# A WIDE RANGE OF QUALITY PUMPS
# PRODUCT OVERVIEW

BE › THINK › INNOVATE ›

GRUNDFOS

## 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 oriented research and development; customers are consulted when new products are developed or when established products are improved.

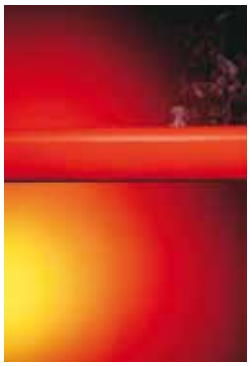
Research and development make use of the latest technology within the pump industry, collaborating with universities and higher education institutions in search of new and better solutions for the design and function of the products.

### 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

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



### 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 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.

# Contents

*Hygienic Pumps*



*Submersible Pumps*



*Pump & Motor Monitoring*



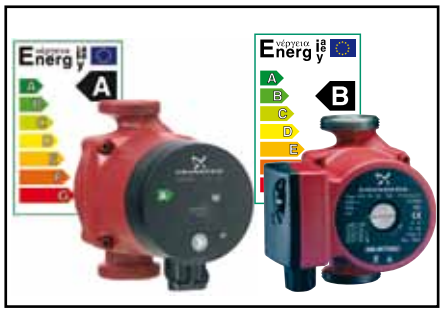
*Pump Controls & Commissioning Tool*



*Variable Speed Drives*

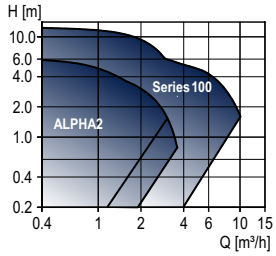


*Lifting Stations & Mixers/Flowmakers*



## ALPHA2, UPS Selectric, UPS Series 100

Circulator pumps, canned-rotor type




### 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

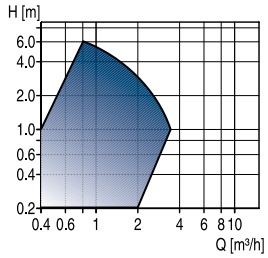
- Maintenance-free
- Low-noise
- Low-energy
- Wide range

### 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

## PumpPlan

Circulator pumps, canned-rotor type




### 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

### Features and benefits

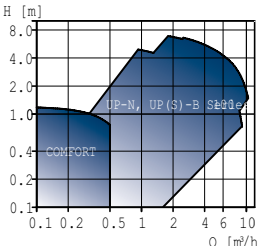
- Maintenance-free
- Low-noise
- Low-energy
- Wide range

### Options

- Automatic performance adjustment
- Simple installation - external plug for electrical connection
- 3-speed performance adjustment

## UP(S)N, UP-N, UP Series 100, Comfort

Circulator pumps, canned-rotor type




### 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

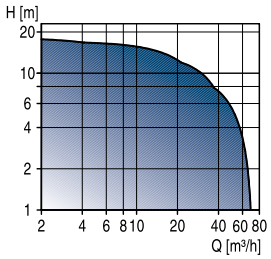
- Maintenance-free
- Low-noise
- Low-energy
- Wide range
- Corrosion-resistant stainless steel, bronze pump housing

### Options (Comfort)

- 24-hour timer
- Adjustable thermostat

## 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 |
| 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

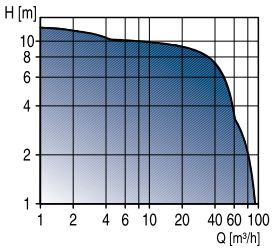
- Maintenance-free
- Built-in thermal switch
- Low-noise
- Low-energy
- Single-phase, built-in protection module
- Wide range

### Options

- Protection module
- Relay module with fault signal or operating output
- Bronze pump housing
- Twin-head 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

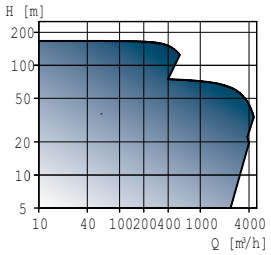
- Low-noise
- Low-energy
  Energy label A-rated
- Wide range
- Automatic performance adjustment
- Simple installation - no extra equipment or fittings required
- Safe selection

