clean
- Overflow protection device
- Active carbon filter to eliminate odours
- Compact and slim for easy installation under a washbasin or in a closet

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**Applications**
- Small or large family houses
- Weekend cottages and summer houses
- Restaurants & small hotels
- Sewage systems in the open country
- Percolation systems

**Features and benefits**
- Ready for installation
- Flexible pipe and cable plug connections
- Unique clamp assembly system
- Single-channel and vortex impellers
- Solids passage up to 100mm
- Low risk of clogging
- Minimum downtime
- Low operating costs
- Liquidless motor cooling
- Unique cartridge shaft seal
- Modular design
**PUST**

Complete pumping stations

**Technical data**
- Ø400, Ø 600, Ø 800 and Ø 1000
- Depth from 0.5 - 3.0 m
- Outlet pipe size DN 40, DN 50, and DN 65
- Liquid temp: max. 40°C
- Made of PEHD, pipes and valves made of PE or stainless steel

**Applications**
- Drainage
- Effluent/rainwater/surface water
- Waste water

**Features and benefits**
- Modular flexibility
- Corrosion-free materials
- Increased sump volume prevents push up
- Easy installation
- Studry design
- Inlet holes drilled on site
- Design of sump limits sludge and odour problems

**Options**
- Pumps
- Controls and communication
- Valve chambers
- Launcher for cleaning pig
- Flowmeter
- Inlet seals
- Drills for inlet seals
- Frost protection
- Ventilation package
- Covers for heavy traffic load

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**AMD, AMG, AFG**

Mixers and flowmakers

**Technical data**
- Liquid temp.: +5°C to +40°C
- pH value: 4 to 10
- Axial thrust: 160 to 3931 N
- Max. dynamic viscosity: 500 mPa s
- Max. density: 1060 kg/m³
- Max. installation depth: 20 m

**Applications**
- The mixers and flowmakers are designed for mixing, i.e. homogenisation and suspension, of liquids in
  - Municipal wastewater treatment systems
  - Industrial processes
  - Sludge treatment systems
  - Agriculture
  - Biogas plant

The mixers and flowmakers are equipped with propellers made of stainless steel or composite material with a diameter between 180mm and 2300mm and a rotation speed between 22 min⁻¹ and 1400 min⁻¹

**Features and benefits**
- Angular contact bearings (roller bearings)
- Easy to maintain and service without use of special tools
- Electronic leak sensor in gearbox/shaft seal housing
- Shaft seal protected against abrasive materials
- Self-cleaning stainless steel or polyamide propellers

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**SRP Pumps**

Submersible re-circulation pumps

**Technical data**
- Flow, Q: max. 1430 l/s
  (5130m³/h)
- Head, H: max. 2.1 m
- Liquid temp.: 5°C to +40°C
- Column pipe diameter: DN300, DN500, & DN800

**Applications**
- The pumps are suitable for
  - Transfer of raw water
  - Re-circulation of sludge within sewage treatment plants
  - Storm water pumping
  - Irrigation
  - Industrial applications

**Features and benefits**
- High efficiency stainless steel propeller
- Totally submerged installations
- Built-in motor protection
- Flexibility of installation

**Options**
- Control and protection systems
Packaged Fire Systems

Diesel and electric powered pump sets and ancillary equipment

Technical data
Flow, Q: max. 13,250 l/min
Head, H: max. 10 bar
Op. pressure: max. 16 bar

Applications
Packaged fire sets for domestic, commercial and industrial applications covering all Ordinary/High Hazard class (LPC) duty requirements. FM approved sets also available.

Features and benefits
• Diesel driven pump sets
• Electric auxilliary pump sets
• Hydrant/Hose Reel sets
• Integral/remote alarm panels
• Jockey pumps
• Compact design for easy installation
• Can be supplied to NFPA 20 standard

Control Panels

Technical data
• Built to current European manufacturing standards
• IP54 minimum enclosures
• CAD drawings available
• RAL 7032/5 standard panel finish

Applications
Suitable for pump and system control in
• Building Management Systems
• Cold water boosting
• Fire Protection
• Waste Water management

Features and benefits
• All internal equipment to IP2X as standard
• Door interlocked isolators and low voltage control circuits as standard
• Traffolyte/Gravoply engraved labels
• All cables identified by colour coded idents
• Factory acceptance testing on all products
• Electrical schematic and GA drawings supplied with units
• Electrical safety test certificates supplied
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BE THINK INNOVATE