

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.

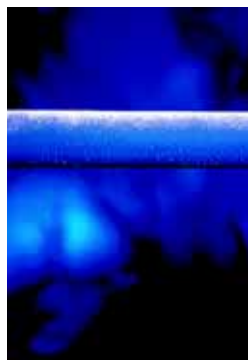
Pumps for all purposes

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.



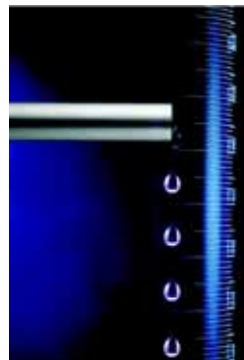
Wastewater

Drainage, effluent and sewage pumps, for a wide range of applications in building services, the industry as well as transfer of raw sewage in municipal sewage systems and treatment plants.



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

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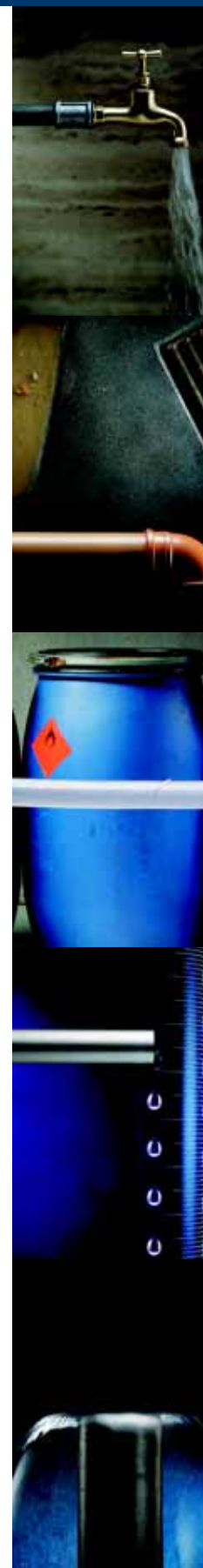
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Renewable-energy systems

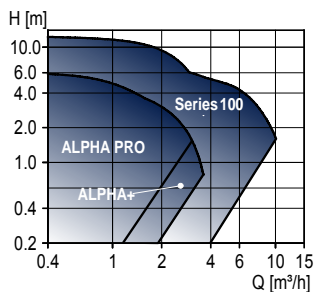
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GRUNDFOS ALPHA Pro, GRUNDFOS ALPHA+, UPS, UP Series 100

Circulator pumps, canned-rotor type



Technical data

Flow, Q: max. 10 m³/h
 Head, H: max. 12 m
 Liquid temp.: -25°C to +110°C
 Operat. pressure: 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

- Low-energy
Energy labelling up to class A
- Maintenance-free
- Low-noise
- Wide range.

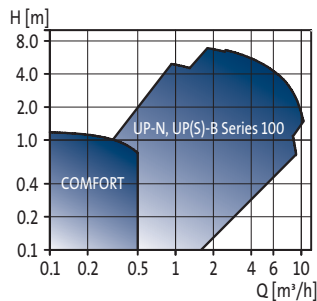
Options

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



GRUNDFOS COMFORT UP-N, UP(S)-B Series 100

Circulator pumps, canned-rotor type



Technical data

Flow, Q: max. 10.5 m³/h
 Head, H: max. 7 m
 Liquid temp.: -25°C to +110°C
 Operat. pressure: 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.

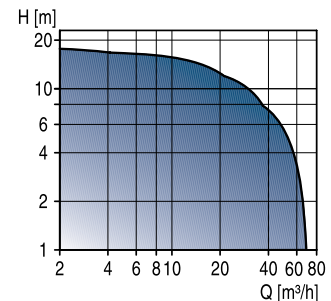
Options

- 24-hour timer
- Adjustable thermostat.



UPS Series 200

Circulator pumps, canned-rotor type



Technical data

Flow, Q: max. 70 m³/h
 Head, H: max. 18 m
 Liquid temp.: -10°C to +120°C
 Operat. pressure: 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
Energy labelling up to class B
- Single-phase with built-in protection module
- Wide range.

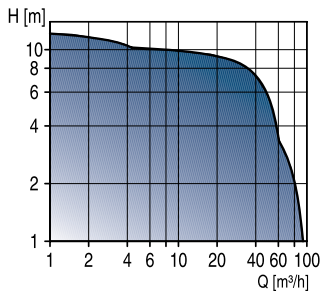
Options

- Protection module
- Relay module with fault signal or operating output
- Bronze pump housing
- Twin-head versions
- Communication via GENibus or LON.



GRUNDFOS MAGNA, 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. pressure: 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.