### Options

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

## 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

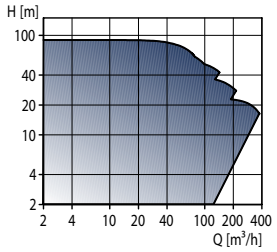
- Compact design
- Wide range
- Standard motor
- Service-friendly
- Various types of shaft seals depending on liquid, temperature and pressure

### 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

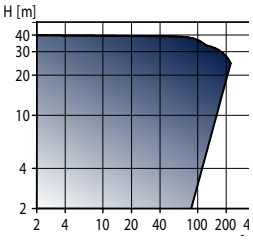
- District heating plants
- Cooling and air-conditioning systems
- Industrial plants

### 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

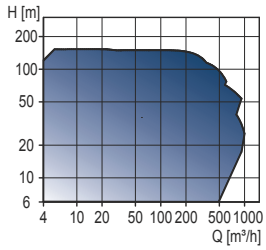
- Low-energy
- Adaptation to existing operating conditions
- Simple installation

### Options

- Wireless remote control, R100
- Communication via GENIbus, BACnet MS/TP, LON, Modbus RTU or Profibus DP
- 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

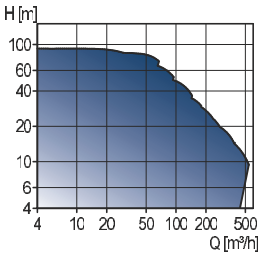
- Standard dimensions according to EN and ISO standards
- Compact design
- Flexible pump range
- Standard motor
- Adaptable to any application and performance
- EN 12756 shaft seal

### 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

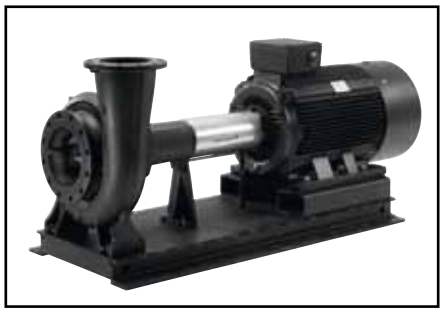
- District heating plants
- Heating systems for blocks of flats
- Air-conditioning systems
- Cooling systems
- Washdown systems
- Other industrial systems

### 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

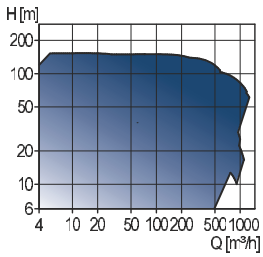
### Options

- 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

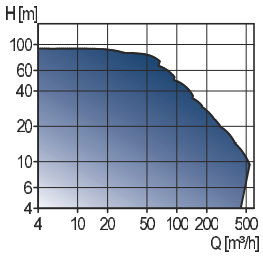
- Standard dimensions according to EN or ISO standards
- Wide range
- Robust design
- Standard motor
- Adaptable to any application /performance
- EN 12756 shaft seal

### 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
- Water supply systems
- 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

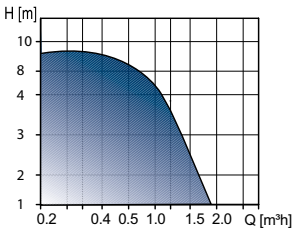
- Water supply systems in housing
- System expansion for heating and chilled water
- Agriculture
- Horticulture
- Industrial systems

### Features and benefits

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

## UPA 15-90 N

Home booster pump




### Technical data

| | |
|---|---|
| Flow, Q: | max. 1.4m³h |
| 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

## Grundfos Watermill Shower Pumps

Shower Booster 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.

