

GRUNDFOS A WIDE RANGE OF QUALITY PUMPS
50 Hz



BE > THINK > INNOVATE >

GRUNDFOS 



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 userfriendly 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.

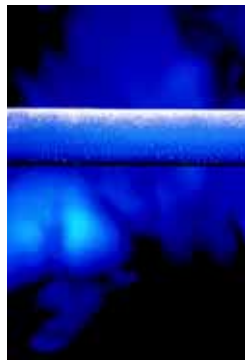
Pumps for all purposes

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.



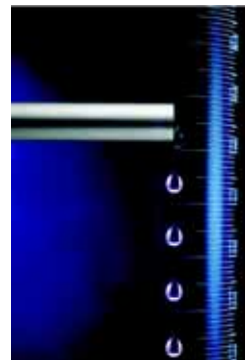
Sewage and wastewater

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.

Product and application overview

Heating and hot water service systems

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Product and application overview

Pressure boosting and liquid transfer

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Domestic water supply

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CR, CRI, CRN	15
CRE, CRIE, CRNE	17
DME, DMS	14
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Hydro 2000, Hydro 1000, Hydro Solo, Hydro Multi-E	19
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Pressure tanks	25

Sewage and wastewater

AMD, AMG, AFG	26
CHI, CHIU	15
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DME, DMS	14
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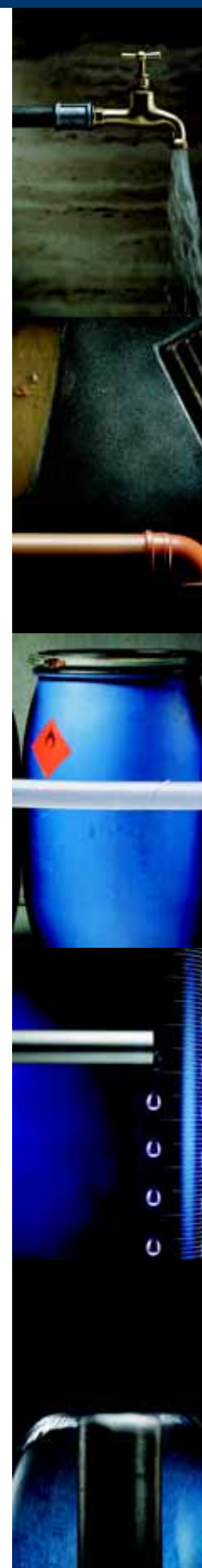
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Renewable-energy systems

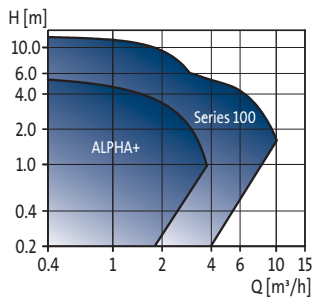
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GRUNDFOS ALPHA+ UPS, UP Series 100

Circulator pumps, canned-rotor type



Technical data

Flow, Q:	max. 10 m ³ /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

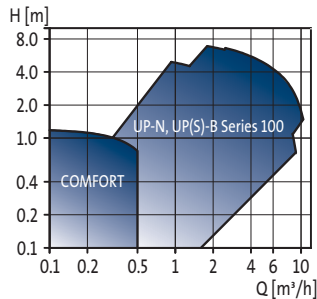
Options

- 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 m ³ /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
 - Cooling and air-conditioning systems