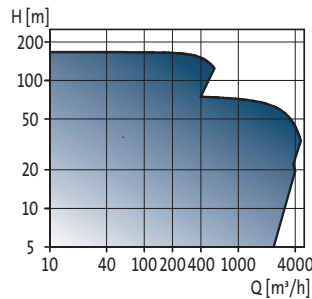
Options

- 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. pressure: 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.

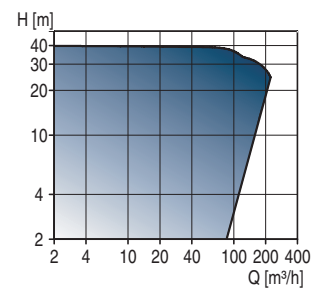
Options

- Bronze pump housing
- Twin-head versions.



TPE Series 2000

Single-stage, centrifugal pumps - electronically controlled



Technical data

Flow, Q: max. 370 m³/h
 Head, H: max. 90 m
 Liquid temp.: -25°C to +140°C
 Operat. pressure: 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

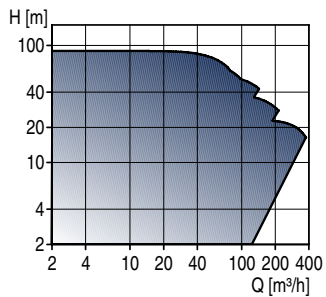
Options

- Parallel operation
- Wireless remote control, R100
- Communication via GENIbus or LON
- Twin-head versions.



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 +140°C
 Operat. pressure: 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.

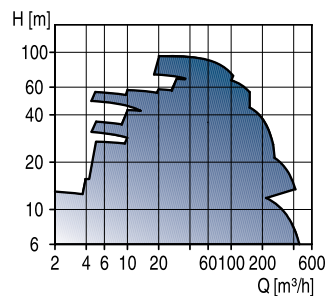
Options

- External communication.



NB, NBG

Single-stage standard pumps



Technical data

Flow, Q: max. 460 m³/h
 Head, H: max. 95 m
 Liquid temp.: -25°C to +140°C
 Operat. pressure: 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.

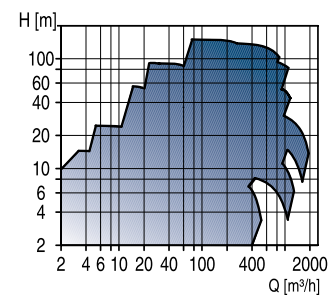
Optional

- 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 m³/h
 Head, H: max. 150 m
 Liquid temp.: -25°C to +140°C
 Operat. pressure: 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.

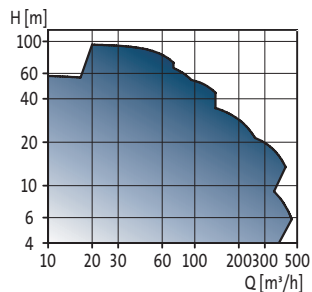
Optional

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



NBE

Single-stage standard pumps - electronically controlled



Technical data

Flow, Q: max. 460 m³/h
 Head, H: max. 95 m
 Liquid temp.: -25°C to +140°C
 Operat. pressure: 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.

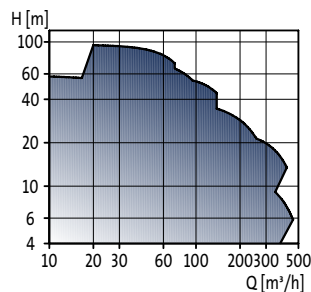
Optional

- 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. 475 m³/h
 Head, H: max. 95 m
 Liquid temp.: -25°C to + 140°C
 Operat. pressure: 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.

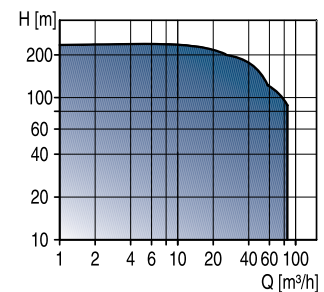
Options

- Wireless remote control, R100.



SPK, 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. pressure: 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
- Temperature control
- Boiler feed.

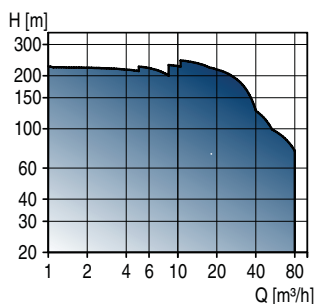
Features and benefits

- Flexible installation length
- Wide range
- Reliability
- Service-friendly
- Simple installation
- Space-saving
- High efficiency.



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
 Operat. pressure: max. 25 bar

Applications

- The pumps are suitable for
- Boiler feeding systems
 - Pumping of cooling lubricants
 - Water treatment systems
 - Temperature control
 - Industrial washing machines.

