



- ▶ One range of quality pumps is all you need

MOVING LIQUIDS . . .

No matter what volume, pressure, lift or liquid to be pumped, Grundfos can supply precisely the pump needed for the task in hand.

Worldwide many installers are already familiar with the Grundfos range of household pumps. From the trusted CH Pressure Systems to the stainless KP wastewater pump, millions of customers can testify to the simplicity of installation and reliability of our household pump series.

This catalogue covers the full range of household pumps and introduces pumps and pumping systems for more demanding or specialised jobs.

WATER SUPPLY

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SELF-PRIMING

Ideal for one or multiple tap outlets to your garden, toilet and laundry, the Grundfos JPRain range offers a reliable solution to help you utilise your collected rainwater in the best possible way.

PRESSURE SYSTEMS

This range of Grundfos pumps and tanks are designed for any pumping application involving clean and non-aggressive water in household, small scale irrigation and booster applications.

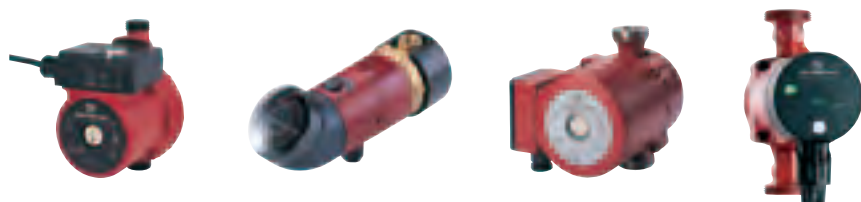
SUBMERSIBLE

Grundfos submersible pumps are easy to handle and suitable for a variety of applications such as domestic water supply and irrigation.



WASTEWATER AND DRAINAGE

Grundfos wastewater and drainage pumps are designed to make pumping from household applications as simple and efficient as possible.



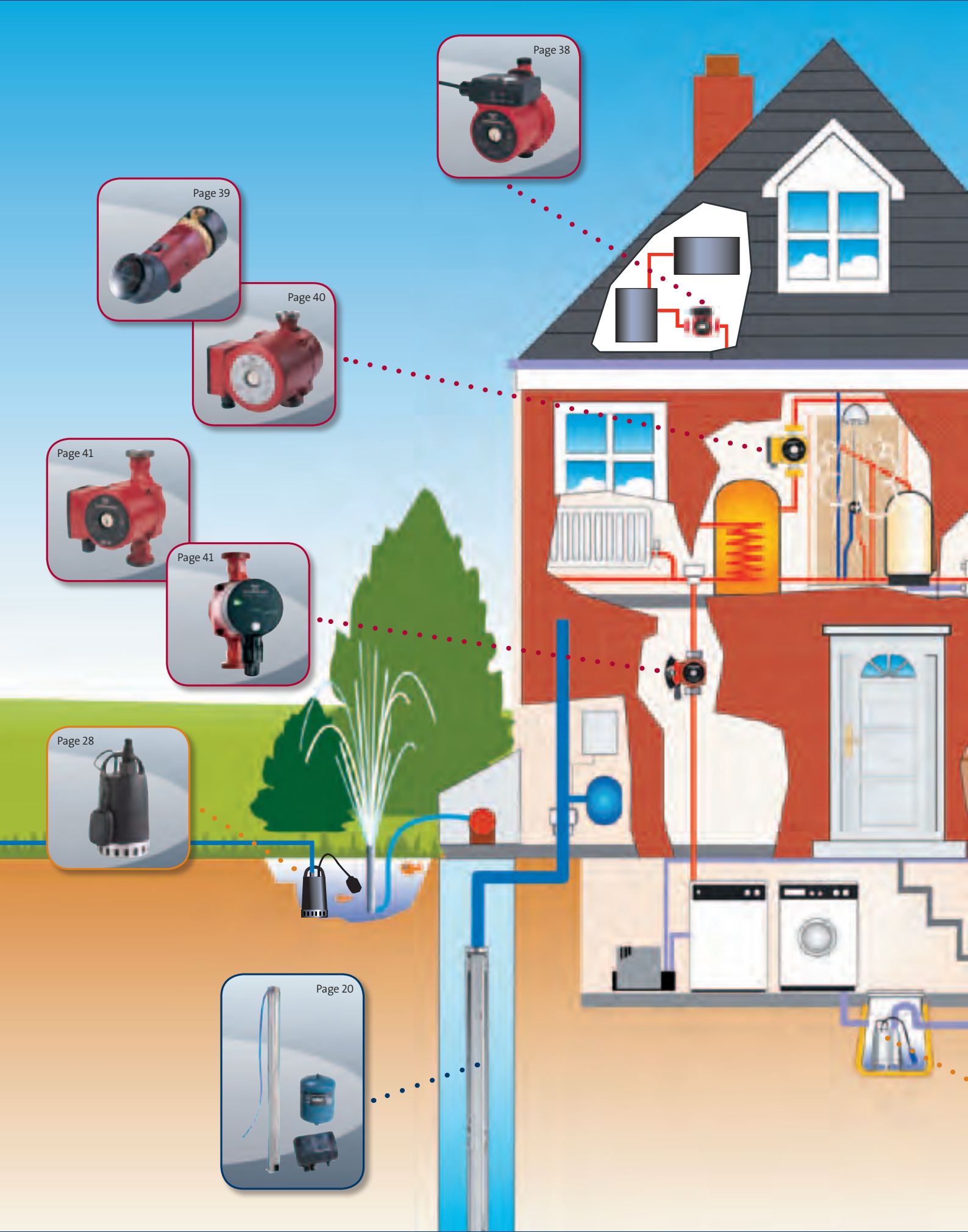
HOT WATER AND HEATING

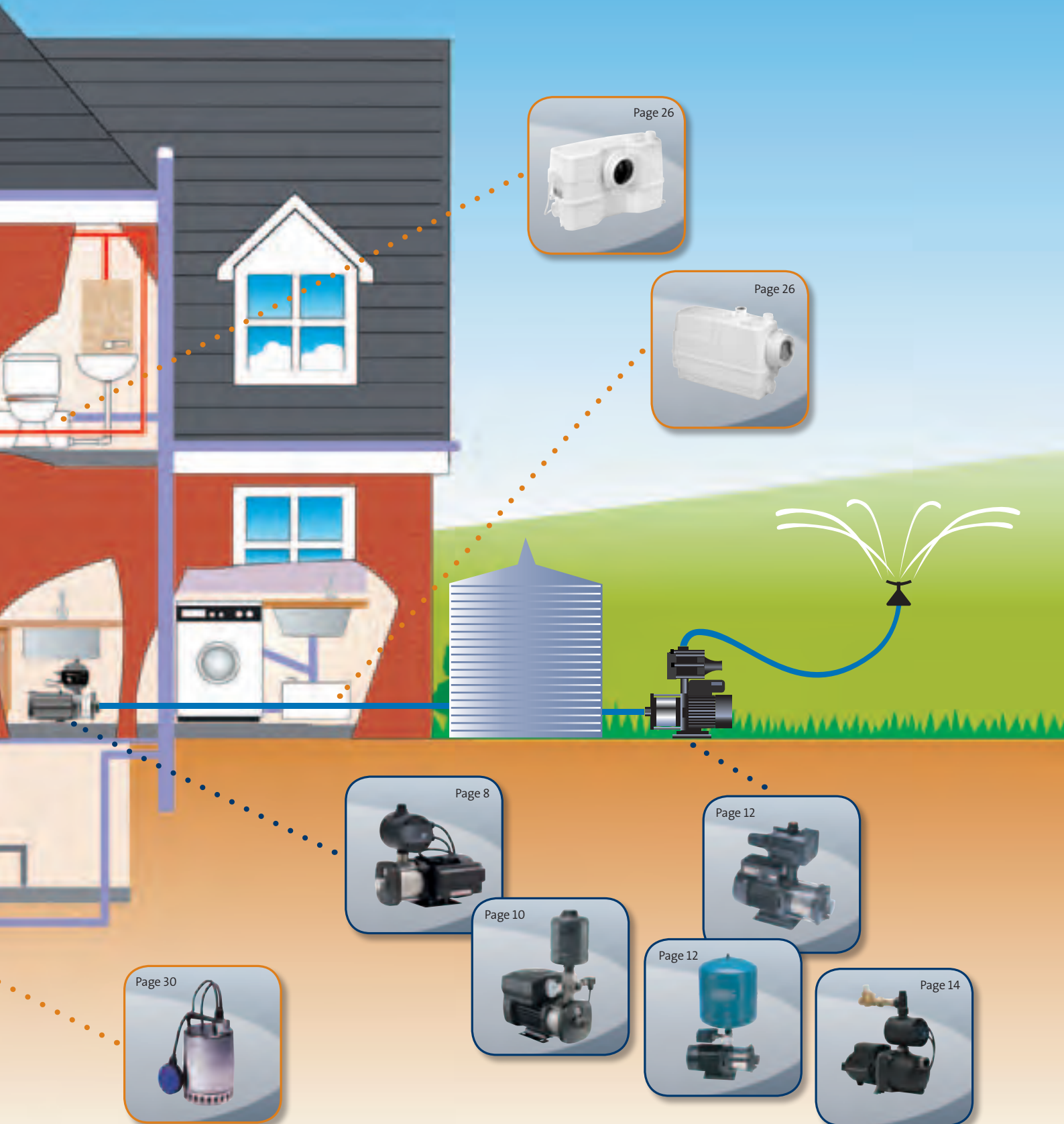
The Grundfos range of circulators for heating and hot water re-circulation are available in a variety of materials and finishes to cover even the most exceptional tasks.



HOUSEHOLD B-LINE

A range of quality pumps for home and garden.







The background of the advertisement is a high-speed photograph of water splashing, creating a sense of movement and freshness. In the lower-left foreground, a copper pipe enters the frame diagonally. Attached to the pipe is a rectangular label with a blue border. The label features a white house icon with a black outline, and below it, the words 'HOME' and 'PERFORMANCE' are printed in bold, blue, sans-serif capital letters. The overall color palette is dominated by various shades of blue, from light sky blue to deep navy blue, with the metallic copper of the pipe providing a contrasting element.

WATER SUPPLY

Making water work

Grundfos has water supply pumps for a wide range of domestic applications such as raw water supply, pressure boosting, irrigation and dewatering. Each product ensures constant supply of fresh water to your home and garden, while offering different features and benefits in relation to performance, comfort and convenience.

APPLICATIONS

The Grundfos CM Booster is a horizontal multistage centrifugal pump designed for domestic and light industrial applications. It is suitable for pressure boosting from above ground rainwater tanks or from mains water.