Features and benefits

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

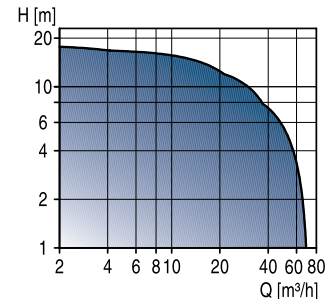
Options

- 24-hour timer
- Adjustable thermostat



UPS Series 200

Circulator pumps, canned-rotor type



Technical data

Flow, Q:	max. 70 m ³ /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

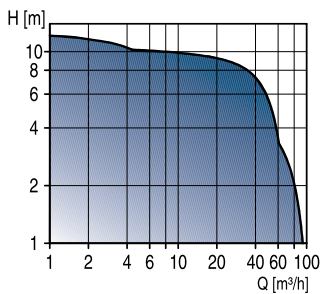
Options

- 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

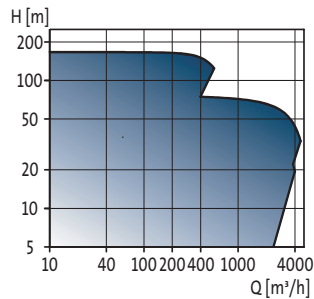
Options

- 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

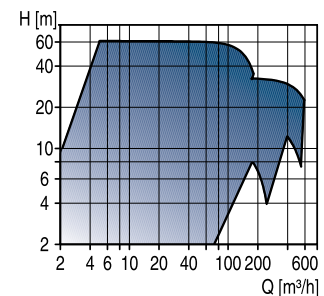
Options

- 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

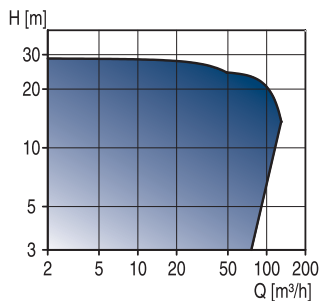
Options

- 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

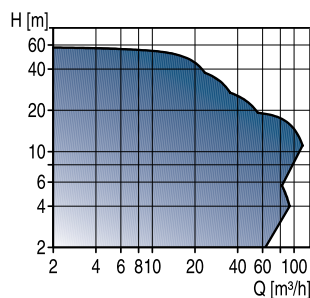
Options

- 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



PMU 2000, PCU 2000

Pump controllers

Applications

PMU 2000

- 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

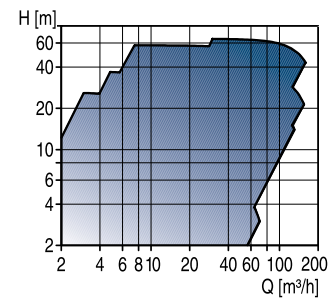
Options

- 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

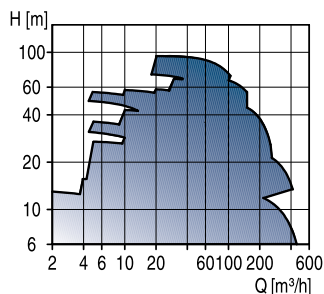
Options

- Various types of shaft seal depending on liquid, temperature and pressure



NB, NBG

Single-stage standard pumps



Technical data

Flow, Q:	max. 460 m ³ /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

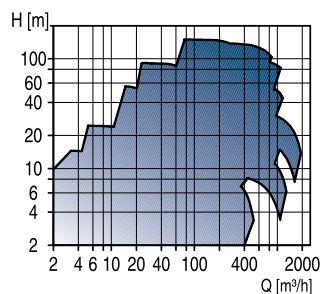
Optional

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



NK, NKG

Single-stage standard pumps



Technical data

Flow, Q:	max. 2000 m ³ /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
- Industry
- Fire fighting systems
- Environment engineering

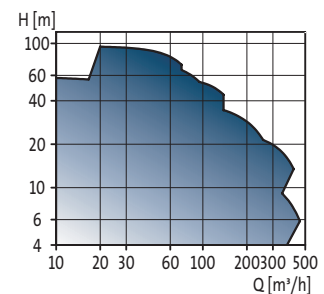
Features and benefits

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



NBE

Single-stage standard pumps - electronically controlled



Technical data

Flow, Q:	max. 189 m ³ /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

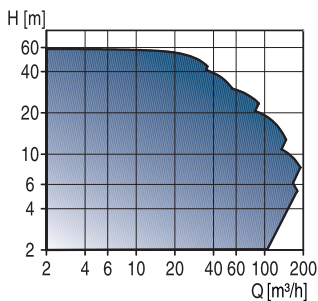
Optional

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



NKE

Single-stage standard pumps - electronically controlled



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

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 DIN standards
- Wide range
- Robust design
- Heavy-duty
- Many control facilities

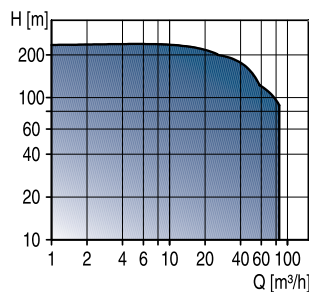
Options

- Wireless remote control, R100



SPK, CHK, MTH, CRK, MTR, MTA

Multistage centrifugal immersible pumps



Technical data

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

Applications

The pumps are suitable for liquid transfer in

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

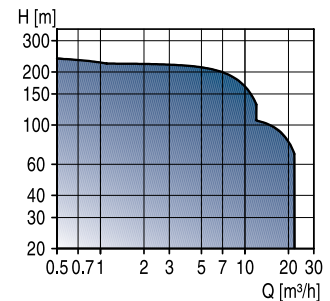
Features and benefits

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



SPKE, CRKE

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
 Operat. pres.: max. 25 bar