Features and benefits

- Wide range
- Reliability
- Wireless remote control, R100
- High-efficiency
- Space saving
- Service friendly
- Many control facilities.

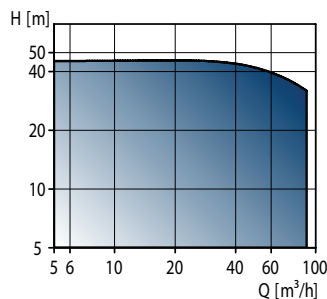
Options

- Wireless remote control, R100.



MTB

Single-stage inline pump with semi-open impeller



Technical data

Flow, Q: max. 90 m³/h
 Head, H: max. 47 m
 Liquid temp.: -10°C to +90°C
 Operat. pressure: max. 16 bar

Applications

The MTB is specially designed for machine tool and washing/cleaning applications such as:

- Machine centres
- Coolant systems
- Filtration plants
- Grinding machines
- Part cleaning systems
- Other industrial applications, where semi-open impellers are needed.

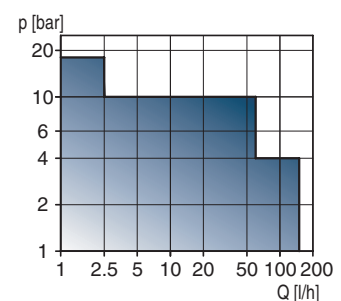
Features and benefits

- Standard dimension according to EN and ISO standards
- Compact design
- Semi-open impeller / effective solid handling
- Standard EFF1 motor.



DME, DMS

Compact diaphragm dosing pumps



Technical data

Capacity, Q: max. 150 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.

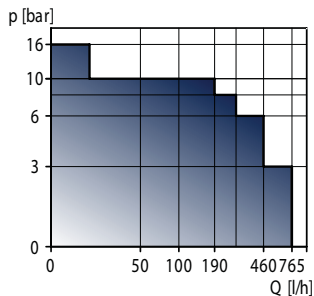
Features and benefits

- Precise capacity setting in ml or l
- Full diaphragm control
- Stroke speed or stroke 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.



DMX

Motor-driven diaphragm dosing pumps



Technical data

Capacity, Q: max. 765 l/h
(Pump with two heads:
2x765 l/h)
Pressure, p: max. 16 bar
Liquid temp.: max. +750°C

Applications

- Drinking water treatment
- Wastewater treatment (settlement/
sludge treatment)
- Pulp/paper and textile industries.

Features and benefits

- Robust design
- Stroke length adjustment.

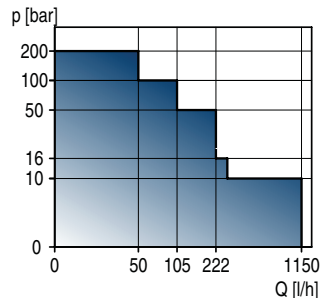
Options

- Pulse control
- Analog control
- Level input from storage tank.



DMH

Oscillating positive displacement pumps
with hydraulic diaphragm control



Technical data

Capacity, Q: max. 1150 l/h
(Pump with two heads:
2x1150 l/h)
Pressure, p: max. 200 bar
Liquid temp.: max. +100°C

Applications

- Oil refinery industry
- Heavy duty applications
- Drinking water treatment
- Wastewater treatment (settlement/
sludge treatment)
- Pulp/paper and textile industries.

Features and benefits

- Designed for heavy duty operation
- Stroke length adjustment

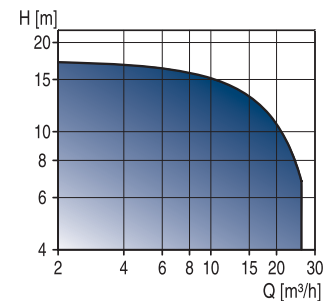
Options

- Pulse control
- Analog control
- Level input from storage tank
- Available with API 675 approval
- Available with ATEX approval.



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.

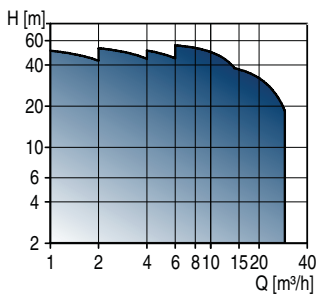
Options

- Integrated heating unit
- Level sensor
- Control panels.



CHI, CHIU

Multistage centrifugal pumps



Technical data

Flow, Q:	max. 29 m ³ /h
Head, H:	max. 58 m
Liquid temp.:	
CHI2 to CHI12:	-20°C to +110°C
CHI15 and CHI20:	-20°C to +70°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).