FEATURES



- Quiet operation
- Compact design
- Robust construction
- Dry run protection
- Easy installation
- Adjustable cut in pressure (PM2)
- Generator friendly

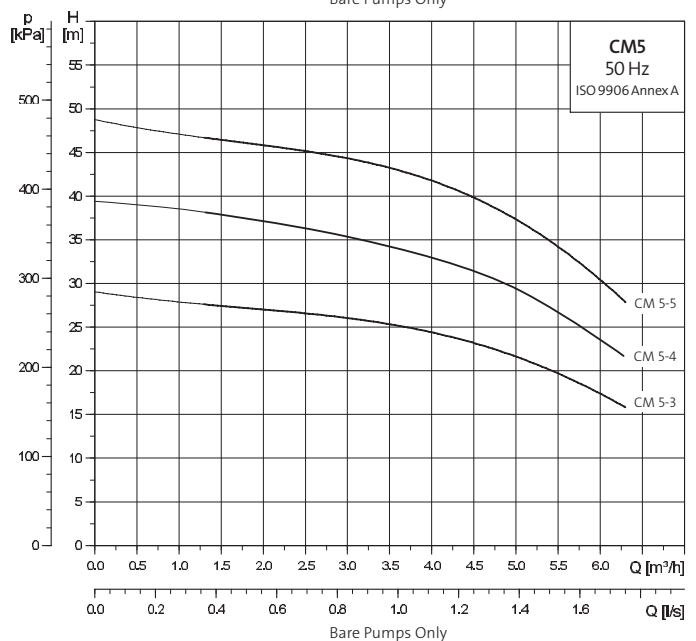
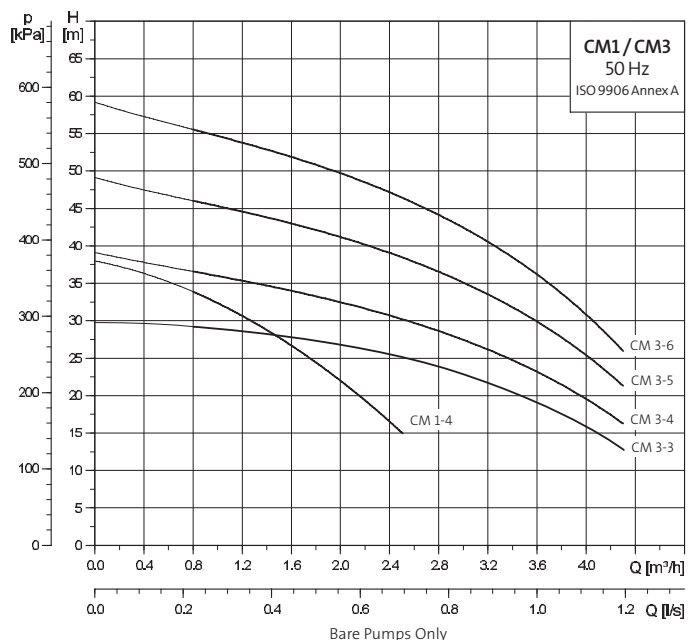
CONSTRUCTION

- All wetted parts stainless steel
- Hard wearing carbon / ceramic seal
- IP 55 Motor
- Complies with AS/NZS 4020 - testing for products for use with drinking water

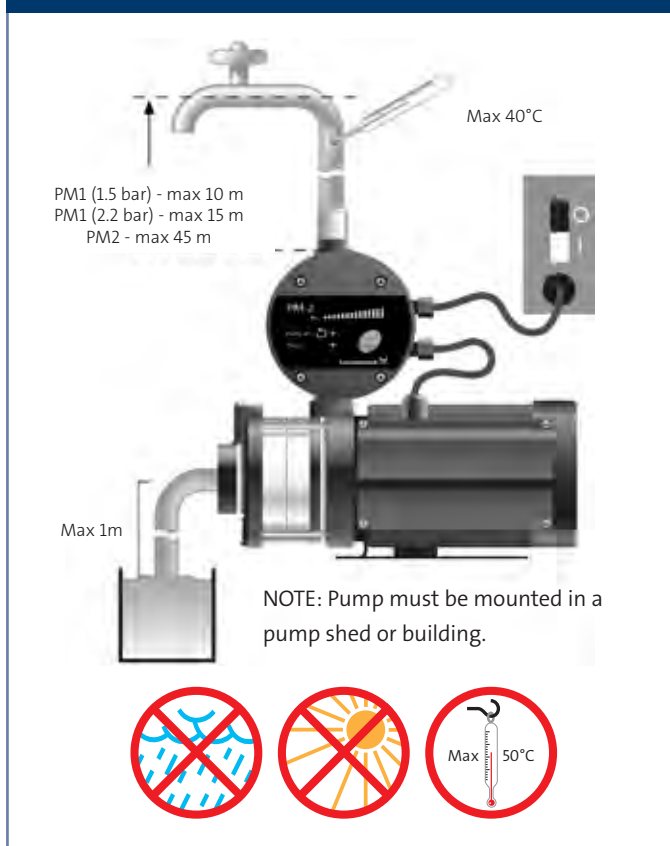
PERFORMANCE

| Pumps | Discharge Pressure (kPa/psi) | | | | | | |
|----------------|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 150 22 | 200 29 | 250 36 | 300 44 | 350 51 | 400 58 | 450 65 |
| Output (l/min) | | | | | | | |
| CMB 1-4 | 40 | 33 | 26 | 18 | - | - | - |
| CMB 3-3 | 65 | 50 | 26 | - | - | - | - |
| CMB 3-4 | - | 63 | 53 | 38 | 20 | - | - |
| CMB 3-5 | - | 69 | 61 | 52 | 41 | 26 | - |
| CMB 3-6 | - | - | 68 | 63 | 55 | 47 | 36 |
| CMB 5-3 | 99 | 79 | 44 | - | - | - | - |
| CMB 5-4 | - | 100 | 85 | 67 | 30 | - | - |
| CMB 5-5 | - | - | 102 | 92 | 80 | 62 | 24 |

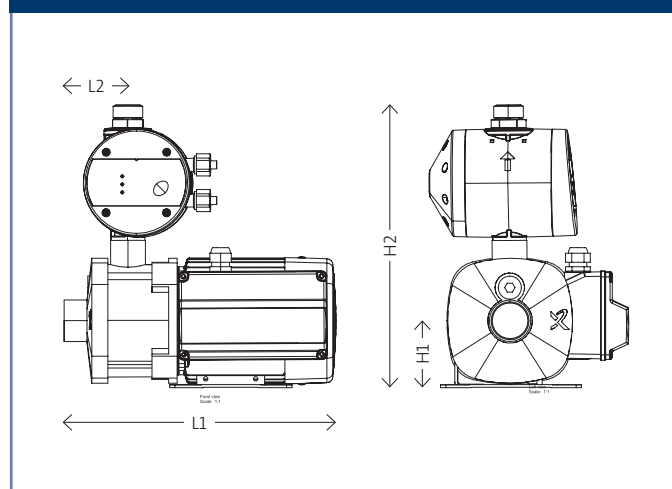
As a guide 1 tap  = 10 litres per minute • 1 sprinkler  = 15 litres per minute



INSTALLATION



DIMENSIONS



PRESSURE MANAGER COMPARISON

| Model | PM 1 | PM 2 |
|--|------|------|
| Power on indication | • | • |
| Pump running indication | • | • |
| Alarm indication | • | • |
| Dry-running protection | • | • |
| Free position in installation | • | • |
| Suitable for generator supply | • | • |
| Rotary outlet connection | • | • |
| Integrated non-return valve | • | • |
| Cycling alarm | • | • |
| Integrated pressure sensor from Grundfos Direct Sensors™ | | • |
| Adjustable start pressure | | • |
| Start / stop with 1 bar differential pressure | | • |
| Auto restart after dry running | | • |
| Max. run time 30 min. (safety) | | • |
| Pressure indication | | • |
| Internal pressure tank | | • |

SELECTION

| Current CH-PC Model | Suitable Replacement CM Booster** |
|---------------------|-----------------------------------|
| CH2-30 PC | CMB 1-4 |
| CH2-40 PC | CMB 3-3 |
| CH2-50 PC | CMB 3-4 |
| CH2-60 PC | CMB 3-5 |
| CH2-60 PC | CMB 3-6 |
| CH4-40 PC | CMB 5-3 |
| CH4-50 PC | CMB 5-4 |
| CH4-60 PC | CMB 5-5 |

**calculated at 3 bar

TECHNICAL FEATURES

| | | | | | | Dimensions (mm) | | | | | | | |
|---------|---------|-----------|------------|----------------------------|-----------------------------|-----------------|-----------------------------|-----|----|------------------------|---------|-------------|---------------|
| Model | P2 (kW) | 1phIn (A) | Water Temp | Connection Size Inlet (A2) | Connection Size Outlet (A1) | L1 | L2 (centre of PM to outlet) | H2 | H1 | B2 (bolt hole centres) | Control | Weight (kg) | CH Equivalent |
| CMB 1-4 | 0.5 | 3.1 | 0/40°C | 1"F | 1"M | 323 | 89.5 | 317 | 75 | 125 | PM1 | 13.8 | CH2-30PC |
| CMB 3-3 | 0.5 | 3.1 | 0/40°C | 1"F | 1"M | 5.5 | 71.5 | 317 | 75 | 125 | PM2 | 13.6 | CH2-40PC |
| CMB 3-4 | 0.5 | 3.1 | 0/40°C | 1"F | 1"M | 323 | 89.5 | 317 | 75 | 125 | PM2 | 14.0 | CH2-50PC |
| CMB 3-5 | 0.5 | 3.1 | 0/40°C | 1"F | 1"M | 341 | 107.5 | 317 | 75 | 125 | PM2 | 14.4 | CH2-60PC |
| CMB 3-6 | 0.67 | 4.4 | 0/40°C | 1"F | 1"M | 417 | 143.5 | 317 | 75 | 125 | PM2 | 16.34 | CH2-60PC |
| CMB 5-3 | 0.5 | 3.1 | 0/40°C | 1½"F | 1"M | 305 | 71.5 | 317 | 75 | 125 | PM2 | 13.6 | CH4-40PC |
| CMB 5-4 | 0.67 | 4.4 | 0/40°C | 1½"F | 1"M | 363 | 89.5 | 317 | 75 | 125 | PM2 | 15.3 | CH4-50PC |
| CMB 5-5 | 0.9 | 5.4 | 0/40°C | 1½"F | 1"M | 381 | 107.5 | 317 | 75 | 125 | PM2 | 16.8 | CH4-60PC |

APPLICATIONS

The Grundfos CME is a compact booster pump for water supply and boosting in domestic and light commercial applications. The integrated speed controller enables the CME to keep constant pressure in the pipe system.

FEATURES

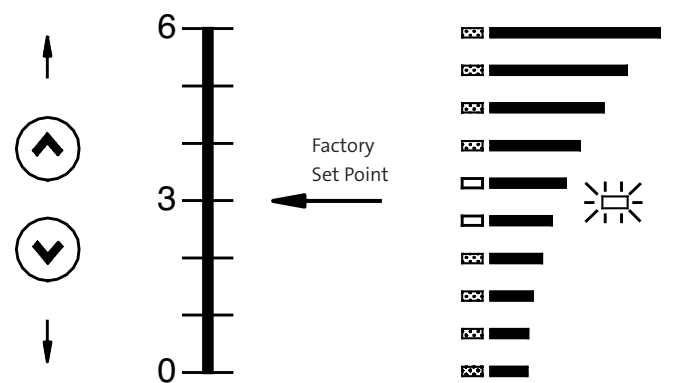
- Constant pressure via integrated speed control
- Dry run protection with auto-restart
- Easy installation & operation
- Quiet operation (55 dBA)
- Stainless steel construction for long life
- Built-in thermal protection (1 x 240 V)
- Inbuilt non-return valve

CONSTRUCTION

- Stainless steel shaft, impellers and pump housing
- Composite terminal box and fan cover
- All wet components are 304 Stainless Steel

CONTROL PANEL

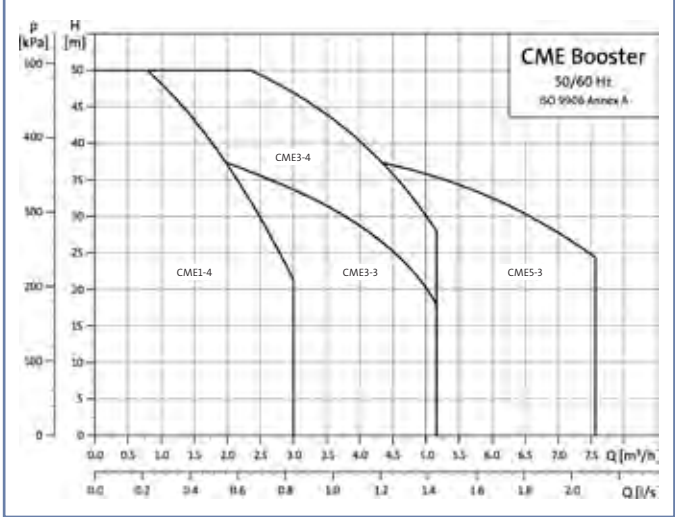
The CME pump can be operated manually by means of the control panel.



Set the desired setpoint by pressing the ↑ or ↓ buttons. The light fields on the control panel will indicate the setpoint set. Continuously pressing the ↓ button will stop the pump.