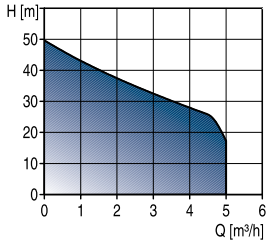
### Features and benefits

- 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

## JP

Self-priming jet pumps




### 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

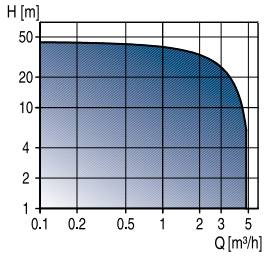
- Self-priming
- Stable operation even in case of air pockets in the liquid

### 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

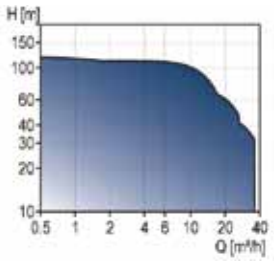
- Small or large family houses
- Weekend cottages
- Farms
- Greenhouses

### 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

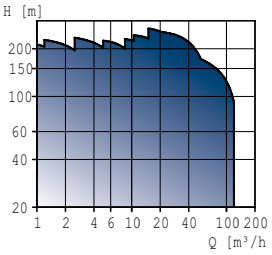
- Compact design
- Modular design
- Low-noise level

### 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

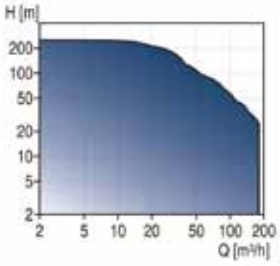
- Reliability
- High efficiency
- Service-friendly
- Space-saving
- Suitable for slightly aggressive liquids

### 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

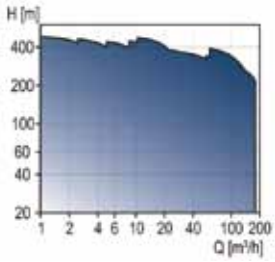
- Wide range
- Reliability
- In-line design
- High efficiency
- Service-friendly
- Space-saving
- Many control facilities

### Options

- Wireless remote control, R100

## 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

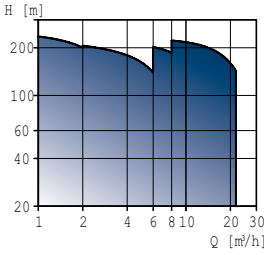
- Reliability
- High pressures
- Service friendly
- Space - saving
- Suitable for slightly aggressive liquids
- Single pump solution enabling high pressure

### Options

- Dry-running protection and motor protection via LiqTec

## 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

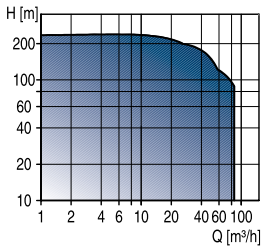
- High corrosion resistance
- Reliability
- High efficiency
- Service-friendly
- Space-saving

### Options

- Dry-running protection and motor protection via LiqTec

## SPK, MTH, CRK, MTR, MTA, MTRE

Multistage centrifugal immersible pumps




### 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

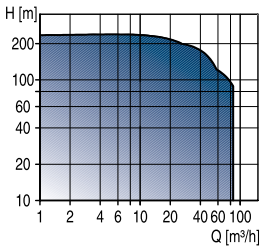
- Spark machine tools
- Grinding machines
- Machining centres
- Cooling units
- Industrial washing machines
- Filtering systems
- Lathes
- Swarf conveyors

### Features and benefits

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

## SPKE, MTRE

Multistage centrifugal immersible pumps - electronically controlled




### 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

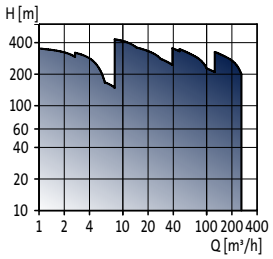
- Wide range
- Reliability
- Service-friendly
- Simple installation
- Space saving
- High efficiency
- Many control facilities

### Options

- Wireless remote control, R100

## BM, BMB

4", 6", 8" booster modules




### 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 tow standard bathrooms with standard fittings, or en-suite, and cloakroom, plus other normal household appliances. 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

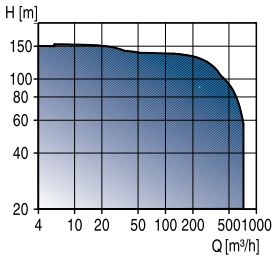
Cold water pressure boosting for large domestic properties with two or more bathrooms or installations with high flow outlet fittings.