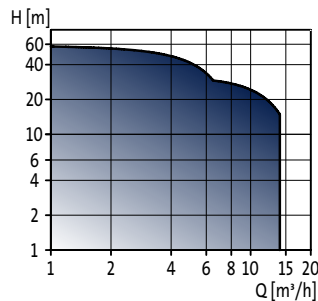
Features and benefits

- 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 m ³ /h
Head, H:	max. 58 m
Liquid temp.:	-20°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.

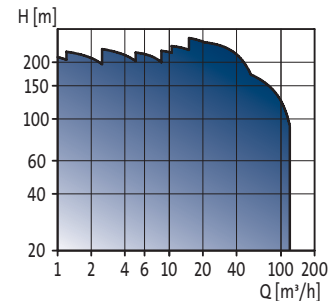
Options

- Wireless remote control, R100.



CR, CRI, CRN

Multistage centrifugal pumps



Technical data

Flow, Q:	max. 120 m ³ /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.

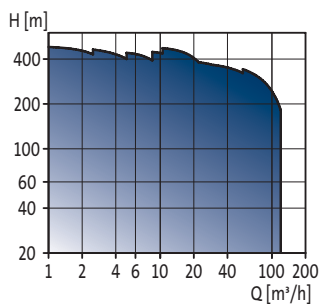
Options

- 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.

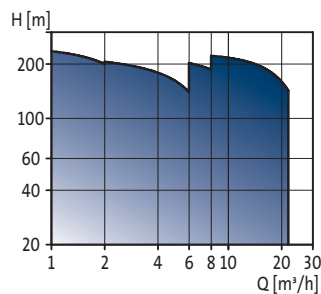
Options

- 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

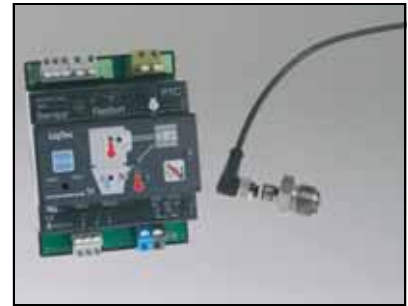
- Process water systems
- Washing in cleaning systems
- Sea water systems
- Pumping of acids and alkalis
- Ultra filtration systems
- Reverse osmosis systems
- Swimming baths.

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.

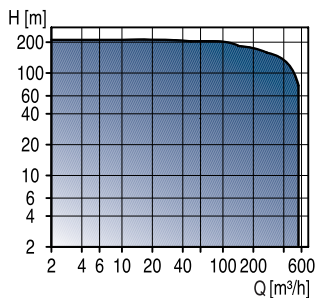
Features and benefits

- 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.

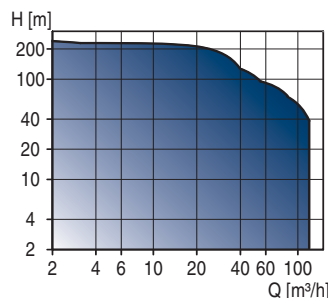
Features and benefits

- 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. pressure: 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.

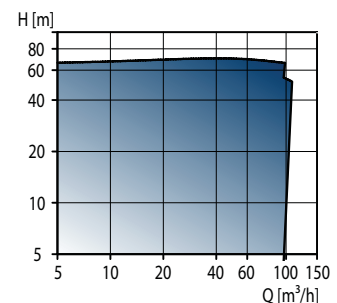
Options

- Wireless remote control, R100.



Euro-HYGIA®

Single-stage, end-suction sanitary pumps



Technical data

Flow, Q: max. 108 m³/h
 Head, H: max. 70 m
 Operat. temp.: +95°C
 (+150°C on request)
 Operat. pressure: max. 16 bar

Applications

- Liquid transfer in breweries and dairies
- Pure water systems (WFI)
- Process pumping in pharmaceutical/cosmetic industry
- CIP (Cleaning-In-Place) systems
- Bio fuel application.

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 liquid handling.

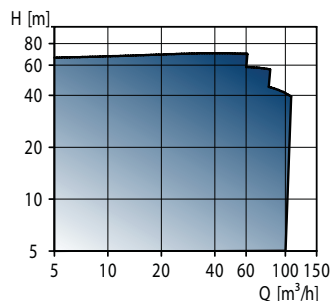
Options

- Electronically speed controlled versions
- ATEX-certified pumps
- Wide range of impeller designs
- Three surface standars.



F&B-HYGIA®

Single-stage, end-suction sanitary pumps



Technical data

Flow, Q: max. 105 m³/h
 Head, H: max. 70 m
 Operat. temp.: +95°C
 (+150°C on request)
 Operat. pressure: max. 16 bar

Applications

- Liquid transfer in breweries and dairies
- Soft-drink mixing
- 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.

