A global business

With over 10,000 employees and annual production of some 8 million pump units a year, Grundfos is one of the world’s leading pump manufacturers. More than 50 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-oriented 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

No matter for which purpose an efficient and energy-saving pump solution is required, Grundfos offers a high-quality solution.

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 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.

Groundwater supply
Submersible and dry installed pumps for groundwater supply, irrigation and groundwater lowering.
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 analyses.

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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**Product and application overview**

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GRUNDFOS ALPHA+
UPS, UP Series 100
Circulator pumps, canned-rotor type

Technical data
Flow, Q: max. 10 m³/h
Head, H: max. 12 m
Liquid temp.: –25°C to +110°C
Operat. pres.: 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
• Simple installation - external plug for electrical connection
• Single-speed or 2- or 3-speed performance adjustment
• Twin-head versions

GRUNDFOS COMFORT
UP-N, UP(S)-B Series 100
Circulator pumps, canned-rotor type

Technical data
Flow, Q: max. 10.5 m³/h
Head, H: max. 7 m
Liquid temp.: –25°C to +110°C
Operat. pres.: max. 10 bar

Applications
Circulation of hot or cold water in
• Domestic hot water recirculation
• Heating systems
• Domestic hot water systems
Features and benefits
• Maintenance-free
• Low-noise
• Corrosion-resistant stainless steel, brass pump housing

Options
• 24-hour timer
• Adjustable thermostat

UPS Series 200
Circulator pumps, canned-rotor type

Technical data
Flow, Q: max. 70 m³/h
Head, H: max. 18 m
Liquid temp.: –10°C to +120°C
Operat. pres.: 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 with built-in protection module
• Wide range

Options
• Protection module
• Relay module with fault signal or operating output
• Bronze pump housing
• Twin-head versions
• Communication via GENibus or LON
GRUNDFOS MAGNA, UPE 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
Operat. pres.: max. 10 bar

Applications
Circulation of hot water in
- Heating systems in blocks of flats, schools, hospitals, hotels, industry etc.

Features and benefits
- Low-noise
- Low-energy
- Wide range
- Automatic performance adjustment
- Simple installation - no extra equipment or fittings required
- Safe selection

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

TP
Circulator pumps, close-coupled type

Technical data
Flow, Q: max. 4600 m³/h
Head, H: max. 170 m
Liquid temp.: –25°C to +150°C
Operat. pres.: 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-head versions

LM, LP, CLM
Single-stage centrifugal pumps

Technical data
Flow, Q: max. 600 m³/h
Head, H: max. 60 m
Liquid temp.: –40°C to +140°C
Operat. pres.: max. 20 bar

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

Features and benefits
- Adaptable to any application and performance
- EN 12 756 shaft seal
- Wide range
- Standard motor
- Service-friendly

Options
- Various types of shaft seals depending on liquid, temperature and pressure
- Twin-head versions
- Bronze impeller (CLM only)
TPE Series 2000

Single-stage, centrifugal pumps - electronically controlled

Technical data
Flow, Q: max. 130 m³/h
Head, H: max. 28 m
Liquid temp.: –25°C to +140°C
Operat. pres.: 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
• Parallel operation
• Wireless remote control, R100
• Communication via GENIbus or LON
• Twin-head versions


LME, LPE, CLME, TPE

Single-stage, centrifugal pumps - electronically controlled

Technical data
Flow, Q: max. 160 m³/h
Head, H: max. 60 m
Liquid temp.: –25°C to +140°C
Operat. pres.: 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

R100

Wireless remote control

Applications
• All pumps designed for wireless communication

Features and benefits
• Simple and quick installation of the pump
• Reading out of various operating and fault signals
• Printing out of status information

TPE Series 2000

Single-stage, centrifugal pumps - electronically controlled

Technical data
Flow, Q: max. 130 m³/h
Head, H: max. 28 m
Liquid temp.: –25°C to +140°C
Operat. pres.: 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
• Parallel operation
• Wireless remote control, R100
• Communication via GENIbus or LON
• Twin-head versions