### 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

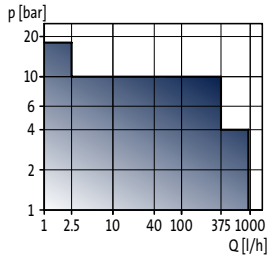
- Water supply systems
- Irrigation systems
- Water treatment systems
- Industrial plants

### 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

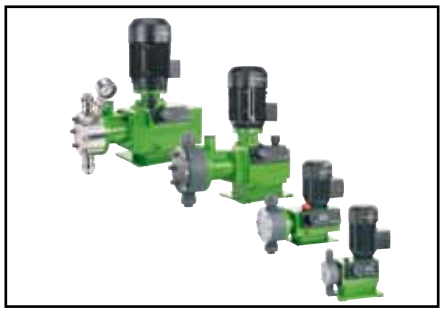
| | |
|---|---|
| Capacity, Q: | max. 940 l/h |
| Pressure P: | max. 18 bar |
| Liquid temp.: | +50°C |

### Applications

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

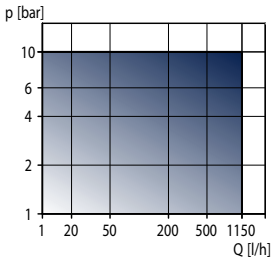
### Features and benefits

- 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



## DMX, DMH

Motor-driven diaphragm dosing pumps




### Technical data

| | |
|---|---|
| Capacity, Q: | max. 2000l/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

## 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
  $NaClO_2$: 24.5% by weight
- Capacity: 30 - 2000 g/h

Model OCC-164:

- Hypochloric acid/sodium chlorite method with diluted chemicals:
  HCl: 9% by weight
  $NaClO_2$: 7.5% by weight
- Capacity: max. 10 kg/h

Model OCG-166:

- Chlorine gas/sodium chlorite method:
  $NaClO_2$: 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

## 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
  $NaClO_2$: 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

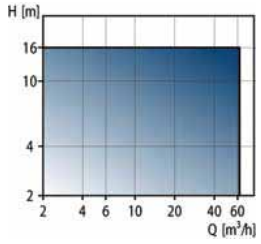
- Water treatment in municipal waterworks and with independent water suppliers
- Treatment of industrial wastewater
- Treatment of industrial process water, and water in cooling towers
- Water treatment in public swimming baths, hotel pools and therapy pools

### Features and benefits

- Turn-key systems
- Only water, common salt and electricity are needed for the Selcoperm electrolysis method
- Fresh disintectant 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 . 10 bar |

### Applications

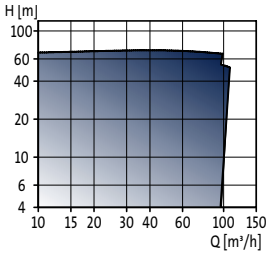
Pumping viscous media in applications in:
- Beverage Industries
- Breweries
- Dairies
- Pure water systems (WFI)
- Food processing industries
- Biotechnology
- Cosmetics Industries
- Pharmaceutical Industries
- Chemical Industries

### 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

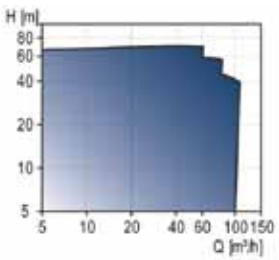
- Unique hygienic design (QHD, EHEDG and 3A standards)
- CIP and SIP capable (DIN EN 12462)
- Customised solutions
- Materials: AISI 316L (DIN EN 1.4404/1.4435)
- Gentle media handling

### Options

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

## 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

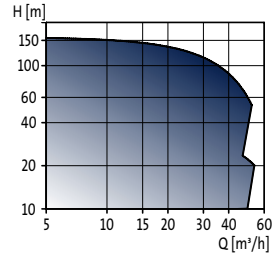
- Unique hygienic design
- CIP and SIP capable (DIN EN 12462)
- Materials: AISI 316 (DIN EN 1.4404)
- Compact design