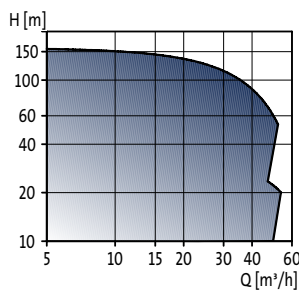
Options

- Large selection of supports for motor and pump
- 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. 55 m³/h
 Head, H: max. 160 m
 Operat. temp.: +95°C
 (+150°C on request)
 Operat. pressure: 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
- Bio fuel application.

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).

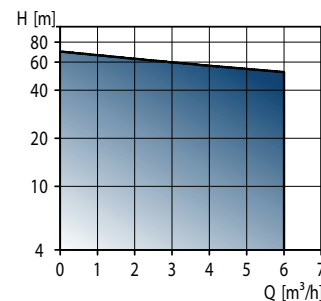
Options

- Electronically speed-controlled versions
- ATEX-certified pumps
- Fully drainable versions.



durietta

Single- or multistage, end-suction sanitary pumps



Technical data

Flow, Q: max. 6 m³/h
 Head, H: max. 70 m
 Operat. temp.: +90°C
 Operat. pressure: max. 8 bar

Applications

- Pumping of liquids in micro breweries and dairies
- Bottling systems
- Purification systems
- Drinking water systems
- Industrial applications.

Features and benefits

- Unique hygienic design to 3A standards.
- CIP capable (DIN EN 12462)
- Materials: AISI 316 (DIN EN 1.4404/1.4571)
- Compact design.

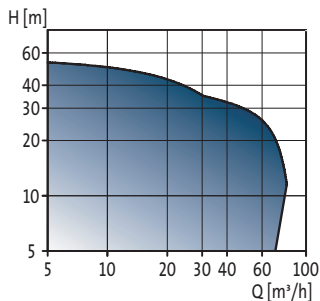
Options

- Electronically speed-controlled versions
- Wide range of pipe connections
- Vertical version
- Various shaft seals.



SIPLA

Single-stage, self-priming side-channel sanitary pumps



Technical data

Flow, Q: max. 90 m³/h
 Head, H: max. 56 m
 Operat. temp.: +95°C
 (+140°C on request)
 Operat. pressure: max. 10 bar

Applications

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

Features and benefits

- Meets the 3A sanitary standard
- High air-content handling
- Efficient priming
- Robust, service friendly.

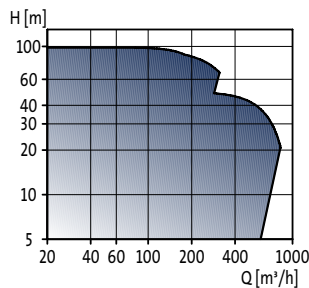
Options

- Electronically speed controlled versions
- ATEX-certified pumps
- Various shaft seals
- Various connections.



MAXA and MAXANA

End-suction process pumps



Technical data

Flow, Q: up to max. 820 m³/h
 Head, H: up to max. 97 m
 Operat. temp.: +95°C
 (+150°C on request)
 Operat. pressure: 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
- Bio fuel application.

Features and benefits

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

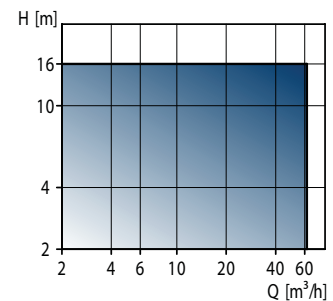
Options

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



NOVALobe

Rotary lobe pump with positive displacement



Technical data

Displacement: 0.03 to 1.29 l/rev.
 Max. diff. pressure: 16 bar
 Viscosity: max. 1,000,00 cP
 Operat. temp.: +150°C
 (+300°C on request)
 Operat. pressure: up to 40 bar

Applications

- Pumping of high-viscosity products, eg yoghurt, mayonnaise and shampoo
- Pumping of products requiring gentle handling, eg cheese curd, yeast and vaccine/fermentation broth
- Filling and bottling applications.

Features and benefits

- Unique hygienic design (QHD and 3A)
- Robust construction
- Service-friendly
- CIP and SIP capable (DIN EN 12462)
- Materials: AISI 316 (DIN EN 1.4404/1.4435).

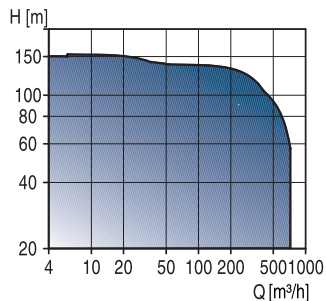
Options

- Integrated pressure-relief valve
- Wide range of shaft seals (elastomer)
- Thermal jackets
- Aseptic front cover.