LME, LPE, CLME, TPE

Single-stage, centrifugal pumps - electronically controlled

Technical data
Flow, Q: max. 160 m³/h
Head, H: max. 60 m
Liquid temp.: –25°C to +140°C
Operat. pres.: 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

R100

Wireless remote control

Applications
• All pumps designed for wireless communication

Features and benefits
• Simple and quick installation of the pump
• Reading out of various operating and fault signals
• Printing out of status information
**PMU 2000, PCU 2000**

Pump controllers

**Applications**
- Parallel connection of up to eight pumps
- Central reading out of various status information

**PCU 2000**
- Fault indication for each pump
- External setpoint influence
- Start/stop of system

**Features and benefits**
- Communication via BUS
- Simple and quick installation

**Delta Control 2000**

Pump controllers

**Technical data**
- No. of pumps: max. 4
- Power output: 75 kW
- Encl. class: IP 54

**Applications**
Delta Control 2000 are used for parallel connection of pumps in
- Heating systems
- Cooling and air-conditioning systems

**Features and benefits**
- Complete control panel

**Options**
- External communication

**NM, NP, DNM, DNP**

Single-stage standard pumps

**Technical data**
- Flow, Q: max. 160 m³/h
- Head, H: max. 62 m
- Liquid temp.: –25°C to +140°C
- Operat. pres.: max. 16 bar

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

**Features and benefits**
- Standard dimensions according to ISO or DIN standards
- Compact design
- Flexible pump range
- Standard motor
- Adaptable to any application and performance
- EN 12 756 shaft seal

**Options**
- Various types of shaft seal depending on liquid, temperature and pressure
**Technical data**

**Flow, Q:** max. 460 m³/h  
**Head, H:** max. 96 m  
**Liquid temp.:** –25°C to +140°C  
**Operat. pres.:** max. 16 bar

**Applications**
The pumps are suitable for liquid transfer in:
- 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 12 756 shaft seal

**Optional**
- Various types of shaft seal depending on liquid, temperature and pressure
- Cast iron or bronze impeller

---

**Technical data**

**Flow, Q:** max. 2000 m³/h  
**Head, H:** max. 150 m  
**Liquid temp.:** –25°C to +140°C  
**Operat. pres.:** max. 16 bar

**Applications**
The pumps are suitable for liquid transfer in:
- District heating plants
- Water supply systems
- Air-conditioning systems
- Cooling plants
- Industrial plants
- Fire fighting systems
- Environment engineering

**Features and benefits**
- Standard dimensions according to EN or ISO standards
- Wide range
- Robust design
- Heavy-duty
- Flexible motor range

---

**Technical data**

**Flow, Q:** max. 189 m³/h  
**Head, H:** max. 58 m  
**Liquid temp.:** –25°C to +140°C  
**Operat. pres.:** max. 16 bar

**Applications**
The pumps are suitable for liquid transfer in:
- Washing systems
- Water supply systems
- District heating plants
- Cooling and air-conditioning systems
- Industrial plants

**Features and benefits**
- Standard dimensions according to EN standards
- Compact design
- Adaptable to any application and performance
- EN 12 756 shaft seal
- Many control facilities

**Optional**
- Various types of shaft seal depending on liquid, temperature and pressure
- Cast iron or bronze impeller
- Wireless remote control, R100
### Technical data

| Flow, Q: | max. 190 m³/h |
| Head, H: | max. 59 m |
| Liquid temp.: | –25°C to +140°C |
| Operat. pres.: | max. 16 bar |

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

### Applications

- Washing systems
- Water supply systems
- District heating plants
- Cooling and air-conditioning systems
- Industrial plants

### Features and benefits

- Standard dimensions according to DIN standards
- Wide range
- Robust design
- Heavy-duty
- Many control facilities

### Options

- Wireless remote control, R100

---

### Technical data

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

### Applications

- Boiler feeding systems
- Pumping of cooling lubricants
- Water treatment systems

### Features and benefits

- Wide range
- Reliability
- Wireless remote control, R100
**DME, DMS**

Compact diaphragm dosing pumps

**Technical data**
- Capacity, Q: max. 940 l/h
- Pressure, p: max. 18 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**
- 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 (option)
- Leakage sensor