PERFORMANCE



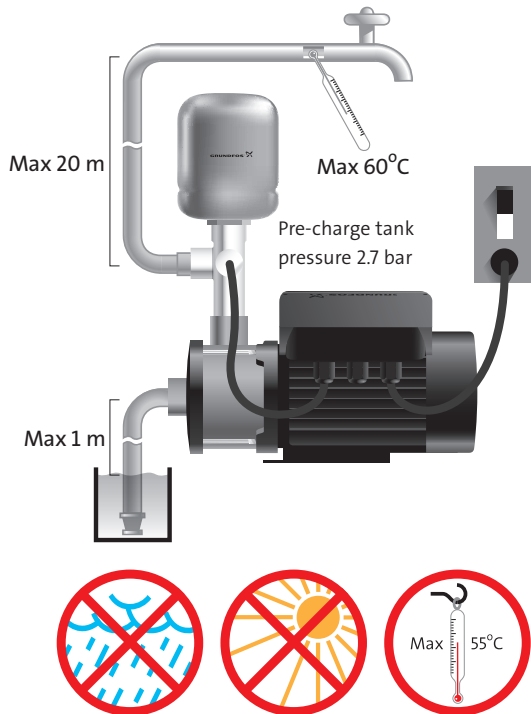
SELECTION

| Current CH-PC Model | Suitable Replacement CME* |
|---------------------|---------------------------|
| CH2-50 PC | CME1-4 |
| CH2-60 PC | CME3-3 |
| CH4-40 PC | CME3-3 |
| CH4-50 PC | CME3-4 |
| CH4-60 PC | CME3-4 |
| CHIE4-60 | CME3-4 |
| CHIE8-20 | CME5-3 |

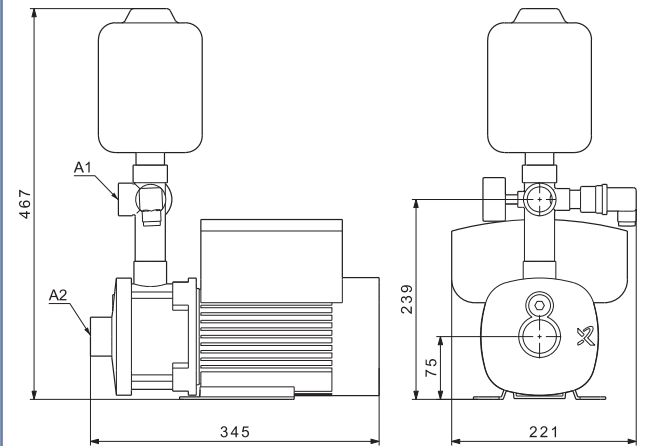
*calculated at 3 bar

INSTALLATION

NOTE: Pump must be mounted in a pump shed or building.



DIMENSIONS



TECHNICAL FEATURES

| Pump | P2 (kW) | 1ph In (A) | Water temp | Connections | | Weight (kg) |
|--------|---------|------------|------------|-------------|-------------|-------------|
| | | | | inlet (A2) | outlet (A1) | |
| CME1-4 | 0.55 | 3.4 | 0/60°C | 1" | 1" | 22 |
| CME3-3 | 1.10 | 6.6 | 0/60°C | 1" | 1" | 23 |
| CME3-4 | 1.10 | 6.6 | 0/60°C | 1" | 1" | 24 |
| CME5-3 | 1.10 | 6.6 | 0/60°C | 1 1/4" | 1" | 23 |



APPLICATIONS

Provides reliable pressure boosting and water supply while minimising annoying shower temperature fluctuations.

FEATURES


- CH-PC incorporates dry run protection
- Quiet operation
- Vital parts made of stainless steel for a long life
- Built-in thermal protection (1 x 240 V)
- Electrophoresis coating to resist corrosion

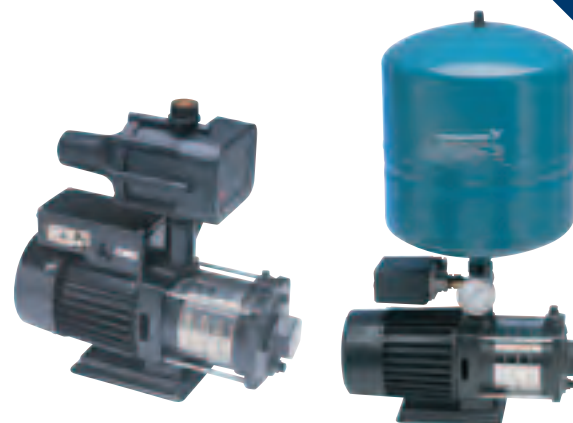
CONSTRUCTION

- Stainless steel impellers, intermediate chambers and shaft
- Carbon / ceramic seal
- IP54 motor
- Insulation Class F
- Maximum ambient temperature: + 55 °C

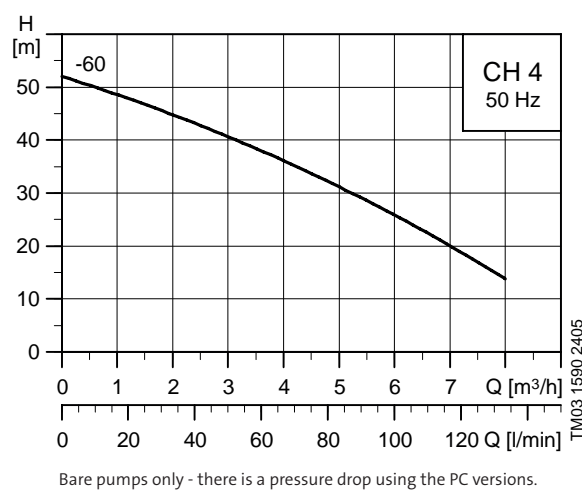
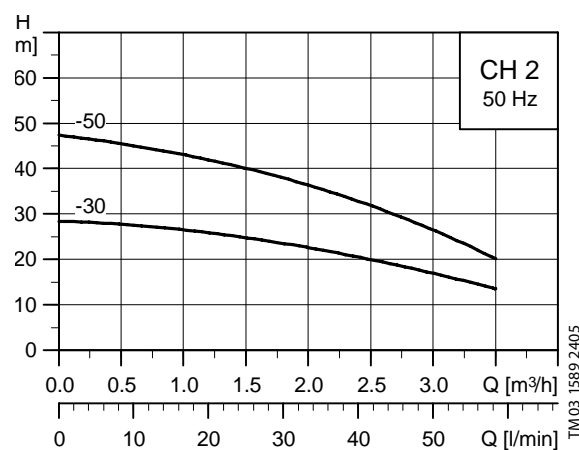
PERFORMANCE

| Pumps | Discharge Pressure (kPa/psi) | | | | | | |
|----------------|------------------------------|-----|-----|-----|-----|-----|-----|
| | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| | 22 | 29 | 36 | 44 | 51 | 58 | 65 |
| Output (l/min) | | | | | | | |
| CH2-30 PC15 | 49 | 35 | 20 | - | - | - | - |
| CH2-50 PC15 | 54 | 49 | 46 | 37 | 30 | 21 | - |
| CH4-60 PC22 | 111 | 103 | 95 | 81 | 72 | 60 | 46 |
| CH2-30 PT8 | 31 | 24 | 13 | - | - | - | - |
| CH2-50 PT18 | 57 | 53 | 46 | 34 | 28 | - | - |
| CH4-60 PT18 | 127 | 121 | 109 | 98 | 83 | 69 | 49 |

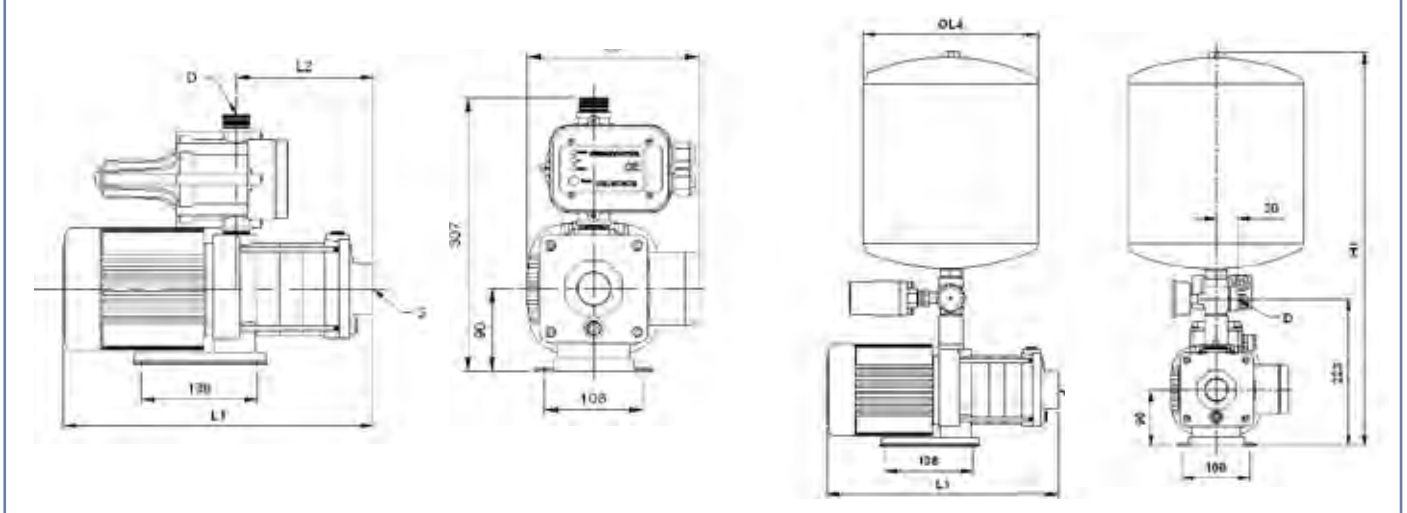
As a guide 1 tap  = 10 litres per minute • 1 sprinkler  = 15 litres per minute



CH-PC & CH-PT



DIMENSIONS



TECHNICAL FEATURES

| Pumps | P2 (kW) | 1ph In (A) | Water temp (°C) | Connections | | | Dimensions (mm) | | | | | Weight (kg) | | Cut-in/Cut-out | |
|--------|------------|---------------|--------------------|-------------|--------|-----|-----------------|-----|-----|-----|-----|----------------|------|----------------|-------|
| | | | | inlet | outlet | | L1 | L2 | L3 | L4 | H1 | PC | PT | kPa | psi |
| | | | | | PC | PT | | | | | | | | | |
| CH2-30 | 0.30 | 2.3 | 0/65 | 1"F | 1"M | 1"F | 324 | 117 | 188 | 202 | 556 | 11 | 13 | 140-245 | 20-36 |
| CH2-50 | 0.45 | 2.9 | 0/65 | 1"F | 1"M | 1"F | 368 | 154 | 188 | 279 | 620 | 12.7 | 14.7 | 200-385 | 29-56 |
| CH4-60 | 1.05 | 7 | 0/65 | 1 1/4"F | 1"M | 1"F | 466 | 217 | 206 | 279 | 620 | 16.6 | 18.6 | 245-460 | 36-66 |

Tank pressure set 10% below cut-in pressure



APPLICATIONS

The Grundfos PM Rain is an interconnect device that allows you to utilise your harvested rainwater for toilet, laundry and garden applications, with the added benefit of mains water backup.

The PM Rain is used in conjunction with a Grundfos pump. The pump itself is only activated when rainwater is being drawn from the tank. It does not operate when switched to mains.

The PM Rain automatically starts when a demand is sensed – for example the flushing of a toilet or filling a washing machine - and will switch over to mains water when your tank is empty or in the case of an electrical failure.

Grundfos has incorporated a specially designed valve eliminating the need for an in-tank float – drastically decreasing installation time.



FEATURES

- The easiest, quickest system to install
- Does not require any regular maintenance
- Dual check valve for backflow prevention
- Suitable for above and below ground tanks
- Will automatically switch to mains water in the event of power failure

TECHNICAL FEATURES

- Maximum Flow Rate – Pump 75 Lpm
- Maximum Mains Pressure – limited to 200 kPa
- Maximum Water Temperature 40°C
- Maximum Ambient Temperature 50°C
- Mains water inlet size via dual check valve ¾" BSP (F)
- Voltage 240 V, 50 Hz

OPTIONS

The Grundfos PM Rain is available in a number of configurations:

Surface Mount – The PM Rain interconnect device can be fitted to one of our reliable JP or JP Rain range of pressure pumps, making it suitable for above ground tanks.

Submersible - The PM Rain interconnect device can be fitted to a submersible SB pump for in tank pump installations with either a wall or tank mount kit, making it a great solution for above and below ground tanks.