Hydro MPC/2000/1000, Hydro Solo, Hydro Multi-E

Complete pressure boosting systems



Technical data

Flow, Q:	max. 720 m ³ /h
Head, H:	max. 160 m
Liquid temp.:	0°C to +70°C
Operat. pressure:	max. 16 bar

Applications

Hydro MPC/2000/1000 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 m ³ /h
Head, H:	max. 1630 m
Liquid temp.:	3°C to +50°C
Operat. pressure:	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 sea-water.

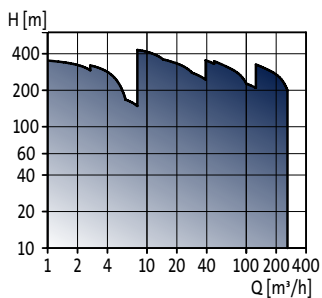
Features and benefits

- 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 m³/h
 Head, H: max. 430 m
 Liquid temp.: 0°C to +40°C
 Operat. pressure: max. 80 bar

Applications

The booster modules are suitable for pressure boosting in

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

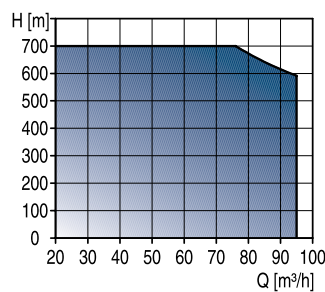
Features and benefits

- 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 m³/h
 Head, H: max. 700 m
 Liquid temp.: 0°C to +40°C
 Operat. pressure: max. 70 bar

Applications

The booster systems are suitable for pressure boosting in

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

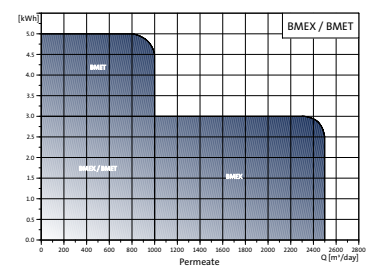
Features and benefits

- 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 m³
 Head, H: max. 810 m
 Ambient temp.: +40°C
 Operat. pressure: max. 80 bar

Applications

- Desalination of brackish water and sea-water.

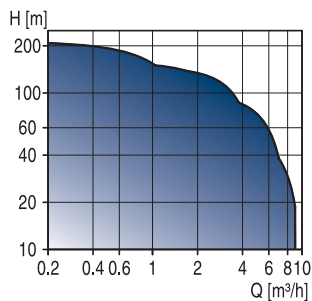
Features and benefits

- 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.

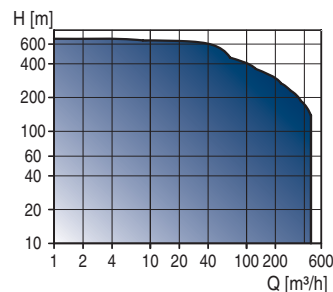
Options

- 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

- Overtemperature protection 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.

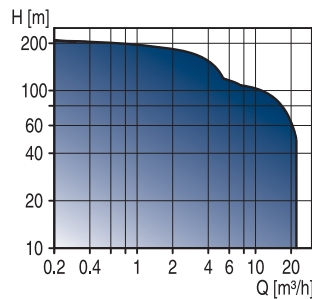
Options

- 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.

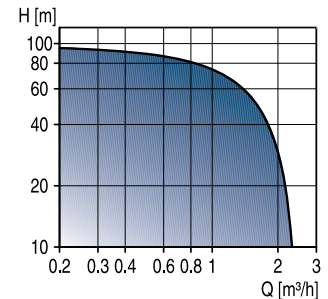
Features and benefits

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



MP 1

Environmental pumps



Technical data

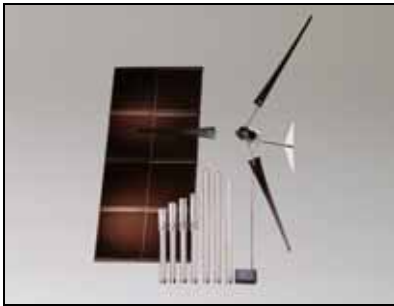
Flow, Q:	max. 2.4 m ³ /h
Head, H:	max. 95 m
Liquid temp.:	0°C to +35°C

Applications

- The pumps are suitable for
- Sampling.

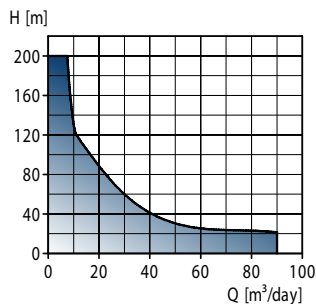
Features and benefits

- 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. 200 m
 Liquid temp.: 0°C to +40°C
 Voltage supply: 30-300 VDC or
 1 x 90-240 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.