Applications

The pumps are suitable for

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

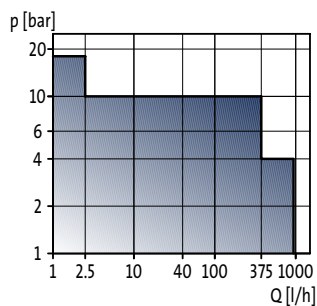
Features and benefits

- 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

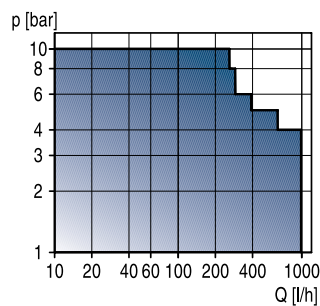
Features and benefits

- 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

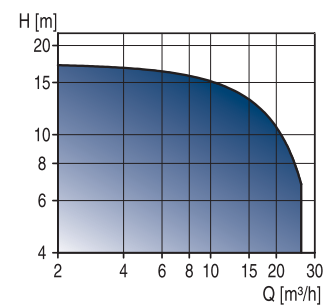
Features and benefits

- 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

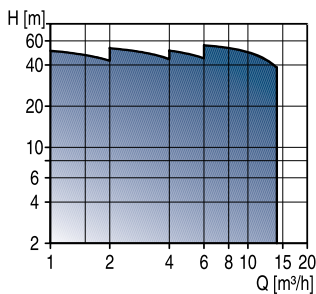
Options

- 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)

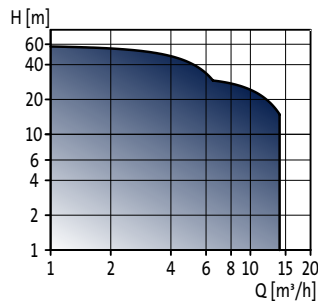
Features and benefits

- 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

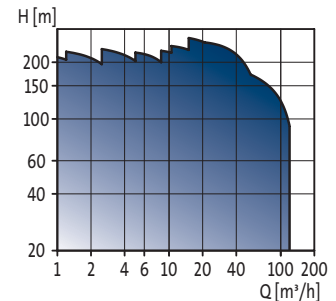
Options

- 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

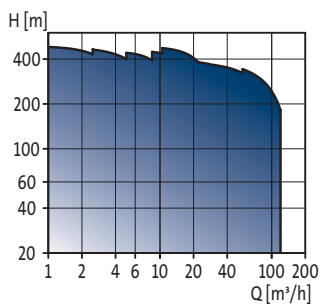
Options

- Dry-running protection and motor protection via LiqTec



CR, CRN high pressure

Multistage centrifugal pumps



Technical data

Flow, Q:	max. 120 m ³ /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

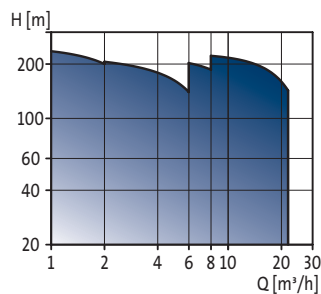
Options

- Dry-running protection and motor protection via LiqTec



CRT

Multistage centrifugal pumps



Technical data

Flow, Q:	max. 22 m ³ /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

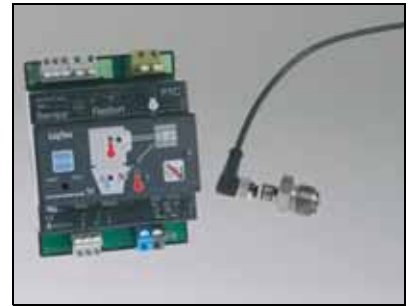
- Process water systems
- Washing in cleaning systems
- Sea water systems
- Pumping of acids and alkalis
- Ultra filtration systems
- Reverse osmosis systems
- Swimming baths

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

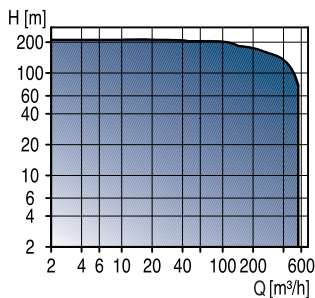
Features and benefits

- 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

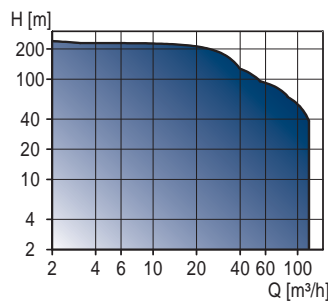
Features and benefits

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



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

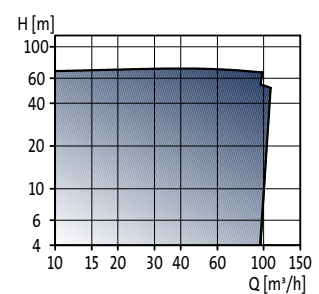
Options

- Wireless remote control, R100



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
 (+150°C on request)
 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.