CONSTRUCTION

- The Grundfos PM Rain, JP Rain, JP and SB all comply with AS/NZS 4020 – Testing of products in contact with drinking water
- Always install under cover to protect from the elements

| | | Above Ground Tank | Above Ground Tank | Below Ground Tank |
|---------------|--------------------------------------|-------------------|---------------------------|---------------------------|
| Type of House | Outlets | Basic Solution | Grundfos Quality Solution | Grundfos Quality Solution |
| Single Storey | 1 x Toilet, Laundry and Outside Tap | JPRain2 PM Rain | - | - |
| | 2 x Toilets, Laundry and Outside Tap | JPRain3 PM Rain | - | - |
| | 3 x Toilets, Laundry and Outside Tap | JPRain4 PM Rain | JP5 PM Rain | SB 3-35 PM Rain |
| | 4 x Toilets, Laundry and Outside Tap | JPRain4 PM Rain | JP6 PM Rain | SB 3-45 PM Rain |
| Double Storey | 1 x Toilet, Laundry and Outside Tap | JPRain3 PM Rain | - | - |
| | 2 x Toilets, Laundry and Outside Tap | JPRain4 PM Rain | JP5 PM Rain | SB 3-35 PM Rain |
| | 3 x Toilets, Laundry and Outside Tap | JPRain4 PM Rain | JP6 PM Rain | SB 3-45 PM Rain |

PM RAIN DEVICE

The PM Rain saves you more than just water. The 'floatless' operating system allows for speedy installation with no holes to drill or cable to conduit. The PM Rain comes complete with all of the features you would expect, such as automatic changeover and water source indication lights.

The PM Rain also incorporates further protection features such as leakage detection (to prevent rapid cycling). The PM Rain is fully certified to AS4020 - The *Standard* designed to test any product that comes in contact with drinking water. To further reduce the usage of precious mains water the incoming pressure is reduced to 200 kPa.

SB – ABOVE & BELOW GROUND TANKS

The SB submersible pump is silent when submerged and is therefore a noiseless alternative to external surface mounted pumps. The SB pump is built of composite and stainless-steel materials that are resistant to corrosion. The SB pump is available in two sizes for single or double storey houses.

JP RAIN – ABOVE GROUND TANKS ONLY

The JP Rain is the Grundfos entry level water harvesting pumping unit. Made from technopolymer plastics, the JP Rain will give many years of trouble free service. The JP Rain is available in three sizes for small single storey houses to large two and even three storey applications.

JP – ABOVE GROUND TANKS

The robust Grundfos JP stainless steel pressure pump is the premium choice in external pumps for rainwater harvesting. It is available in two sizes to better match your needs.



JP Rain Pump



SB Pump



APPLICATIONS

The JP pump is a horizontal, self-priming, centrifugal pump for pumping clear water and other non-aggressive liquids.

This compact unit, which can be used in a fixed position or transported as required, is easy to maintain and is simple and economical to run.

FEATURES



- JP5 MP is coupled by a union to the reliable Mondial Press control
- Suction lift: up to 8 metres, including suction
- Carry handle
- Supplied with lead, plug and start/stop switch

CONSTRUCTION

- Stainless steel pump housing and impeller. AISI 304
- Paint application by electrophoresis ensures the motor has excellent corrosion resistance
- Carbon/ceramic seal (CVBP)
- IP44 motor. Insulation Class F
- Single-phase models effectively protected against any accidental overload by built in thermal protection in the terminal box
- Voltage: 1 x 240 V, 50 Hz

PERFORMANCE

| Pumps | Discharge Pressure (kPa/psi) | Suction Lift (metres) | | | |
|-------|---------------------------------|-----------------------|----|----|----|
| | | 0 | 2 | 4 | 6 |
| | | Output (l/min) | | | |
| JP5 L | 200/29 | 52 | 45 | 39 | 33 |
| | 250/36 | 38 | 29 | 23 | 16 |
| JP6 L | 250/36 | 72 | 65 | 57 | 48 |
| | 300/44 | 53 | 45 | 37 | 31 |

As a guide 1 tap  = 10 litres per minute • 1 sprinkler  = 15 litres per minute

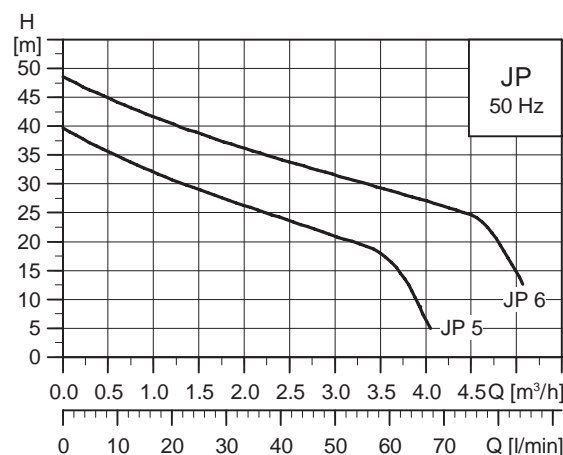
TECHNICAL FEATURES

| Pumps | P2 (kW) | 1 ph In (A) | Water temp (°C) | Connections | | Weight (kg) | Dimensions (mm) | | |
|-------|------------|----------------|--------------------|-------------|--------|----------------|-----------------|-----|-----|
| | | | | inlet | outlet | | A | B | C |
| JP5 | 0.48 | 3.4 | 0/55 | 1" M | 1" M | 8.5 | 306 | 364 | 240 |
| JP6 | 0.92 | 6.2 | 0/55 | 1" M | 1" M | 11.8 | 306 | 401 | 240 |



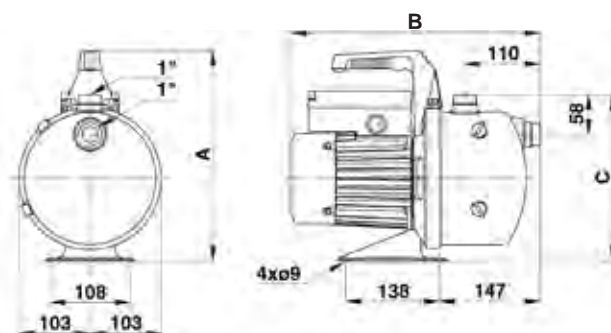
2 YEAR
WARRANTY

JP5 MP & JP5 / JP6



Performance based on zero suction lift

DIMENSIONS / INSTALLATION



The JP pump can be fitted with a Presscontrol for automatic operation. Automatic start/stop of the pump when the tap is opened/closed and dry running protection.

APPLICATIONS

The SB pump is a submersible booster pump for the pumping of clean water ideal for rainwater systems, treated grey water irrigation, operating sprinklers, and pumping water from tanks.

The pump is available in two main versions:

- with integrated suction strainer (1 mm mesh)
- with side inlet which includes a flexible suction hose with floating suction strainer (1 mm mesh).

FEATURES



- Silent alternative to surface pumps
- Built in thermal overload protection
- Float switch option used for automatic operation or dry-running protection of the pump

CONSTRUCTION

- Composite and stainless steel materials (resistant to corrosion)
- Anti-debris stainless steel strainer
- 1 x 240 V, IP68 motor, Class B

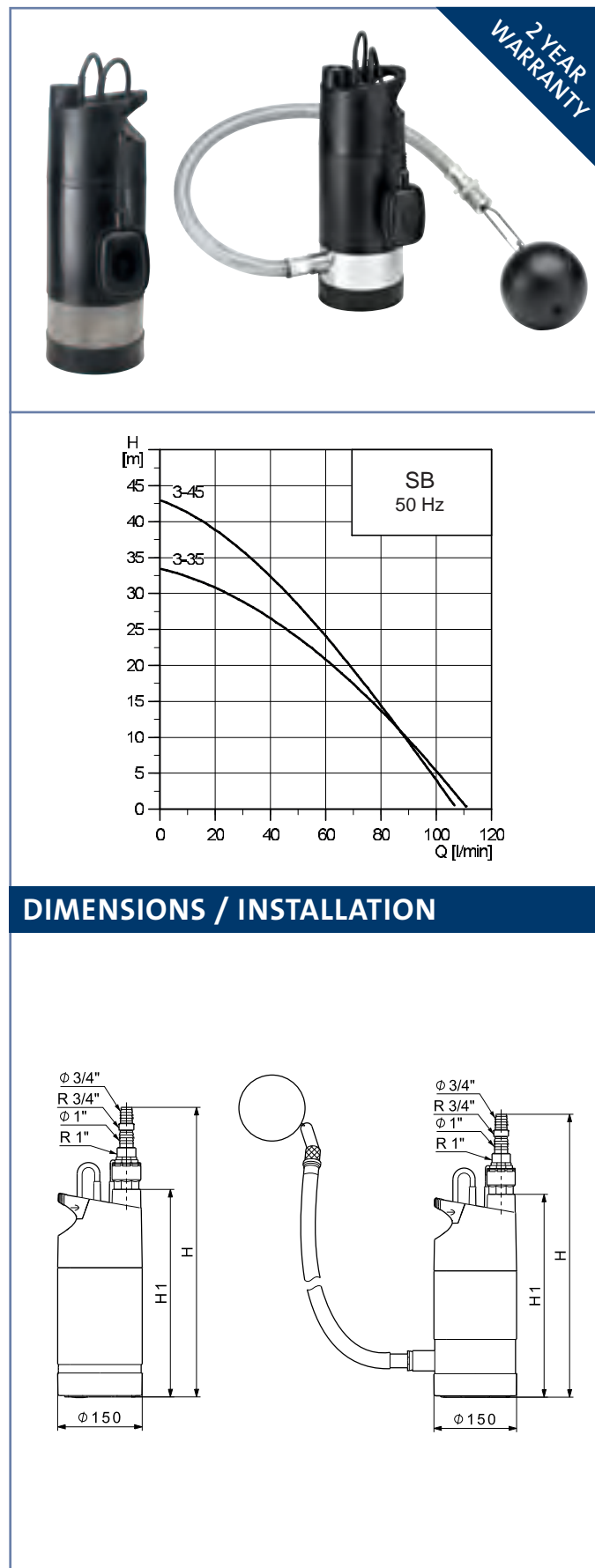
PERFORMANCE

| Pumps | Discharge Pressure (kPa/psi) | | | |
|-----------|------------------------------|-----|-----|-----|
| | 200 | 250 | 300 | 350 |
| | Output (l/min) | | | |
| SB 3-35AW | 65 | 43 | 24 | - |
| SB 3-35A | 65 | 43 | 24 | - |
| SB 3-45AW | 70 | 58 | 44 | 35 |
| SB 3-45A | 70 | 58 | 44 | 35 |

As a guide 1 tap  = 10 litres per minute • 1 sprinkler  = 15 litres per minute

TECHNICAL FEATURES

| Pumps | Cable (m) | P1 (kW) | 1 ph In (A) | Outlet | Dimensions | |
|---------|-----------|---------|-------------|--------|------------|-----|
| | | | | | D | H |
| SB 3-35 | 15 | 0.80 | 3.8 | 1" F | 150 | 397 |
| SB 3-45 | 15 | 1.05 | 4.8 | 1" F | 150 | 397 |



APPLICATIONS

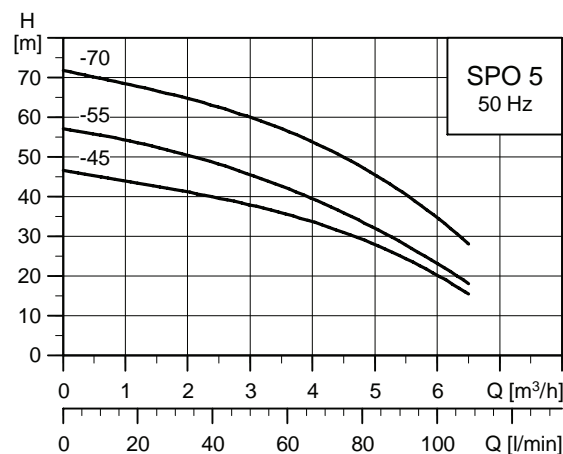
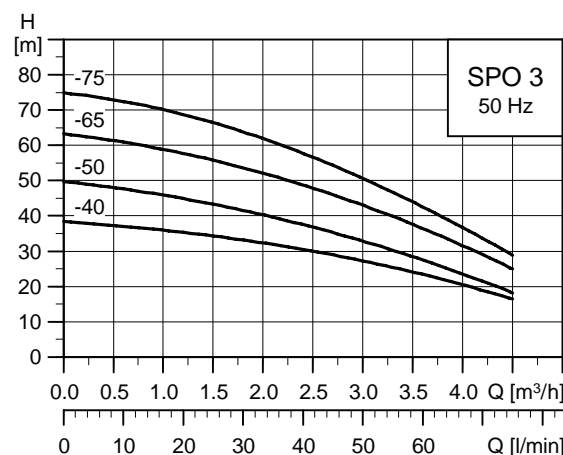
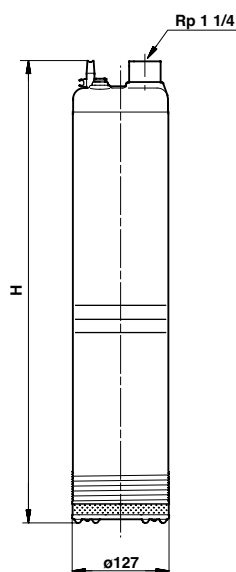
The SPO pump is designed for water supply, drainage, and pressure boosting in domestic homes and week-end cottages.