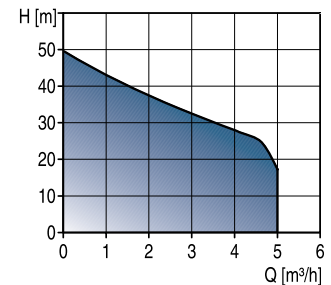
Options

- 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. pressure: max. 6 bar

Applications

The pumps are suitable for liquid transfer in

- Households
- Gardens
- Hobby activities
- Agriculture
- Horticulture
- Small industries.

Features and benefits

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

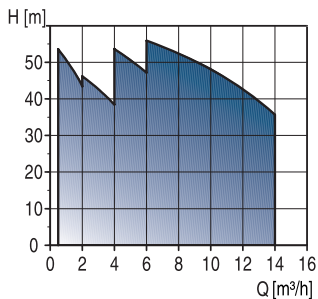
Options

- Automatic start/stop when equipped with Presscontrol
- Booster sets for small-scale water supply.



CH, CHN

Multistage centrifugal pumps



Technical data

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

Applications

The pumps are suitable for liquid transfer in

- Pressure boosting systems
- Domestic water supply systems
- Cooling systems
- Air-conditioning systems
- Horticultural irrigation systems
- Small industrial water supply systems.

Features and benefits

- Compact design
- Robust design
- Full stainless steel design (CHN only)
- Low-noise.

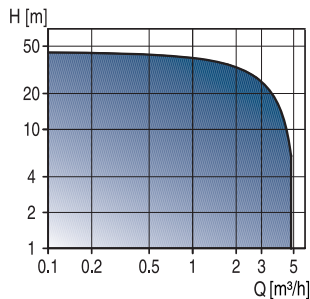
Options

- Booster sets for domestic water supply
- Automatic start/stop when equipped with Presscontrol.



MQ

Multistage centrifugal self-priming pumps



Technical data

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

Applications

The pumps are suitable for liquid transfer in

- Single- or two-family houses
- Weekend cottages
- Farms
- Greenhouses.

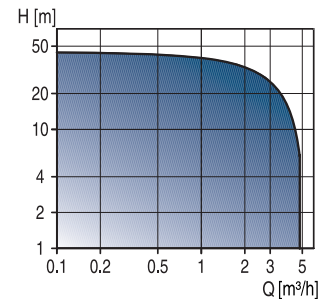
Features and benefits

- 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 m³/h
 Head, H: max. 48 m
 Liquid temp.: 0°C to +35°C
 Operat. pressure: max. 7.5 bar

Applications

The rainwater unit is suitable for the transfer of water from water collection and utilization 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.

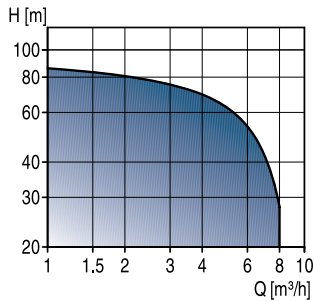
Options

- 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. pressure: 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.

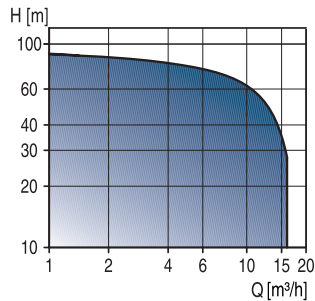
Features and benefits

- Compact design
- Robust design
- Low-noise
- Space-saving.



CHV booster

Vertical pressure boosting systems



Technical data

Flow, Q: max. 16 m³/h
 Head, H: max. 93 m
 Liquid temp.: 0°C to +40°C
 Operat. pressure: 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. pressure: 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.

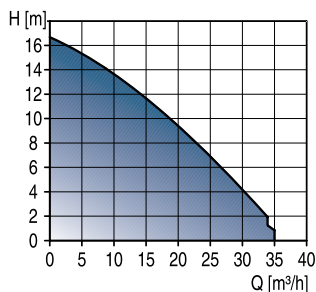
Features and benefits

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



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

Submersible drainage and effluent pumps



Technical data

Flow, Q: max. 35 m³/h
 Head, H: max. 18 m
 Liquid temp.: 0°C to +55°C
 Particle size: ø10-50 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.

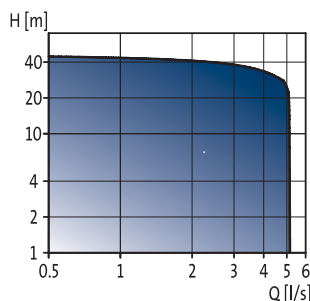
Options

- Unilift CC is suitable for low suction
- Unilift AP35/50 and AP35B/50B has vortex impeller
- Unilift AP35B and AP50B has auto-coupling and horizontal outlet.



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 with toilet waste 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/m³
 Max. installation depth: 20 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.