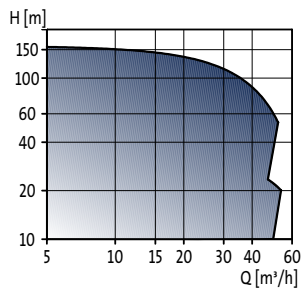
Options

- 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 m ³ /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).

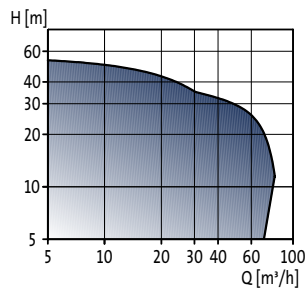
Options

- 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 m ³ /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.

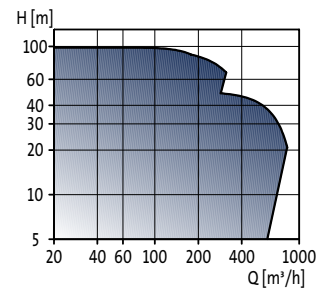
Options

- 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 m ³ /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.

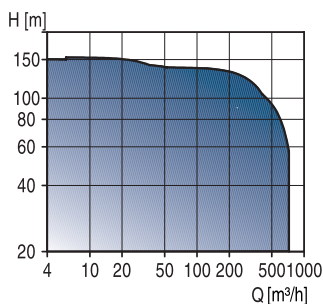
Options

- 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 m³/h
 Head, H: max. 160 m
 Liquid temp.: 0°C to +70°C
 Operat. pres.: max. 16 bar

Applications

Hydro 2000 are suitable for pressure boosting in

- 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 m³/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

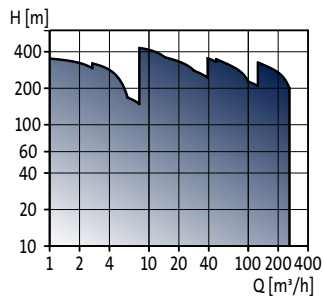
Features and benefits

- 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



Technical data

Flow, Q:	max. 260 m ³ /h
Head, H:	max. 430 m
Liquid temp.:	0°C to +40°C
Operat. pres.:	max. 80 bar

Applications

The booster modules are suitable for pressure boosting in

- Reverse osmosis systems
- Water supply systems
- Water treatment systems
- Industrial plants

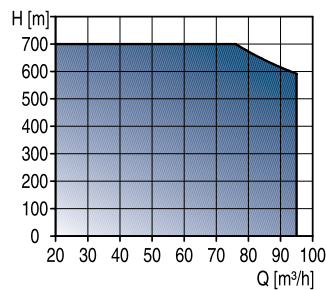
Features and benefits

- Various material versions
- Low-noise
- Simple installation
- Modular design
- Compact design
- Leakage-free



BME, BMET

High-pressure booster systems



Technical data

Flow, Q:	max. 95 m ³ /h
Head, H:	max. 700 m
Liquid temp.:	0°C to +40°C
Operat. pres.:	max. 70 bar

Applications

The booster systems are suitable for pressure boosting in

- Reverse osmosis systems
- Water supply systems
- Water treatment systems
- Industrial plants

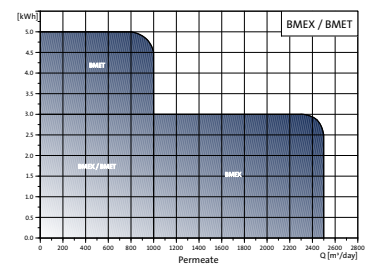
Features and benefits

- 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)



Technical data

Permeate per day:	500 to 2500 m ³
Head, H:	max. 810 m
Ambient temp.:	+40°C
Operat. pres.:	max. 80 bar