### Options

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

## 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

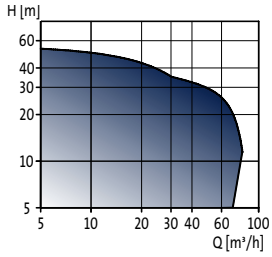
- Unique hygienic design (QHD, EHEDG and 3A standards)
- CIP and SIP capable (DIN EN 12462)
- High efficiency
- Materials: AISI 316L (DIN EN 1.4404/1.4435)

### 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 |
| Op. temp: | +95°C |
| | (+150°C on request) |
| Op. press: | max 10 bar |

### Applications

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

### Features and benefits

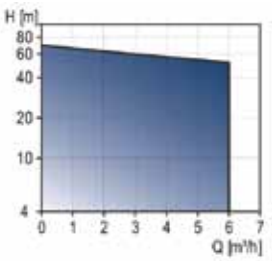
- Meets the 3A hygienic standard
- High air-content handling
- Efficient priming

### Options

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

## Durietta

Single and multi-stage, end suction sanitary pumps




### Technical data

| | |
|---|---|
| Flow, Q: | max. 6m³/h |
| Head, H: | max. 75 m |
| Op. temp: | +90°C |
| Op. press: | max. 8 bar |

### Applications

- Microbreweries and dairies
- Bottling systems
- Purification systems
- Drinking water systems
- Industrial applications

### Features and benefits

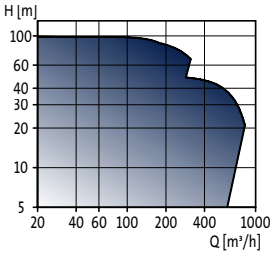
- Unique hygienic design
- CIP capable (DIN EN 12462)
- Materials: AISI 316 (DIN EN 1.4404)
- Compact design

### Options

- Wide range of pipe connections
- Various shaft seals
- With or without motor shroud

## 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 |
| | (+150°C on request) |
| 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

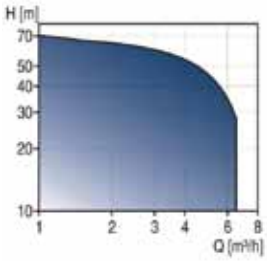
- Optimised hydraulics
- Gentle product handling
- Materials: AISI 316 (DIN EN 1.4404)
- Service and repair friendly

### 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

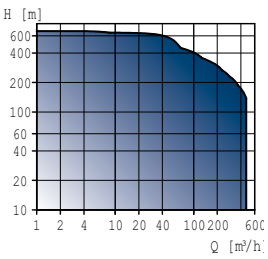
- Private homes and weekend cottages.
- Conventional 6” boreholes
- Shallow wells
- Rainwater collection in tanks
- Boosting of public water
- Emptying of garden ponds

### 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

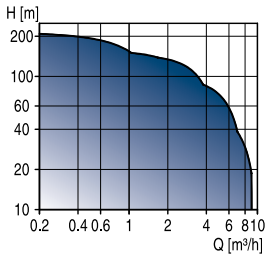
- Wide range of rewindable motors
- Easily rewinded
- Protection against upthrust
- High efficiency
- 6” and 8” have standardised NEMA head and shaft end
- Mechanical shaft seal ceramic/carbon or SiC/SiC
- PVC or PE/PA windings

### 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

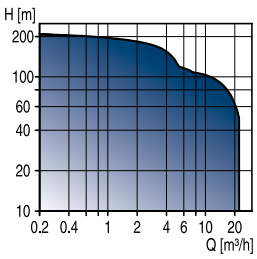
- Integrated dry-running protection
- Soft start
- Over and undervoltage protection
- High efficiency