---

**DMM**

Motor-driven diaphragm dosing pumps

**Technical data**
- Capacity, Q: max. 990 l/h
- Pressure, p: max. 10 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
  - Puls division/multiplication
  - Analog 0/4-20 mA control

---

**GP**

Swimming-pool pumps

**Technical data**
- Flow, Q: max. 26 m³/h
- Head, H: max. 17.5 m
- Liquid temp.: 0°C to +40°C
- Operat. pres.: max. 3 bar

**Applications**
The pumps are suitable for
- Circulation of swimming-pool water in small and medium sized swimming-pools

**Features and benefits**
- Built-in motor protection
- Stainless steel shaft
- Low sound level
- Self-priming down to 2 m
- Corrosion resistant materials
- No need for special service tools
- Quick and easy to repair

**Options**
- Integrated heating unit
- Level sensor
- Control panels
CHI, CHIU
Multistage centrifugal pumps

Technical data
Flow, Q: max. 14 m³/h
Head, H: max. 57 m
Liquid temp.: –15°C to +120°C
Operat. pres.: max. 10 bar

Applications
The pumps are suitable for liquid transfer in:
- Water treatment systems
- Industrial washing and dishwashing machines
- Pressure boosting of process water
- Heating and cooling in industrial processes
- Air-conditioning systems
- Airwashing, moisturization, humidification (softened water)
- Water supply and pressure boosting (potable water, also slightly chlorinated)

Features and benefits
- Compact design
- Wide range
- Suitable for slightly aggressive liquids
- Low noise
- Leakage-free (CHIU only)

CHIE
Multistage centrifugal pumps - electronically controlled

Technical data
Flow, Q: max. 14 m³/h
Head, H: max. 58 m
Liquid temp.: –15°C to +110°C
Operat. pres.: max. 10 bar

Applications
The pumps are suitable for liquid transfer in:
- Cooling systems
- Industrial washing systems
- Aquafarms
- Fertilizer systems
- Dosing systems
- Industrial plants

Features and benefits
- Compact design
- Wide range
- Suitable for slightly aggressive liquids
- Many control facilities

Options
- Wireless remote control, R100

CR, CRI, CRN
Multistage centrifugal pumps

Technical data
Flow, Q: max. 120 m³/h
Head, H: max. 330 m
Liquid temp.: –40°C to +180°C
Operat. pres.: max. 33 bar

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
- Reliability
- High efficiency
- Service-friendly
- Space-saving
- Suitable for slightly aggressive liquids

Options
- Dry-running protection and motor protection via Liqtec
CR, CRN high pressure
Multistage centrifugal pumps

Technical data
Flow, Q: max. 120 m³/h
Head, H: max. 480 m
Liquid temp.: –30°C to +120°C
Operat. pres.: max. 50 bar

Applications
The pumps are suitable for liquid transfer in:
- 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

CRT
Multistage centrifugal pumps

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

Applications
The pumps are 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

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
**CV, CPV, CPH**

Multistage centrifugal pumps

**Technical data**
- Flow, Q: max. 560 m³/h
- Head, H: max. 200 m
- Liquid temp.: –15°C to +120°C
- Operat. pres.: max. 20 bar

**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**
- Low-speed (4-pole motors)
- Heavy-duty
- Low-noise
- Vertical and horizontal installation

**Options**
- Wireless remote control, R100

---

**CRE, CRIE, CRNE**

Multistage centrifugal pumps - electronically controlled

**Technical data**
- Flow, Q: max. 120 m³/h
- Head, H: max. 250 m
- Liquid temp.: –40°C to +180°C
- Operat. pres.: max. 33 bar

**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

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

---

**Euro-HYGIA®**

Single-stage, end-suction sanitary pumps

**Technical data**
- Flow, Q: max. 130 m³/h
- Head, H: max. 75 m
- Operat. temp.: +95°C
- Operat. pres.: 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.
Contra

Single- and multi-stage, end-suction sanitary pumps

Technical data
Flow, Q: max. 55 m³/h
Head, H: max. 170 m
Operat. temp.: +95°C (+150°C on request)
Operat. pres.: 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)
• High efficiency
• Materials: AISI 316L (DIN EN 1.4404/1.4435).