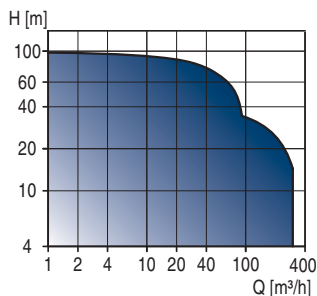
Features and benefits

- Wide range of flexible installation accessories
- 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.

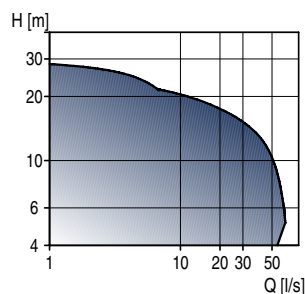
Features and benefits

- 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+

Domestic 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 wash basin or in a closet.



Liftaway B and C

Domestic lifting stations

Technical data for Liftaway B

Inlet dimension: 3 x DN 100
 Discharge connection: DN 40
 Effective volume: 40 l

Technical data for Liftaway C

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

Applications

Liftaway B and C can be used:

- as draining well for the collection of drainage and surface water
- for the collection and pumping of wastewater from basement and laundry rooms below sewer level
- for the collection and pumping of wastewater from wash basins, washing machines, showers and floor drains to sewer level
- for the collection and pumping of rain water.

Features and benefits

- To be fitted with pumps from the Unilift KP and AP range.

Liftaway B

- Telescopic part for easy height adjustment
- Flexible and easy installation.

Liftaway C

- Functional design and easy to clean
- Overflow protection device
- Active carbon filter to eliminate odours
- Compact and slim for easy installation under a wash basin or in a closet.



Conlift

Pump for condensate water

Technical data

Flow: max. 630 l/h
 Head H: max. 5.3 m
 Liquid temp.: max. 35°C short periods 80°C
 min 2.7
 pH:
 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.

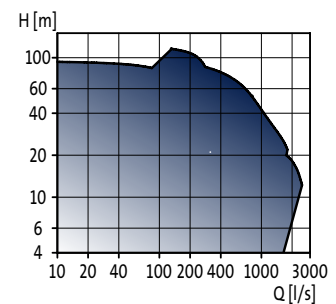
Features and benefits

- Built-in on/off control via two pressure switch ensures high security
- Built-in alarm and potentialfree contact
- Angular mounting brackets to counteract buoyancy
- LGA approval
- Modern design
- Easy to clean.



S pumps

Supervortex pumps, single- or multi-channel 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 800
 Particle size: max. ø145 mm

Applications

The pumps are suitable for the following applications

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

Features and benefits

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

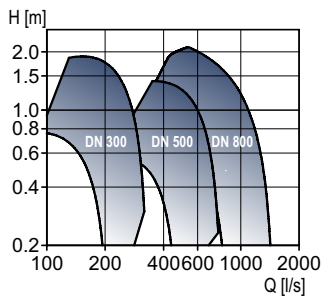
Options

- Control and protection systems
- External cooling water
- External seal flush system
- Sensors for monitoring of pump conditions.



SRP pumps

Submersible re-circulation pumps



Technical data

Flow, Q: max. 1430 l/s
(5130 m³/h)
Head, H: max. 2.1 m
Liquid temp.: 5°C to +40°C
Discharge pipe diameter: DN 300, DN 500 and DN 800

Applications

The pumps are suitable for the following applications

- Re-circulation of sludge within sewage treatment plants
- Storm water pumping.

Features and benefits

- High efficiency stainless steel impeller
- Totally submerged installations
- Built-in motor protection.

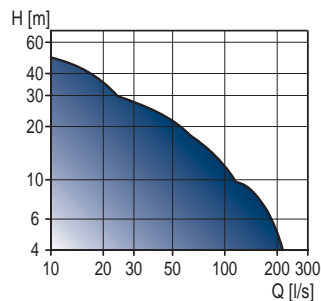
Options

- 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.

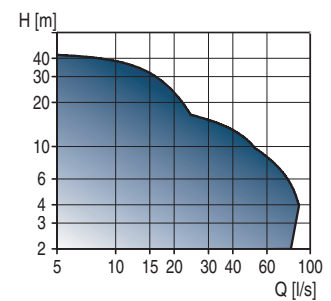
Options

- Control and protection systems
- External cooling water
- External seal flush system
- Sensors for monitoring of pump conditions.



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.

Features and benefits

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

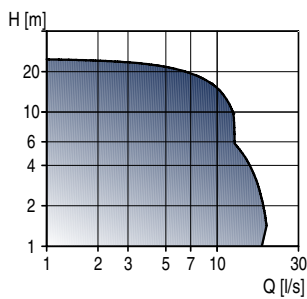
Options

- Control and protection systems
- Motor operation control
- Sensors for monitoring pump conditions.



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.

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