Applications

- Desalination of brackish water and seawater

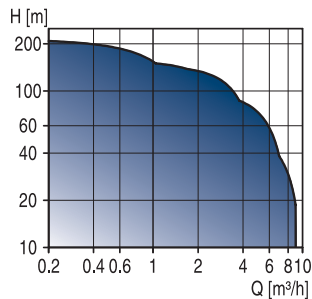
Features and benefits

- 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

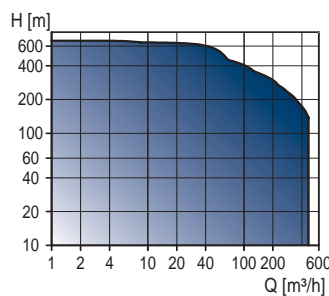
Options

- 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

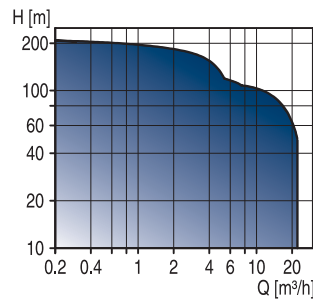
Options

- Material variants available
- Overtemperature protection via Pt100



SQE-NE, SP-NE

Environmental pumps



Technical data

Flow, Q:	max. 22 m ³ /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

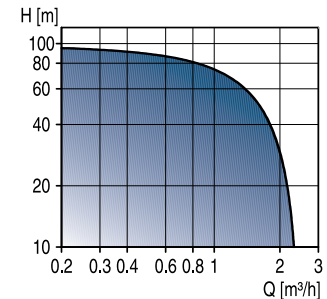
Features and benefits

- SQE-NE
- Same features and benefits as SQE
- SP-NE
- Same features and benefits as SP



MP 1

Environmental pumps



Technical data

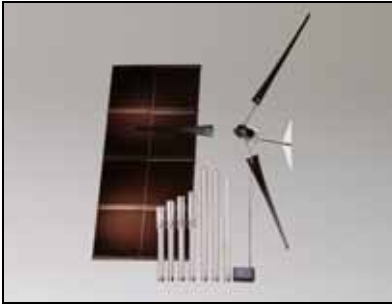
Flow, Q:	max. 2.4 m ³ /h
Head, H:	max. 95 m
Liquid temp.:	0°C to +35°C

Applications

- The pumps are suitable for
- Sampling

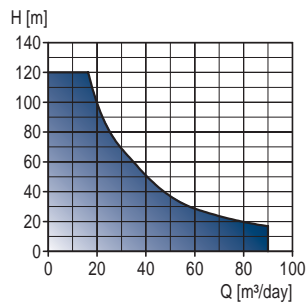
Features and benefits

- 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

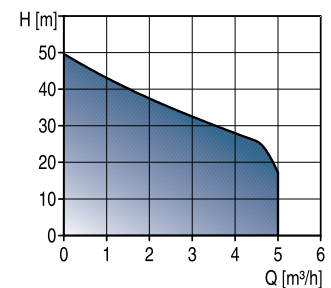
Options

- 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

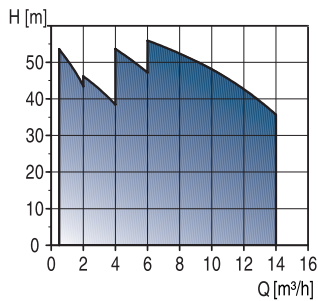
Options

- 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 m ³ /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

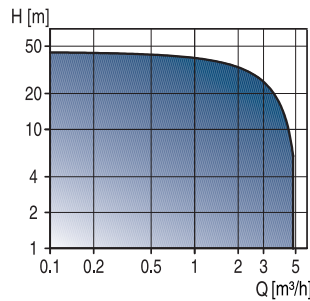
Options

- 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 m ³ /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

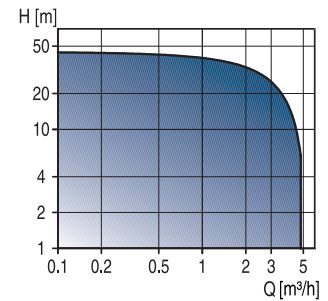
Features and benefits

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



RMQ

Rainwater unit for monitoring and control of rainwater systems



Technical data

Flow, Q:	max. 5 m ³ /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

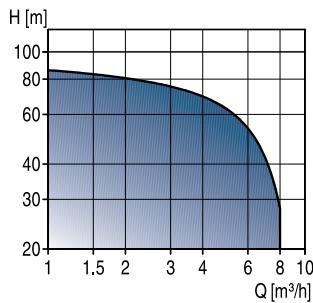
Options

- 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

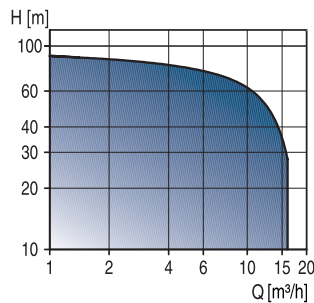
Features and benefits

- 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

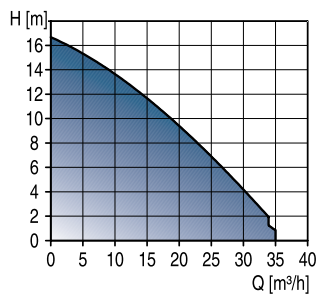
Features and benefits

- Optimal water supply
- Reduced number of pump starts
- Ideal for drinking water