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
Operat. temp.: +95°C (+140°C on request)
Operat. pres.: 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. 97 m
Operat. temp.: +95°C (+150°C on request)
Operat. pres.: 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).
### Hydro 2000, Hydro 1000, Hydro Solo, Hydro Multi-E
Complete pressure boosting systems

#### Technical data
- Flow, \( Q \): max. 720 m\(^3\)/h
- Head, \( H \): max. 160 m
- Liquid temp.: 0°C to +70°C
- Operat. pres.: max. 16 bar

#### Applications
- Water supply systems
- Irrigation systems
- Water treatment systems
- Fire fighting systems
- Industrial plants

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

#### Options
- External communication, Control 2000

### Control 2000
Pump controllers

#### Applications
Control 2000 is suitable for parallel connection of pumps in
- Water supply systems
- Irrigation systems
- Water treatment systems
- Fire fighting systems
- Industrial plants

#### Features and benefits
- Complete control panel

#### Options
- External communication

### BMP
Piston pumps designed for transport of fluids under high pressure.

#### Technical data
- Flow, \( Q \): max. 10.2 m\(^3\)/h
- Head, \( H \): max. 1630 m
- Liquid temp.: 3°C to +50°C
- Operat. pres.: max. 160 bar

#### Applications
BMP pumps are suitable for a variety of applications ranging from pumping of potable water to pumping of chemicals.
- Cleaning/washing
- Injecting
- Misting
- Processing
- Desalination of brackish water and seawater

#### Features and benefits
- High efficiency
- Small and light pump
- Generates insignificant pulsations in the discharge line
- No preventive maintenance required
- Long service life
- Few wear parts
- Wide speed control range
- Extreme recirculation capability without overheating (up to 90%)
- Lubricated by the pumped liquid
**BM, BMB**

4", 6", 8" booster modules

<table>
<thead>
<tr>
<th>Technical data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow, Q: max. 260 m³/h</td>
</tr>
<tr>
<td>Head, H: max. 430 m</td>
</tr>
<tr>
<td>Liquid temp.: 0°C to +40°C</td>
</tr>
<tr>
<td>Operat. pres.: max. 80 bar</td>
</tr>
</tbody>
</table>

**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
- Simple installation
- Modular design
- Compact design
- Leakage-free

---

**BME, BMET**

High-pressure booster systems

<table>
<thead>
<tr>
<th>Technical data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow, Q: max. 95 m³/h</td>
</tr>
<tr>
<td>Head, H: max. 700 m</td>
</tr>
<tr>
<td>Liquid temp.: 0°C to +40°C</td>
</tr>
<tr>
<td>Operat. pres.: max. 70 bar</td>
</tr>
</tbody>
</table>

**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

---

**BMEX**

Grundfos booster system BMEX is designed for energy recovery in Sea Water Reverse Osmosis (SWRO)

<table>
<thead>
<tr>
<th>Technical data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permeate per day: 500 to 2500 m³</td>
</tr>
<tr>
<td>Head, H: max. 810 m</td>
</tr>
<tr>
<td>Ambient temp.: +40°C</td>
</tr>
<tr>
<td>Operat. pres.: max. 80 bar</td>
</tr>
</tbody>
</table>

**Applications**
- Desalination of brakish water and seawater

**Features and benefits**
- Energy recovery up to 60%, compared to conventional systems, resulting in short payback period
- Corrosion- and wear-resistant internal ceramic components
- Couplings for easy installation
- High-grade stainless steel used on frame and manifold
- Large flows and high heads
- Motor and bearings are standard components
- Maintenance-free shaft seal
- V-belt drive with high efficiency
- Easy to dismantle for service
**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**
The pumps are suitable for:
- 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.