### 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

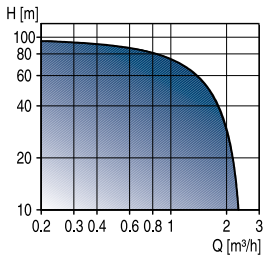
- Same features and benefits as SQE

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 |

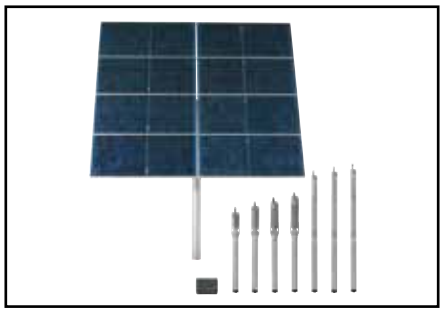
### Applications

The pumps are suitable for

- Sampling

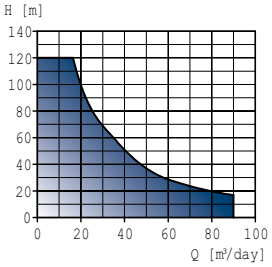
### Features and benefits

- 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

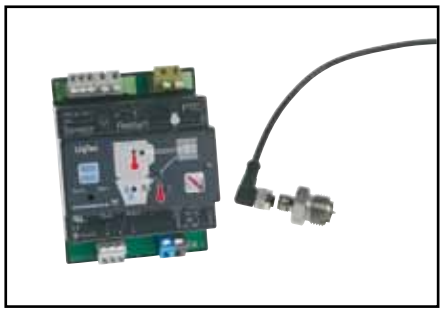
- Pumps in demanding applications where zero downtime is required
- Pumps exposed to extreme wear or clogging due to materials in the pumped liquid
- Pumps in processes where continuous monitoring and control are essential

### 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



## 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

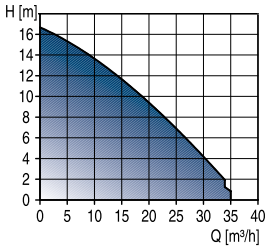
- Protection against dry running and too high motor temperature
- Constant monitoring of pump energy consumption
- Reading out of operating data via R100

### Options

- Connection to large control systems via BUS-communication
- Connection of sensors enabling control based on sensor signals

## 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 o f swimming-pools and excavations
- Drainage of drain wells
- Emptying of tanks and reservoirs

### Features and benefits

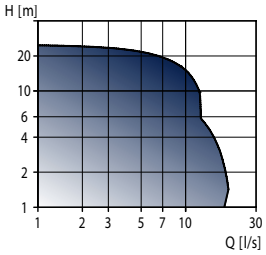
- Simple installation
- Service and maintenance free

### Options

AP35B and AP50B are suitable for installation on auto-coupling

## 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

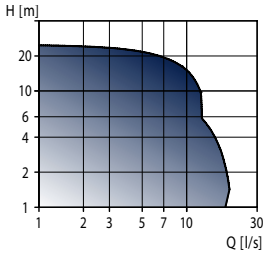
- Cable plug connection
- Flexible pipe and cable plug connections
- Unique clamp connection
- Single-channel and vortex impellers
- Solids passage up to 65mm
- Unique cartridge shaft seal
- Modular design
- Minimum downtime

### 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

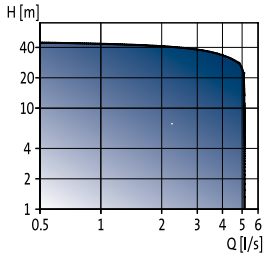
- Cable plug connection
- Unique clamp connection
- Single-channel and vortex impellers
- Solids passage up to 65mm
- Unique cartridge shaft seal
- Modular design
- Minimum downtime

### 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 |

### Applications

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

### Features and benefits

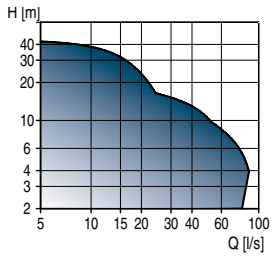
- Service-friendly
- Installation on foot or auto-coupling
- Continuous operation with fully submerged pump
- Built-in motor protection
- SmartTrim
- Improved grinder system
- Totally sealed cable plug

### Options

- Wide range of accessories
- Monitoring and control of one or several pumps

## SE

Heavy duty submersible pumps




### Technical data

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

### Applications

The pumps are suitable for:

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

### Features and benefits

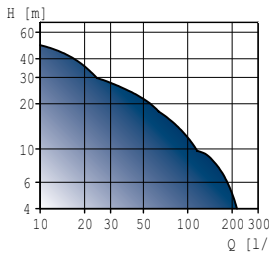
- Cable plug connection
- Unique clamp assembly system
- Single-channel and vortex impellers
- Solids passage up to 100 mm
- Low risk of clogging
- Low operating costs
- Liquidless motor cooling
- Unique cartridge shaft seal

### Options

- Control and protection systems
- Motor operation control

## SEN

Submersible stainless steel pumps




### Technical data

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

### Applications

The pumps are suitable for

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

### Features and benefits

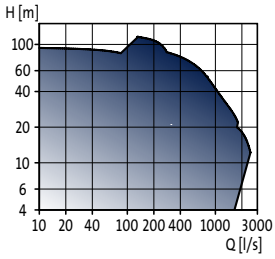
- SmartTrim
- Operation with/without cooling jacket
- Submerged or dry installation
- Different types of impellers
- Built-in motor protection
- Various executions in stainless steel
- Liquids with a pH value between 2 and 14

### Options

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

## 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 toi DN 500 |
| Particle size: | max ø145mm |

### Applications

The pumps are suitable for:

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

### Features and benefits

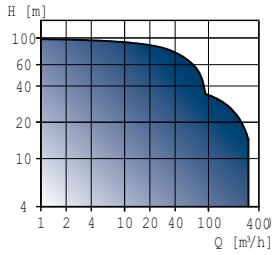
- Wide range
- SmartTrim
- Operation with/without cooling jacket
- Submerged or dry installation
- Different types of impellers
- Built-in motor protection

### 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

## 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 |
| | short periods 80°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
- Angular mounting brackets to counteract bouyancy
- LGA approval
- Modern design
- Easy to clean

## 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 |
| | short periods 80°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

## Sololift2

Domestic lifting stations

### Applications

- Extra bathrooms
- Basement installations
- Low-cost bathrooms in holiday cottages
- Added facilities in hotes and guest houses
- 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

## Drainaway

Domestic lifting stations

### Technical data

| | |
|---|---|
| Inlet dimension: | 3 x DN 100 |
| | +1 x DN 40/50 |
| Discharge connection: | DN 40 |
| Effective volume: | 13 1. |

### Applications

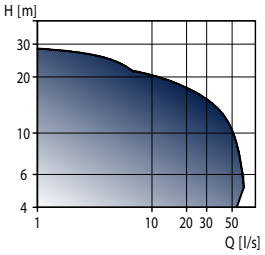
- Collection of drainage and surface water
- Collection and pumping of wastewater from basement and laundry rooms below sewer level
- Collection and pumping of wastewater from washbasins, washing machines and floor drains to sewer level
- Collection and pumping of rainwater

### 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

## Lifting stations

Complete pumping stations




### Technical data

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

Discharge diameter: DN 80 to DN 100

### 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
- Sturdy 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.

## 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

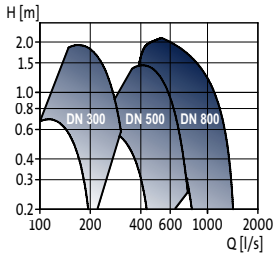
The mixers and flowmakers are equipped with propellers made of stainless steel or composite material with a diameter between 180mm and 2300mm and a rotation speed between 22 $min^{-1}$ and 1400 $min^{-1}$

### 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 wmaterials
- Self-cleaning stainless steel or polyamide propellers

## 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

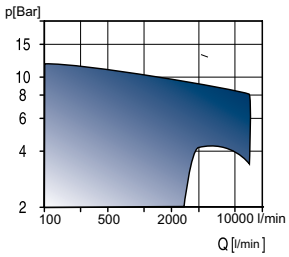
- High efficiency stainless steel propeller
- Totally submerged installations
- Built-in motor protection
- Flexibility of installation

### 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

# GRUNDFOS PUMPS LTD

## Office Addresses

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## Spares Team

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Service Warranty Workshop (Leigh): Tel: 01942 263627 Fax: 01942 603462 Email: service@europump.co.uk

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