KP, AP, AP35B, AP50B - stainless steel

Drainage pumps



Technical data

Flow, Q:	max. 35 m ³ /h
Head, H:	max. 18 m
Liquid temp.:	0°C to +55°C
Particle size:	max. ø50 mm

Applications

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

Features and benefits

- Simple installation
- Service- and maintenance-free

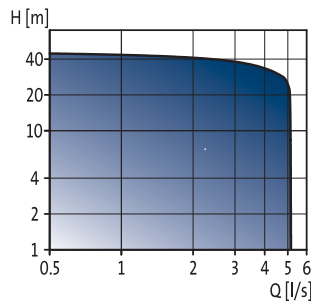
Options

- AP35B and AP50B are suitable for installation on auto-coupling



SEG

Grinder pumps



Technical data

Flow, Q:	max. 5 l/s
Head, H:	max. 47 m
Liquid temp.:	0°C to +40°C

Applications

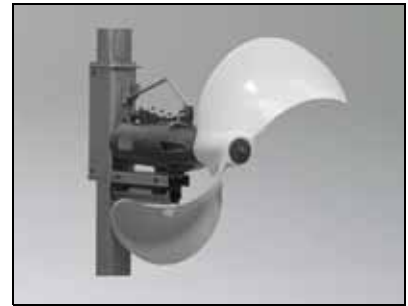
The pumps are suitable for the pumping of wastewater and sewage through pipes of 40 mm in diameter and upwards.

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



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/m ³
Max. installation depth:	30 m

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.

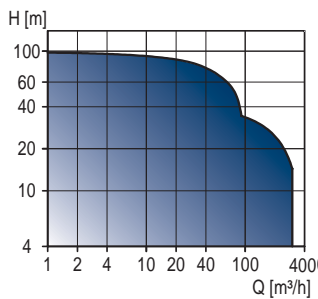
Features and benefits

- 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



DW

Contractor pumps



Technical data

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

Applications

The pumps are suitable for liquid transfer in

- Tunnels
- Mines
- Quarries
- Gravel pits
- Fish ponds
- Building sites

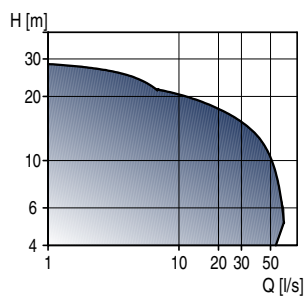
Features and benefits

- Extremely hard-wearing due to specially selected materials
- Simple installation
- Service-friendly



Lifting stations

Complete pumping stations



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
 Discharge diameter: DN 80 to DN 100

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 guest-houses
- 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

CWC-3

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

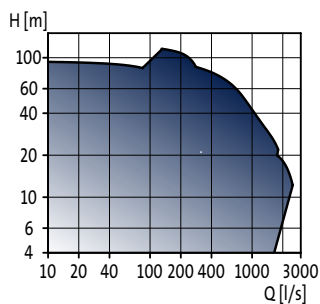
C-3

- 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



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 diameter: DN 80 to DN 500
 Particle size: max. ϕ 145 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

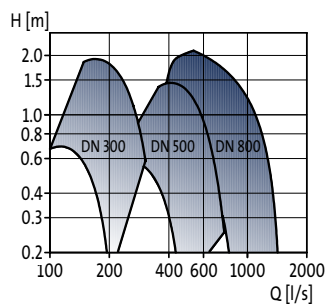
Options

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



SRP pumps

Submersible re-circulation pumps



Technical data

Flow, Q: max. 1300 l/s
 (4680 m³/h)
 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

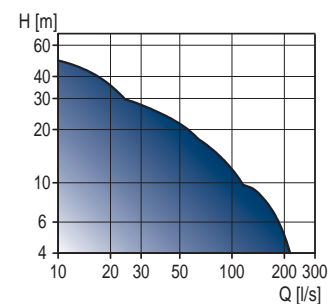
Options

- Control and protection systems



SEN

Submersible stainless steel pumps



Technical data

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

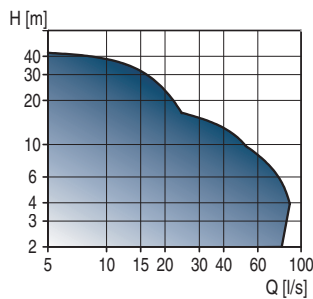
Options

- 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

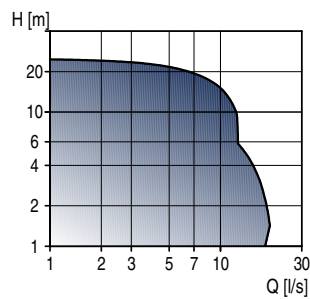
Options

- 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

Denmark

GRUNDFOS DK A/S
Poul Due Jensens Vej 7A
DK-8850 Bjerringbro
Tlf.: +45-87 50 50 50
Telefax: +45-87 50 51 51
E-mail: info_GDK@grundfos.com
www.grundfos.com/DK