**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 +60°C
- Installation depth: max. 600 m

**Applications**
The pumps are suitable for:
- 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 CU 3

**Options**
- Data can be monitored and controlled via CU 3/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
- Standardized 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 190 kW
- 12" motor: 147 to 250 kW

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

**Features and benefits**
- Wide range of rewindable motors
- Easily rewinded
- Protection against upthrust
- High efficiency
- 6" and 8" have standardized 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

---

**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
- Instal. depth: max. 600 m

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

**Features and benefits**
- Same features and benefits as SQE SP-NE
- Same features and benefits 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 50 mm 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 1x90-240 V, 50/60 Hz
Instal. depth: max. 150 m

Applications
The SQFlex systems are suitable for remote locations, such as:
• Villages, schools, hospitals, single-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

CU 3, 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
• Connection of sensors enabling control based on sensor signals

JP
Self-priming jet pumps

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

Applications
The pumps are 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
CH, CHN
Multistage centrifugal pumps

Technical data
Flow, Q: max. 14 m³/h
Head, H: max. 55 m
Liquid temp.: 0°C to +90°C
Operat. pres.: max. 10 bar

Applications
The pumps are suitable for liquid transfer in:
• Pressure boosting systems
• Domestic water supply systems
• Cooling systems
• Air-conditioning systems
• Horticultural irrigation systems
• Small industrial water supply systems

Features and benefits
• Compact design
• Robust design
• Full stainless steel design (CHN only)
• Low-noise

Options
• Booster sets for domestic water supply
• Automatic start/stop when equipped with Presscontrol

MQ
Multistage centrifugal self-priming pumps

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

Applications
The pumps are suitable for liquid transfer in:
• Single- or two-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

Options
• Booster sets for domestic water supply
• Automatic start/stop when equipped with Presscontrol

RMQ
Rainwater unit for monitoring and control of rainwater systems

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

Applications
The rainwater unit is suitable for the transfer of water from water collection and utilisation systems in:
• Single- or two-family houses
• Weekend cottages
• Farms
• Gardens and greenhouses

Features and benefits
• Automatic changeover between rainwater tank and integrated main water tank
• Manual changeover between rainwater tank and integrated main water tank
• Acoustic/visual alarm in case of overflow in integrated main water tank

Options
• Control of additional booster pump
• Backflow sensor in case of overflow in sewers
CHV
Multistage centrifugal pumps

Technical data
Flow, Q: max. 8 m³/h
Head, H: max. 93 m
Liquid temp.: 0°C to +90°C
Operat. pres.: max. 12 bar

Applications
The pumps are suitable for liquid transfer in
• Pressure boosting systems
• Domestic water supply systems
• Cooling systems
• Air-conditioning systems
• Horticultural irrigation systems
• Small industrial water supply systems

Features and benefits
• Compact design
• Robust design
• Low-noise
• Space-saving

CHV booster
Vertical pressure booster systems

Technical data
Flow, Q: max. 16 m³/h
Head, H: max. 93 m
Liquid temp.: 0°C to +40°C
Operat. pres.: max. 10 bar

Applications
The booster systems are suitable for pressure boosting in
• Small waterworks
• Small blocks of flats
• Hotels
• Stores
• Light industry
• Hospitals
• Schools
• Large houses

Features and benefits
• One- or two-pump system
• User-friendly controllers
• Reliability
• High efficiency
• Service-friendly

Options
• Overpressure protection
• Dry-running protection

Pressure tanks
Diaphragm and bladder tanks

Technical data
Tank size: 8-3000 l
Liquid temp.: max. +90°C
Operat. pres.: max. 16 bar

Applications
The diaphragm and bladder tanks are used in
• Water supply systems in housing
• Pressure boosting systems in housing
• Agriculture
• Horticulture
• Industrial systems

Features and benefits
• Optimal water supply
• Reduced number of pump starts
• Ideal for drinking water

Options
• Overpressure protection
• Dry-running protection
### Technical data

**KP, AP, AP35B, AP50B - stainless steel**

**Drainage pumps**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow, Q:</td>
<td>max. 35 m³/h</td>
</tr>
<tr>
<td>Head, H:</td>
<td>max. 18 m</td>
</tr>
<tr>
<td>Liquid temp.:</td>
<td>0°C to +55°C</td>
</tr>
<tr>
<td>Particle size:</td>
<td>max. ø50 mm</td>
</tr>
</tbody>
</table>