FEATURES

- 304 stainless steel hydraulic parts for a long life
- Double mechanical shaft seal ensures trouble free operation
- Easy to dismantle suction strainer allows cleaning if the strainer becomes clogged
- Supplied with cable, plug and built-in capacitor, and "quick-installation-guide" which makes installation quick and easy

CONSTRUCTION

- Stainless steel impellers, chambers and shaft. (AISI 304)
- Single phase models with built-in thermal protection
- Maximum liquid max: 40 °C
- Max. pressure: 10 bar
- Voltage: 1 x 240 V, 50 Hz
- "A" model supplied with float switch

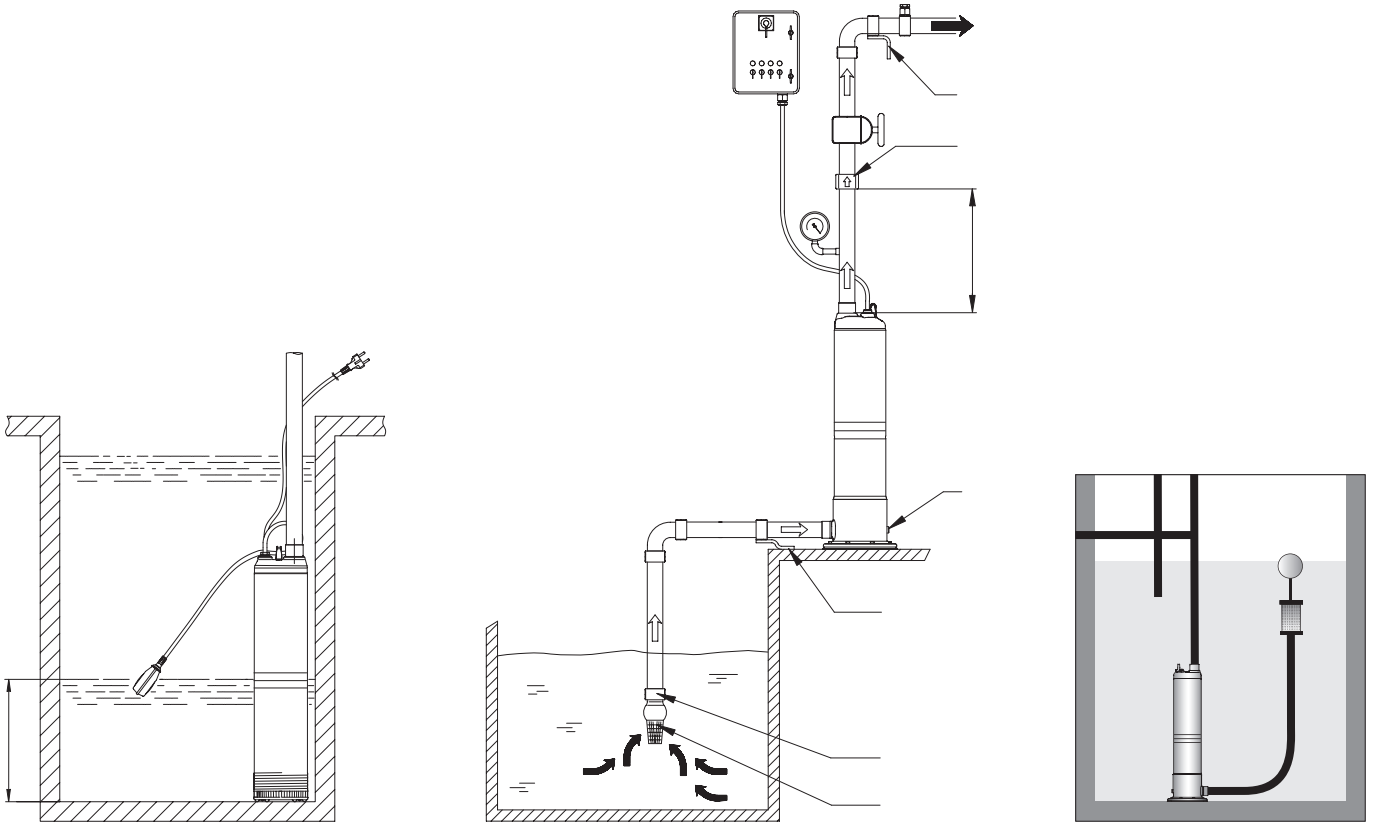


TECHNICAL FEATURES

| Pumps | Cable (m) | P2 (kW) | 1 ph In (A) | Water temp | Outlet | H (mm) | Weight (kg) | l/min m³/h | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 90 | 100 | 110 |
|--------------|-----------|---------|-------------|--------------|--------|--------|-------------|---------------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| | | | | | | | | | 0.6 | 1.2 | 1.8 | 2.4 | 3 | 3.6 | 4.2 | 5.4 | 6.0 | 6.6 |
| SPO 3-40 (A) | 20 | 0.75 | 4.80 | 40°C maximum | 1 ¼"F | 546 | 16.80 | m Head | 37 | 36 | 33 | 30 | 27 | 23 | 19 | - | - | - |
| SPO 3-50 (A) | 20 | 0.75 | 5.90 | | 1 ¼"F | 546 | 16.90 | | 47 | 45 | 42 | 37 | 33 | 28 | 22 | - | - | - |
| SPO 3-65 | 20 | 1.0 | 7.30 | | 1 ¼"F | 606 | 18.70 | | 61 | 58 | 53 | 48 | 43 | 37 | 29 | - | - | - |
| SPO 3-75 | 20 | 1.2 | 9.60 | | 1 ¼"F | 626 | 20.90 | | 72 | 70 | 63 | 58 | 51 | 44 | 35 | - | - | - |
| SPO 5-45 (A) | 20 | 0.75 | 5.80 | | 1 ¼"F | 546 | 17.20 | | 45 | 44 | 42 | 40 | 37 | 35 | 32 | 26 | 20 | 14 |
| SPO 5-55 | 20 | 1.0 | 7.00 | | 1 ¼"F | 606 | 19.00 | | 55 | 53 | 51 | 48 | 45 | 42 | 38 | 28 | 23 | 17 |
| SPO 5-70 | 20 | 1.2 | 9.10 | | 1 ¼"F | 626 | 21.20 | | 70 | 68 | 65 | 63 | 60 | 56 | 52 | 42 | 35 | 26 |

A = with level switch

INSTALLATION



APPLICATIONS

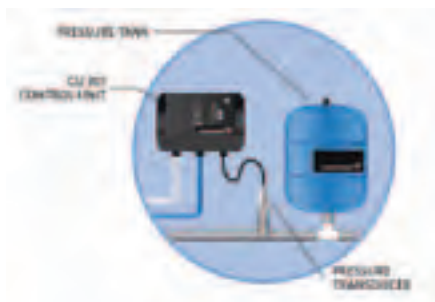
The unique and compact design of the SQN/SQEN makes it suitable for a variety of applications including domestic water supply, light irrigation and pumping water for livestock.

FEATURES

- Borehole diameter 76 mm minimum
- Light weight for ease of installation
- Built-in dry run protection
- Constant pressure option (SQEN/CU301)

CONSTRUCTION

- Stainless steel housing (AISI 316)
- Composite impellers and chambers
- Built-in non return valve



TECHNICAL FEATURES / PERFORMANCE

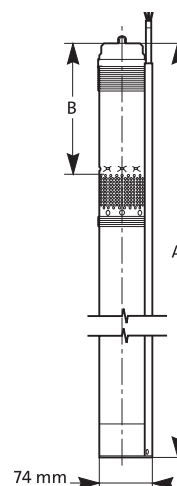
| Pumps (selected domestic models) | P2 (kW) | Full Load (A) | Outlet size | Weight (kg) | Dim A (mm) | Discharge Pressure (kPa/psi) | Pumping water level (metres) | | | | | | | |
|-------------------------------------|------------|---------------------|----------------|----------------|------------------|------------------------------------|------------------------------|-----|-----|-----|-----|----|----|----|
| | | | | | | | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
| | | | | | | | Output (litres per min) | | | | | | | |
| SQN or SQEN 1-80 | 1.15 | 8.4 | 1 ¼" F | 5.6 | 825 | | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 |
| SQN or SQEN 2-55 | 0.7 | 5.2 | 1 ¼" F | 5.8 | 741 | | 44 | 41 | 39 | 37 | 34 | 30 | 27 | - |
| SQN or SQEN 2-70 | 1.15 | 8.4 | 1 ¼" F | 6.4 | 768 | | 49 | 47 | 46 | 45 | 43 | 41 | 40 | 38 |
| SQN or SQEN 2-85 | 1.15 | 8.4 | 1 ¼" F | 6.5 | 825 | | 53 | 51 | 50 | 49 | 48 | 47 | 46 | 44 |
| SQN or SQEN 3-40 | 0.7 | 5.2 | 1 ¼" F | 5.8 | 741 | | 48 | 43 | 36 | - | - | - | - | - |
| SQN or SQEN 3-55 | 1.15 | 8.4 | 1 ¼" F | 6.4 | 768 | 300/43 | 60 | 58 | 56 | 53 | 50 | 46 | 43 | 39 |
| SQN or SQEN 3-65 | 1.15 | 8.4 | 1 ¼" F | 6.8 | 825 | | 67 | 65 | 63 | 61 | 60 | 57 | 55 | 53 |
| SQN or SQEN 3-105 | 1.85 | 12 | 1 ¼" F | 7.4 | 942 | | - | - | 73 | 71 | 70 | 69 | 68 | 67 |
| SQN or SQEN 5-50 | 1.68 | 11.2 | 1 ½" F | 6.1 | 824 | | 95 | 91 | 86 | 80 | 75 | 67 | 63 | 50 |
| SQN or SQEN 5-70 | 1.85 | 12 | 1 ½" F | 6.4 | 941 | | 111 | 109 | 106 | 103 | 100 | 98 | 95 | 91 |
| SQN or SQEN 7-40 | 1.68 | 11.2 | 1 ½" F | 7.1 | 860 | | 111 | 103 | 93 | 83 | 70 | - | - | - |
| SQN or SQEN 7-55 | 1.8 | 12 | 1 ½" F | 8 | 860 | | 135 | 125 | 118 | 111 | 104 | 96 | 86 | 75 |