Argentina

Bombas GRUNDFOS de Argentina S.A.
Ruta Panamericana km. 37.500 Lote 34A
1619 - Garin
Pcia. de Buenos Aires
Phone: +54-3327 414 444
Telefax: +54-3327 411 111

Australia

GRUNDFOS Pumps Pty. Ltd.
P.O. Box 2040
Regency Park
South Australia 5942
Phone: +61-8-8461-4611
Telefax: +61-8-8340 0155

Austria

GRUNDFOS Pumpen Vertrieb Ges.m.b.H.
Grundfosstraße 2
A-5082 Grödig/Salzburg
Tel.: +43-6246-883-0
Telefax: +43-6246-883-30

Belgium

N.V. GRUNDFOS Bellux S.A.
Boomsesteenweg 81-83
B-2630 Aartselaar
Tél.: +32-3-870 7300
Télécopie: +32-3-870 7301

Brazil

GRUNDFOS do Brasil Ltda.
Rua Tomazina 106
CEP 83325 - 040
Pinhais - PR
Phone: +55-41 668 3555
Telefax: +55-41 668 3554

Canada

GRUNDFOS Canada Inc.
2941 Brighton Road
Oakville, Ontario
L6H 6C9
Phone: +1-905 829 9533
Telefax: +1-905 829 9512

China

GRUNDFOS Pumps (Shanghai) Co. Ltd.
22 Floor, Xin Hua Lian Building
755-775 Huai Hai Rd, (M)
Shanghai 200020
PRC
Phone: +86-512-67 61 11 80
Telefax: +86-512-67 61 81 67

Czech Republic

GRUNDFOS s.r.o.
Cajkovského 21
779 00 Olomouc
Phone: +420-585-716 111
Telefax: +420-585-438 906

Finland

OY GRUNDFOS Pumput AB
Mestarintie 11
Piispankylä
FIN-01730 Vantaa (Helsinki)
Phone: +358-9 878 9150
Telefax: +358-9 878 91550

France

Pompes GRUNDFOS Distribution S.A.
Parc d'Activités de Chesnes
57, rue de Malacombe
F-38290 St. Quentin Fallavier (Lyon)
Tél.: +33-4 74 82 15 15
Télécopie: +33-4 74 94 10 51

Germany

GRUNDFOS GMBH
Schlüterstr. 33
40699 Erkrath
Tel.: +49-(0) 211 929 69-0
Telefax: +49-(0) 211 929 69-3799
e-mail: infoservice@grundfos.de
Service in Deutschland:
e-mail: kundendienst@grundfos.de

Greece

GRUNDFOS Hellas A.E.B.E.
20th km. Athinon-Markopoulou Av.
P.O. Box 71
GR-19002 Peania
Phone: +0030-210-66 83 400
Telefax: +0030-210-66 46 273

Hong Kong

GRUNDFOS Pumps (Hong Kong) Ltd.
Unit 1, Ground floor
Siu Wai Industrial Centre
29-33 Wing Hong Street &
68 King Lam Street, Cheung Sha Wan
Kowloon
Phone: +852-27861706/27861741
Telefax: +852-27858664

Hungary

GRUNDFOS Hungária Kft.
Park u. 8
H-2045 Törökbálint,
Phone: +36-34 520 100
Telefax: +36-34 520 200

India

GRUNDFOS Pumps India Private Limited
Flat A, Ground Floor
61/62 Chamiers Aptmt
Chamiers Road
Chennai 600 028
Phone: +91-44 432 3487
Telefax: +91-44 432 3489

Indonesia

PT GRUNDFOS Pompa
Jl. Rawa Sumur III, Blok III / CC-1
Kawasan Industri, Pulogadung
Jakarta 13930
Phone: +62-21-460 6909
Telefax: +62-21-460 6910/460 6901

Ireland

GRUNDFOS (Ireland) Ltd.
Unit 34, Stillorgan Industrial Park
Blackrock
County Dublin
Phone: +353-1-2954926
Telefax: +353-1-2954739

Italy

GRUNDFOS Pompe Italia S.r.l.
Via Gran Sasso 4
I-20060 Truccazzano (Milano)
Tel.: +39-02-95838112
Telefax: +39-02-95309290/95838461