**Applications**

- 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 AP50B are suitable for installation on auto-coupling

### Technical data

**SEG**

**Grinder pumps**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow, Q:</td>
<td>max. 5 l/s</td>
</tr>
<tr>
<td>Head, H:</td>
<td>max. 47 m</td>
</tr>
<tr>
<td>Liquid temp.:</td>
<td>0°C to +40°C</td>
</tr>
</tbody>
</table>

**Applications**

The pumps are suitable for the pumping of wastewater and sewage through pipes of 40 mm 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

### Technical data

**AMD, AMG, AFG - stainless steel**

**Mixers and flowmakers**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid temp.:</td>
<td>+5°C to +40°C</td>
</tr>
<tr>
<td>pH value:</td>
<td>4 to 10</td>
</tr>
<tr>
<td>Axial thrust:</td>
<td>160 to 3931 N</td>
</tr>
<tr>
<td>Max. dynamic viscosity:</td>
<td>500 mPa s</td>
</tr>
<tr>
<td>Max. density:</td>
<td>1060 kg/m³</td>
</tr>
<tr>
<td>Max. installation depth:</td>
<td>30 m</td>
</tr>
</tbody>
</table>

**Applications**

The mixers and flowmakers are designed for mixing, i.e. homogenization 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 180 mm and 2300 mm 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
**Technical data**

- Flow, Q: max. 60 l/s (216 m³/h), recom. 31 l/s (110 m³/h)
- Head, H: max. 29 m
- Liquid temp.: 0°C to +40°C

**Applications**

The lifting stations are suitable for use in:
- Single- and multi-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 connection
- Cable plug connection
- Unique clamp assembly system
- Single-channel and vortex impellers
- Solids passage up to 100 mm
- Low risk of clogging
- Minimum downtime
- Low operating costs
- Liquidless motor cooling
- Unique cartridge shaft seal
- Modular design

---

**Sololift+**

Small lifting stations

**Applications**

Sololift+ can be used for:
- Extra bathrooms
- Basement installations
- Low-cost bathrooms in holiday cottages
- Added facilities in hotels and guesthouses
- Bathrooms for the elderly or the disabled
- Renovation of offices and other commercial buildings.

**Features and benefits**

- Unique design with smooth line and rounded edges - fits every modern bathroom environment
- Plug-and-go product - all you need in one package
- Low noise level
- Discharge pipe connection in the side ensures easy maintenance
- Flexible discharge pipe adapters for outer pipe diameters of ø23, ø25, ø28 and ø32 mm
- Thermal overload switch
- Cover without screws - easy service
- Easy connection of extra sanitary appliances

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**CWC-3**

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

**C-3**

Especially designed for high liquid temperature wastewater from washing machine or dishwasher
- Compact and slim for easy installation under a washbasin or in a closet
Technical data
Flow, Q: max. 2500 l/s
Head, H: max. 116 m
Liquid temp.: 0°C to +40°C
Discharge diameter: DN 80 to DN 500
Particle size: max. ø145 mm

Applications
The pumps are suitable for the following 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

Technical data
Flow, Q: max. 1300 l/s
Head, H: max. 1.8 m
Liquid temp.: 5°C to +40°C
Column pipe diameter: DN300, DN500 and DN800

Applications
The pumps are suitable for the following applications
• 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

Technical data
Flow, Q: max. 215 l/s
Head, H: max. 50 m
Liquid temp.: 0°C to +40°C
Discharge diameter: DN 80 to DN 250

Applications
The pumps are suitable for the following 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
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 diameter: DN 65 to DN 150

Applications
The pumps are suitable for the following applications:
• Wastewater
• Process water
• Unscreened 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
• Minimum downtime
• Low operating costs
• Liquidless motor cooling
• Unique cartridge shaft seal
• Modular design

Options
• Control and protection systems
• Motor operation control

DP, EF, SE1 and SEV
Drainage, effluent and sewage pumps

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

Applications
The pumps are suitable for:
• 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 65 mm
• Unique cartridge shaft seal
• Modular design
• Minimum downtime

Options
• Control and protection systems
• Motor operation control