As a guide 1 tap = 10 litres per minute • 1 sprinkler = 15 litres per minute

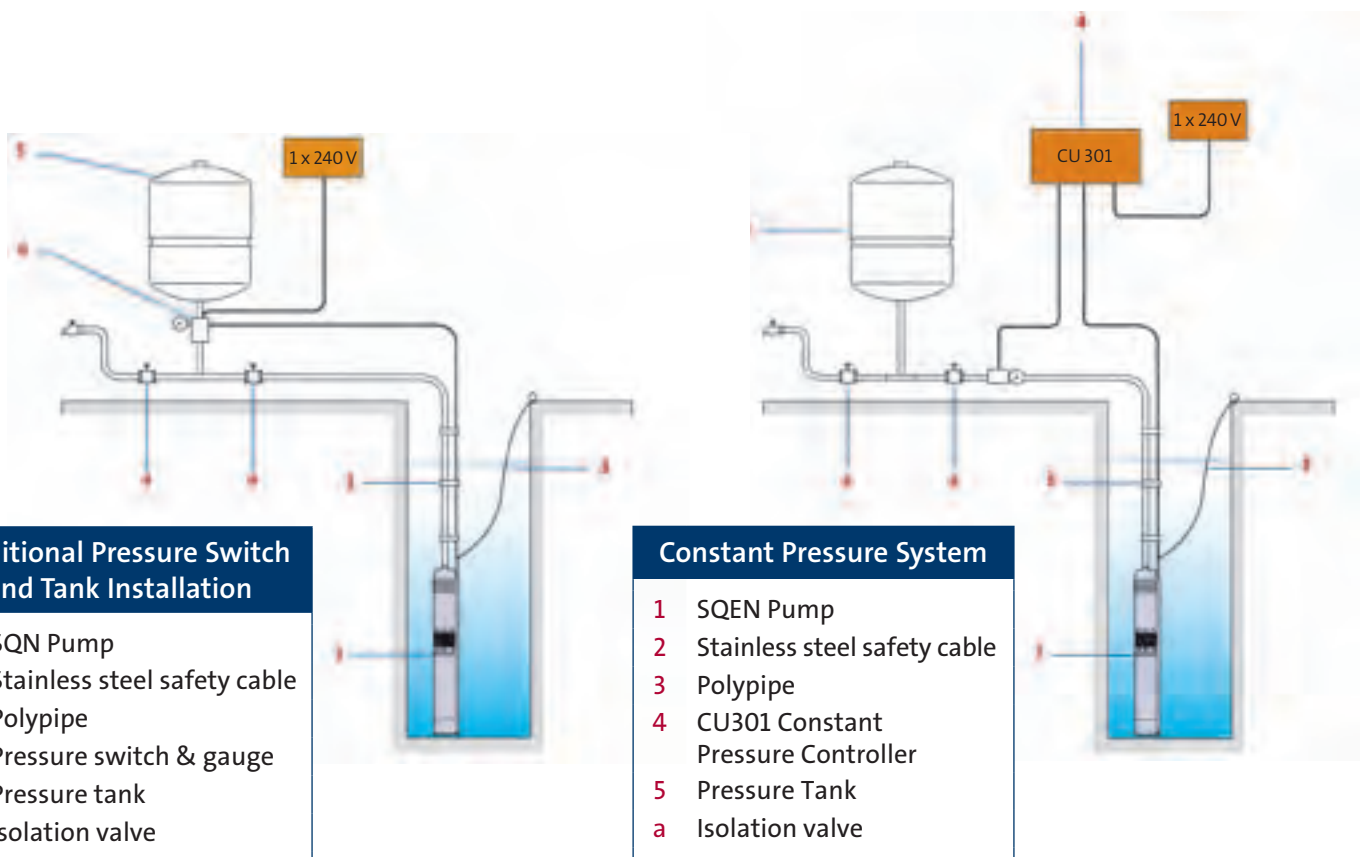


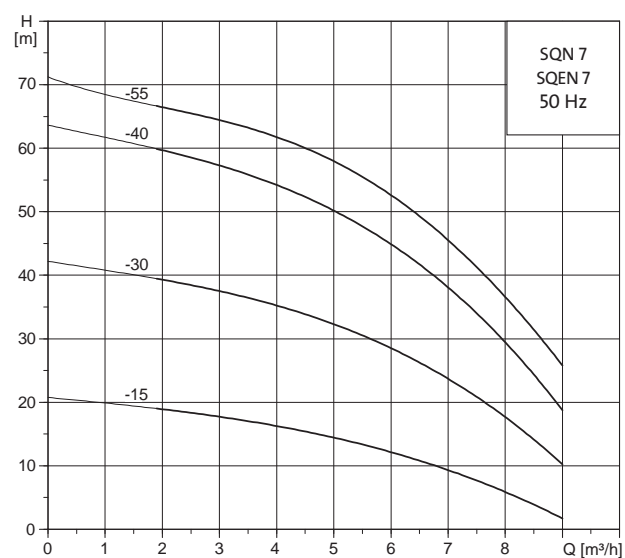
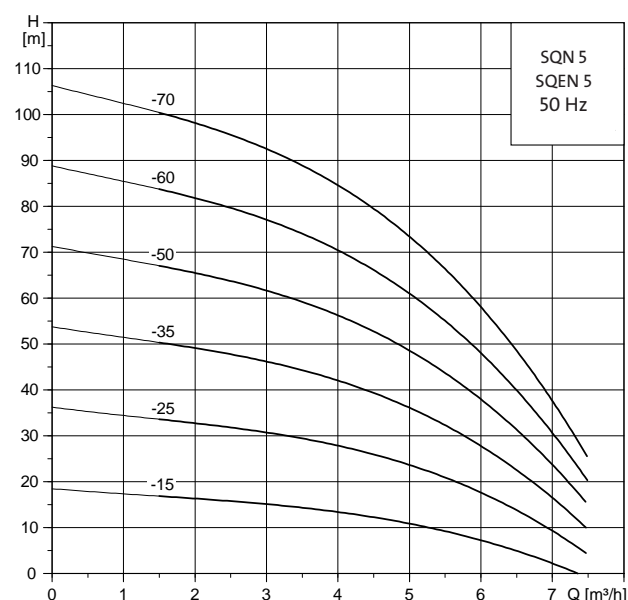
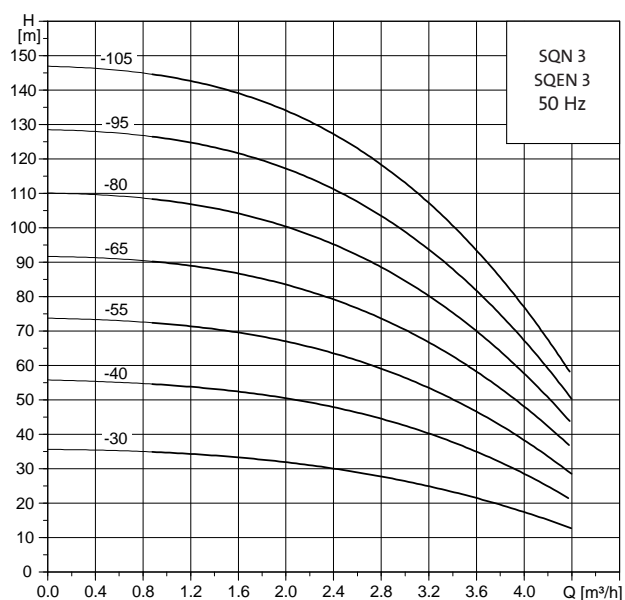
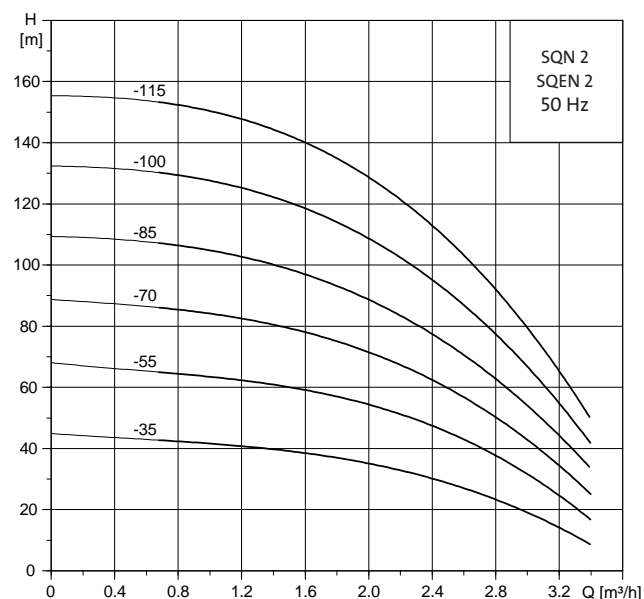
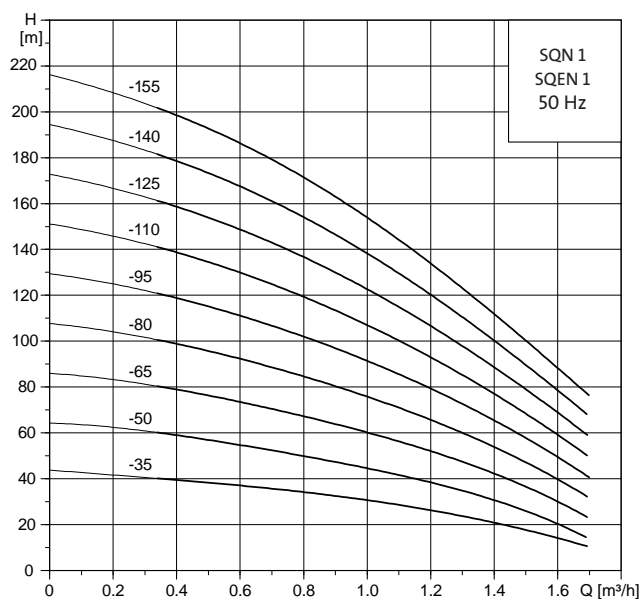
DIMENSIONS / INSTALLATION

SQ pumps do not require either a starter or dry run protection. Vertical or Horizontal installation (cooling sleeve recommended). Submersion depth: maximum 150 m and minimum 0.5 m below the static level of the water.



3" SUBMERSIBLE BOREHOLE PUMPS





APPLICATIONS

Grundfos pressure tanks are for cold water and are ideally suited and approved for use with drinking water.

The range assures reliable supply in both domestic and industrial situations.

FEATURES

- Potable water application
- Can be used with any Grundfos pump
- Five year warranty
- Tank capacity up to 450 litres on request
- Water Mark approved*

CONSTRUCTION

- The tanks have a non-toxic butyl rubber diaphragm, dividing the tank chamber in two compartments. The upper compartment contains compressed atmospheric air. The lower compartment has a liner in polypropylene (PP) and is filled with water from the pump
- Vertical installation
- Pre-charge pressure: 150 kPa / 22 psi

Note: the tank pressure must be checked at least twice a year. Set the tank pressure 10% below the pump cut-in pressure



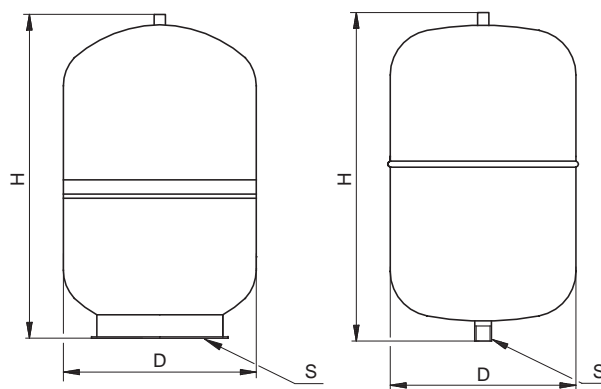
TECHNICAL FEATURES

| Tanks | Capacity (litres) | Water temp (°C) | Max Operating pressure (kpa) | Mounting type | Connection inlet | Dimensions (mm) | | Weight (kg) |
|--------------------------|-------------------|-----------------|------------------------------|---------------|------------------|-----------------|------|-------------|
| | | | | | | D | H | |
| GT-H-8* | 8 | 0/90 | 1000 | Pipe | 1" M | 202 | 303 | 2.3 |
| GT-H-18* | 18 | 0/90 | 1000 | Pipe | 1" M | 279 | 367 | 4.6 |
| GT-H-60* | 60 | 0/90 | 1000 | Foot | 1" F | 388 | 528 | 10 |
| GT-D-100* | 80 | 0/90 | 1000 | Foot | 1" F | 397 | 755 | 16 |
| GT-C 80 PN8.6 Composite | 80 | 0/90 | 860 | Foot | 25 mm | 418 | 852 | 11 |
| GT-C 130 PN8.6 Composite | 130 | 0/90 | 860 | Foot | 25 mm | 418 | 1227 | 15 |
| GT-C 250 PN8.6 Composite | 250 | 0/90 | 860 | Foot | 1 1/4" F | 542 | 1303 | 26 |



5 YEAR
WARRANTY

DIMENSIONS / INSTALLATION







WASTEWATER

Taking wastewater to new levels

The reliable range of Unilift pumps take all the worry out of domestic drainage, whether it's clean or grey water, effluent or sewage.

The Sololift2 range of domestic lifting stations provide reliable handling of wastewater for any combination of toilet, sink, shower and washing machine. They make it simple to install extra bathroom facilities in locations remote from the main sewer connection.



APPLICATIONS

Sololift2 lifting stations are a practical, compact, and ready to install solutions for discharging domestic effluent that cannot reach the main sewage pipe directly.