Japan

GRUNDFOS Pumps K.K.
1-2-3, Shin Miyakoda
Hamamatsu City
Shizuoka pref. 431-21
Phone: +81-53-428 4760
Telefax: +81-53-484 1014

Korea

GRUNDFOS Pumps Korea Ltd.
6th Floor, Aju Building 679-5
Yeoksam-dong, Kangnam-ku, 135-916
Seoul Korea
Phone: +82-2-5317 600
Telefax: +82-2-5633 725

Malaysia

GRUNDFOS Pumps Sdn. Bhd.
7 Jalan Peguam U1/25
Glenmarie Industrial Park
40150 Shah Alam
Selangor
Phone: +60-3-5569 2922
Telefax: +60-3-5569 2866

Mexico

Bombas GRUNDFOS de Mexico S.A. de C.V.
Boulevard TLC No. 15
Parque Industrial Stiva Aeropuerto
Apodaca, N.L. 66600
Mexico
Phone: +52-81-8144 4000
Telefax: +52-81-8144 4010

Netherlands

GRUNDFOS Nederland B.V.
Postbus 104
NL-1380 AC Weesp
Tlf.: +31-294-492 211
Telefax: +31-294-492244/492299

New Zealand

GRUNDFOS Pumps NZ Ltd.
17 Beatrice Tinsley Crescent
North Harbour Industrial Estate
Albany, Auckland
Phone: +64-9-415 3240
Telefax: +64-9-415 3250

Norway

GRUNDFOS Pumper A/S
Strømsveien 344
Postboks 235, Leirdal
N-1011 Oslo
Tlf.: +47-22 90 47 00
Telefax: +47-22 32 21 50

Poland

GRUNDFOS Pompy Sp. z o.o.
ul. Klonowa 23
Baranowo k. Poznania
PL-62-081 Przemierowo
Phone: +48-61-650 13 00
Telefax: +48-61-650 13 50

Portugal

Bombas GRUNDFOS Portugal, S.A.
Rua Calvet de Magalhães, 241
Apartado 1079
P-2770-153 Paço de Arcos
Tel.: +351-21-440 76 00
Telefax: +351-21-440 76 90

Russia

OOO GRUNDFOS
Shkolnaya 39
RUS-109544 Moscow
Phone: +7-095 564 88 00, +7-095 737 3000
Telefax: +7-095 564 88 11, +7-095 737 7536
e-mail: grundfos.moscow@grundfos.com

Singapore

GRUNDFOS (Singapore) Pte. Ltd.
24 Tuas West Road
Jurong Town
Singapore 638381
Phone: +65-6865 1222
Telefax: +65-6861 8402

Spain

Bombas GRUNDFOS España S.A.
Camino de la Fuentecilla, s/n
E-28110 Algete (Madrid)
Tel.: +34-91-848 8800
Telefax: +34-91-628 0465

Sweden

GRUNDFOS AB
Box 63, Angeredsvinkeln 9
S-424 22 Angered
Tel.: +46-771-32 23 00
Telefax: +46-31 331 94 60

Switzerland

GRUNDFOS Pumpen AG
Bruggacherstrasse 10
CH-8117 Fällanden/ZH
Tel.: +41-1-806 8111
Telefax: +41-1-806 8115

Taiwan

GRUNDFOS Pumps (Taiwan) Ltd.
14, Min-Yu Road
Tunglo Industrial Park
Tunglo, Miao-Li County
Taiwan, R.O.C.
Phone: +886-37-98 05 57
Telefax: +886-37-98 05 70

Thailand

GRUNDFOS (Thailand) Ltd.
947/168 Moo 12, Bangna-Trad Rd., K.M. 3,
Bangna, Phrakong
Bangkok 10260
Phone: +66-2-744 1785 ... 91
Telefax: +66-2-744 1775 ... 6

Turkey

GRUNDFOS POMPA SAN. ve TIC. LTD. STI
Bulgurlu Caddesi no. 32
TR-81190 Üsküdar Istanbul
Phone: +90 - 216-4280 306
Telefax: +90 - 216-3279 988

United Arab Emirates

GRUNDFOS Gulf Distribution
P.O. Box 16768
Jebel Ali Free Zone
Dubai
Phone: +971-4- 8815 166
Telefax: +971-4-8815 136

United Kingdom

GRUNDFOS Pumps Ltd.
Grovebury Road
Leighton Buzzard/Beds. LU7 8TL
Phone: +44-1525-850000
Telefax: +44-1525-850011

U.S.A.

GRUNDFOS Pumps Corporation
17100 West 118th Terrace
Olathe, Kansas 66061
Phone: +1-913-227-3400
Telefax: +1-913-227-3500