- The Sololift2 units grind and evacuate sewage and wastewater quickly
- Install bathroom facilities without having to cut into concrete foundations – saves time and money
- Enables installations of toilets and showers where a natural slope cannot be established.
- The Sololift2 is ready to install offering easy installation and maintenance
- Wall hung and freestanding models cater to every space



FEATURES & BENEFITS

- The most powerful, reliable and service friendly lifting station on the market
- Lift out motor and pump unit for clean and easy service and maintenance – no mess
- Captive screw fastening, external pressure switch and tank draining enable fast and clean repairs and service

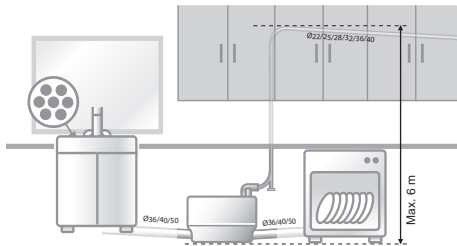
CONSTRUCTION

- Maximum liquid temperature: 50°C (90°C Sololift2 C-3 (30 min))
- Unique, welded, pressure tight tank to ensure safety and reliability particularly in high pressure grey water applications
- Smart adjustable inlet connectors allow movement of up to 10 mm, both vertically and horizontally for easy fitting to existing pipes
- 1.2 metre cable with plug

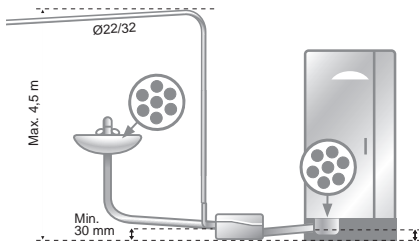
TECHNICAL FEATURES

| Pumps | Diameter (mm) | | Power (W) | Dimensions (mm) | | | l/min | 30 | 45 | 55 | 60 |
|-----------------|-------------------|------------------------------|-----------|-----------------|-----|-----|--------|----|------|------|-----|
| | Discharge | Inlet (connections) | | H | L | W | | | | | |
| Sololift2 WC-1 | 22/25/28/32/36/40 | 1 x 32/36/40 | 620 | 347 | 453 | 176 | | 8 | 7.2 | 5.8 | 3.5 |
| Sololift2 WC-3 | 22/25/28/32/36/40 | 1 x 32/36/40 2 x 36/40/50 | 620 | 347 | 453 | 176 | | 8 | 7.2 | 5.8 | 3.5 |
| Sololift2 CWC-3 | 22/25/28/32/36/40 | 1 x 32/36/40 2 x 36/40/50 | 620 | 368 | 495 | 164 | m Head | 8 | 6.8 | 5.0 | 2.5 |
| Sololift2 C-3 | 22/25/28/32/36/40 | 1 x 32/36/40 2 x 36/40/50 | 640 | 255 | 373 | 158 | | 8 | 7.2 | 6 | 5.4 |
| Sololift2 D-2 | 22/25/28/32/36/40 | 2 x 32/36/40 | 280 | 147 | 299 | 165 | | 8 | 3.38 | 1.98 | - |

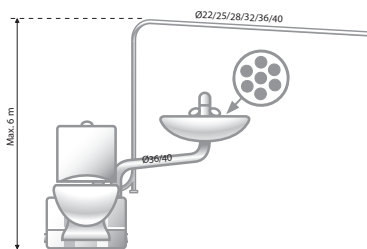
Sololift2 C-3 for washing machine and sink



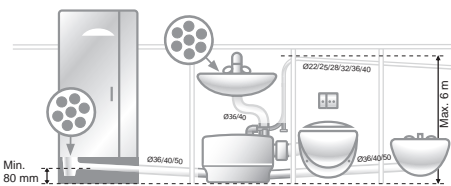
Sololift2 D-2 for shower and sink



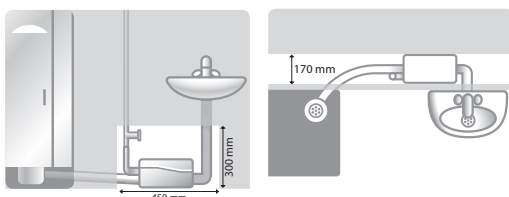
Sololift2 WC-1 for single toilet



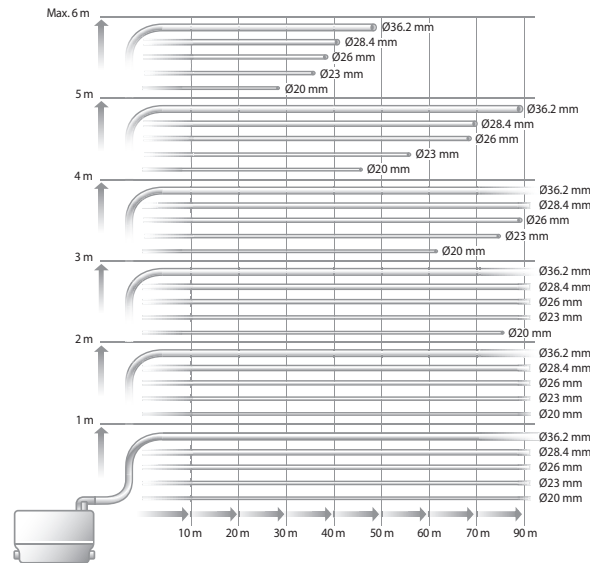
Sololift2 WC-3 for toilet, sink and shower



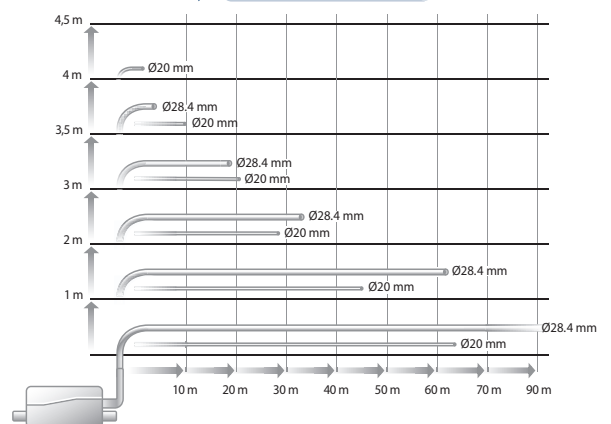
Sololift2 CWC-3 for shower, sink and wall-hung toilets



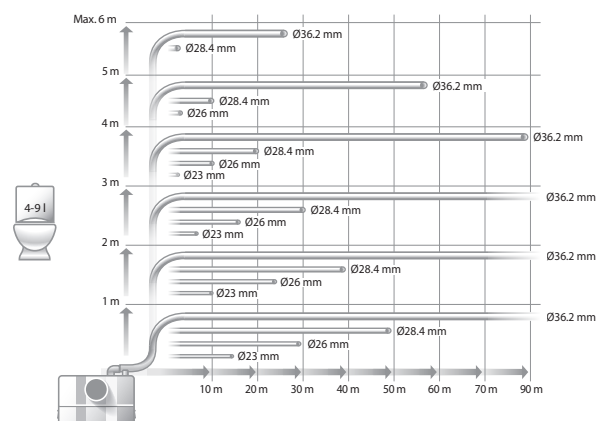
DIMENSIONS / INSTALLATION



Sololift2 C-3



Sololift2 D-2



Sololift2 WC-1 Sololift2 WC-3 Sololift2 CWC-3

APPLICATIONS

Unilift CC are multi-purpose submersible drainage pumps designed to handle clean water, groundwater and grey wastewater with particles up to 10mm.

It must be completely or partly submerged in the liquid.

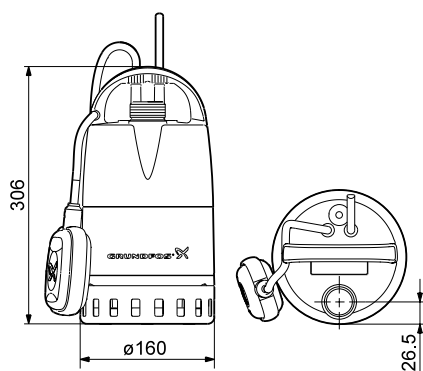
FEATURES

- Low-suction ability - down to 3mm when the strainer is removed
- Self venting valve in the pump allows for optimal operation
- Adaptor for easy connection and non-return valve included
- Easy float switch adjustment to control start/stop levels
- Ceramic shaft seal with triple seals for efficient motor protection
- Includes built-in thermal overload protection

CONSTRUCTION

- Composite and stainless steel materials
- Robust stainless steel strainer, which allows free passage for particles up to 10mm
- Ceramic seal
- IP68 motor, Class B

DIMENSIONS



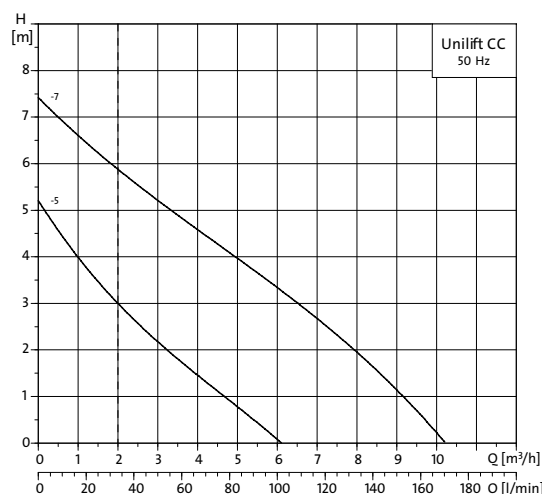
TECHNICAL FEATURES

| Pumps | Cable (m) | P1 (kW) | 1 ph In (A) | Water temp (°C) | Outlet | Dimensions (mm) | | Weight (kg) | l/min | | | | | | |
|----------------|-----------|---------|-------------|-----------------|----------|-----------------|-----|-------------|--------|-----|-----|-----|-----|-----|-----|
| | | | | | | H | B1 | | | 0 | 30 | 60 | 90 | 120 | 150 |
| Unilift CC5 A1 | 10 | 0.25 | 1 | 0/40 | 1 1/4" M | 306 | 160 | 4.3 | m Head | 5.2 | 3.2 | 1.8 | 0.5 | - | - |
| Unilift CC7 A1 | 10 | 0.38 | 1.8 | 0/40 | 1 1/4" M | 306 | 160 | 4.6 | | 7.4 | 6.1 | 4.8 | 3.8 | 2.6 | 1.1 |

*70°C max. for 2 minutes at intervals of at least 30 minutes.

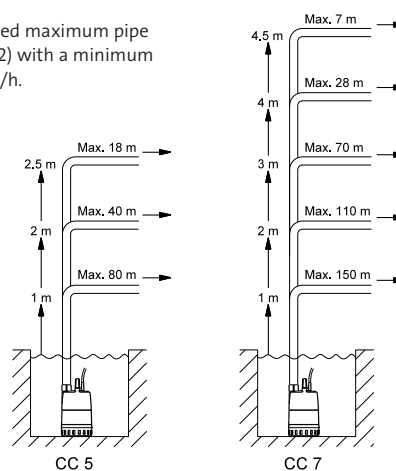


2 YEAR WARRANTY



PERFORMANCE

Recommended maximum pipe length (DN32) with a minimum flow of 2 m³/h.

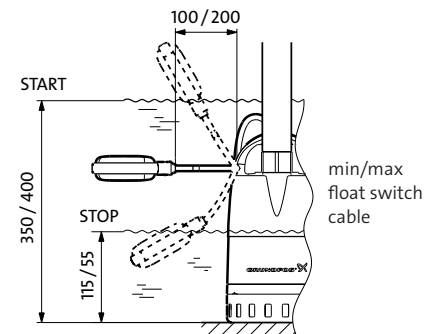
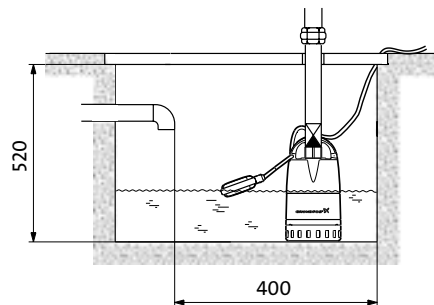


Installation depth: maximum of 10m below the water level.

INSTALLATION

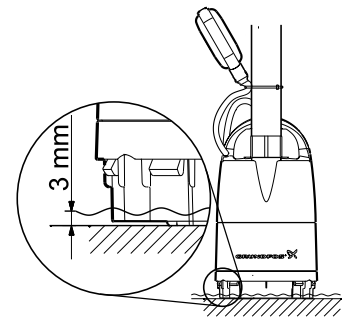
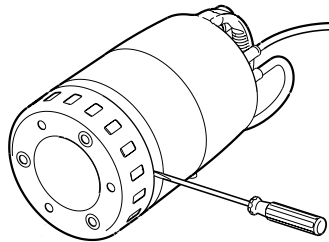
SPACE REQUIREMENTS

The pumps are supplied with 10 metres of cable. If the pump is installed in a pit, the minimum dimensions must be as in the drawing. The UNILIFT CC is equipped with a float switch with adjustable cable length.



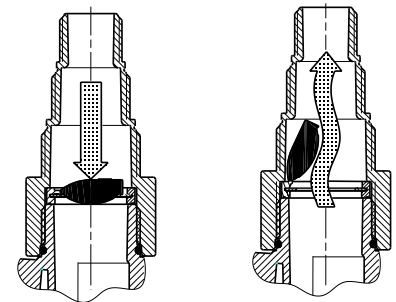
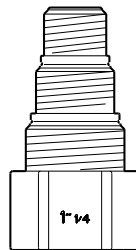
LOW SUCTION

It is possible to obtain low suction by removing the suction strainer with a screwdriver. This makes the pump capable of pumping down to a liquid level of 3mm. The self-prime level is 5mm.



COMPONENTS INCLUDED

The pump is delivered with an adapter for connection and a non-return valve. The adapter has $\frac{3}{4}$ ", 1" and 1 $\frac{1}{4}$ " external threads. The adapter has to be cut to fit the actual discharge pipe. The non return valve can be fitted in the adapter. It prevents backflow when the pump is stopped.



APPLICATIONS

KP and AP12 pumps are portable, multipurpose, submersible stainless steel pumps for the transfer of clear, non-aggressive water, slightly soiled water and wastewater. These pumps work equally well automatically and manually and are designed for either fixed installation or mobile use.

- Lifting wastewater from washing machines, showers, wash basins, located below the drain pipe
- Drainage of flooded cellars, sumps etc
- Drainage or filling of swimming pools or tanks
- Transfer of liquids in agriculture, horticulture and industry
- Pumping water from shallow wells

FEATURES

- Compact design
- Stainless steel construction (AISI 304)
- Wide range, with automatic and manual versions. KP available with a standard float (A1) or a vertical float (Niro)
- Easy maintenance of the strainer and power/float cable

CONSTRUCTION

- Semi-open impeller
- IP68 motor
- Insulation Class F
- 1 x 240 V pumps include capacitor and thermal overload protection
- 3 x 415 V automatic pumps (A3) include control box with contactor, overload and 10 m float switch
- 3 x 415 V manual pumps (3) require a starter incorporating correct motor overload protection

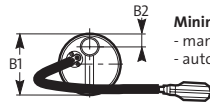
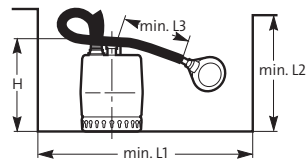
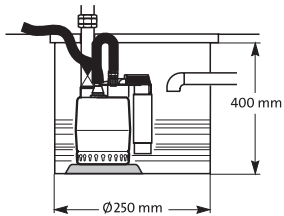
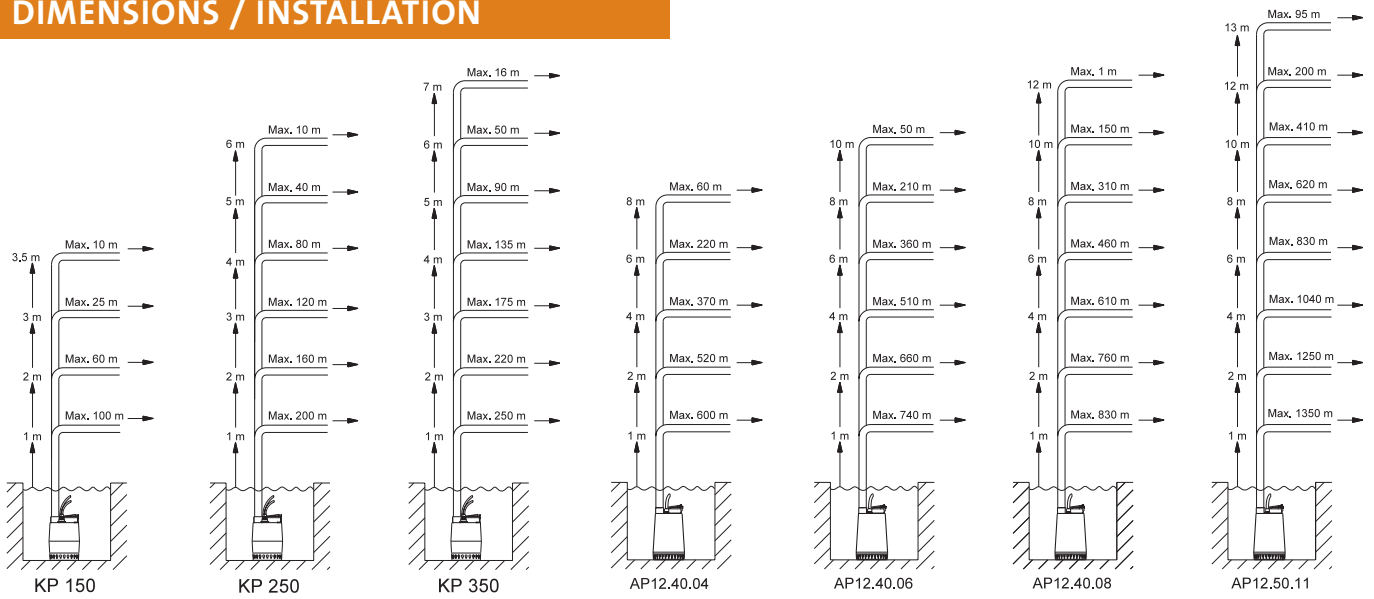
TECHNICAL FEATURES

| Pumps | Cable (m) | P2 (kW) | 1 ph In (A) | 3 ph In (A) | Water temp (°C) | Outlet | Dimensions (mm) | | | | | l/min m³/h | 0 | 50 | 100 | 150 | 200 | 300 | 400 | 500 |
|--------------------|-----------|---------|-------------|-------------|-----------------|--------|-----------------|-----|-----|-----|-----|---------------|------|------|------|------|------|------|-----|-----|
| | | | | | | | H | B1 | L1 | L2 | L3 | | 0 | 3 | 6 | 9 | 12 | 18 | 24 | 30 |
| Unilift KP 150 | 5 | 0.14 | 1.3 | no | 0/50 | 1 ½"F | 225 | 149 | 350 | 400 | 70 | | 5.2 | 3.9 | 2.7 | - | - | - | - | - |
| Unilift KP 250 | 5 | 0.25 | 2.2 | no | 0/50 | 1 ½"F | 225 | 149 | 350 | 400 | 70 | | 7.5 | 6.7 | 5 | 2.8 | - | - | - | - |
| Unilift KP 350 | 5 | 0.35 | 3.2 | no | 0/50 | 1 ½"F | 235 | 149 | 350 | 410 | 70 | | 9 | 7.9 | 6.7 | 5.1 | 2.9 | - | - | - |
| Unilift AP12-40-04 | 10 | 0.4 | 3 | 1.2 | 0/55 | 1 ½"F | 321 | 216 | 550 | 600 | 100 | m Head | 10.7 | 9.6 | 8.5 | 7.1 | 5.4 | 1.3 | - | - |
| Unilift AP12-40-06 | 10 | 0.6 | 4.4 | 1.6 | 0/55 | 1 ½"F | 321 | 216 | 550 | 600 | 100 | | 12.9 | 11.9 | 10.7 | 9.2 | 7.5 | 3.4 | - | - |
| Unilift AP12-40-08 | 10 | 0.8 | 5.9 | 2.1 | 0/55 | 1 ½"F | 346 | 216 | 550 | 600 | 100 | | 14.5 | 13.5 | 12.4 | 11.1 | 9.6 | 5.8 | 0.8 | - |
| Unilift AP12-50-11 | 10 | 1.1 | 8.5 | - | 0/55 | 2"F | 357 | 241 | 550 | 600 | 100 | | 16 | 15.2 | 14.3 | 13.2 | 12.1 | 9.5 | 6.6 | 3.5 |
| Unilift AP12-50-11 | 10 | 1.1 | - | 3.2 | 0/55 | 2"F | 357 | 241 | 550 | 600 | 100 | | 16.7 | 15.9 | 15 | 14 | 12.9 | 10.4 | 7.4 | 4.2 |

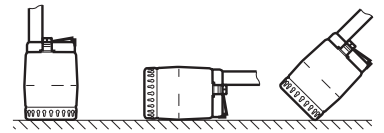
*70 °C max. for 2 minutes at intervals of at least 30 minutes.



DIMENSIONS / INSTALLATION



Minimum level of liquid:
 - manual operation: 14 mm
 - automatic operation: 100 mm



Installation depth: maximum of 10 m below the water level.



APPLICATIONS

The AP35 and AP50 pumps are submersible pumps, specially designed for pumping wastewater and domestic sewage or any other non-aggressive liquid containing solid matter up to 50 mm.

They can be used as a fixed or mobile installation, vertically or horizontally (discharge outlet facing up).

- Lifting domestic wastewater from washing machines, toilets etc
- Draining sumps
- Agricultural and industrial transfer of liquids

FEATURES

- Single-phase models supplied with float switch
- Motor cooling provided in all conditions by cooling jacket
- Solid handling capacity: 35 mm for AP35 and 50 mm for AP50
- Easy service of power cable and float
- Pumped liquid temperature up to 70 °C, for limited operating period (2 minutes per 30 minute period)

CONSTRUCTION

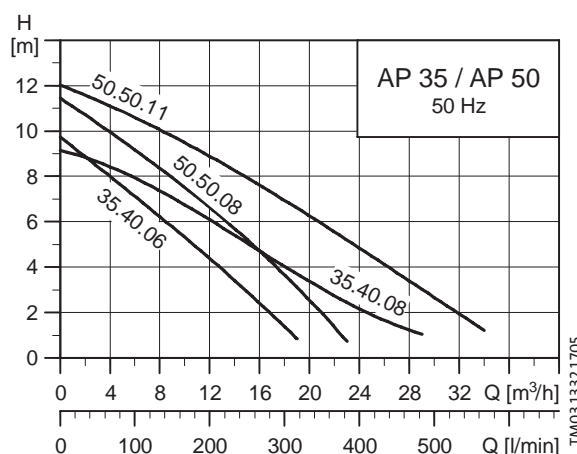
- Stainless steel volute, pump housing and impeller
- IP68 motor
- Insulation Class F
- Semi-open vortex impeller
- Silicon carbide mechanical seal (AP35)
- Tungsten carbide mechanical seal (AP50)
- Voltage: 1 x 240 V with float switch (A)

TECHNICAL FEATURES

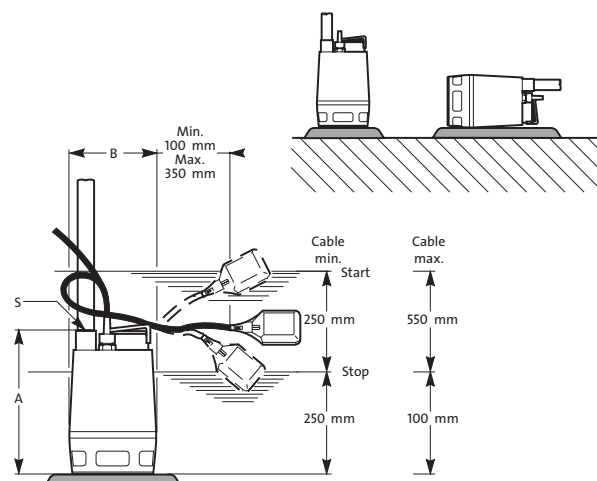
| Pumps | Cable (m) | P2 (kW) | 1 ph In (A) | Water temp (°C) | Outlet | Dimensions (mm) | | l/min m³/h | 0 | 100 | 200 | 300 | 400 | 500 |
|-----------------------|-----------|---------|-------------|-----------------|--------|-----------------|-----|------------|------|------|-----|-----|-----|-----|
| | | | | | | A | B | | 0 | 6 | 12 | 18 | 24 | 30 |
| Unilift AP35-40-06-A1 | 10 | 0.6 | 4 | 0/55 | 1 ½" F | 376 | 216 | m Head | 9.7 | 7.1 | 4.4 | 1.4 | - | - |
| Unilift AP35-40-08-A1 | 10 | 0.7 | 5.5 | 0/55 | 1 ½" F | 410 | 216 | | 11.4 | 9.2 | 6.6 | 3.6 | - | - |
| Unilift AP50-50-08-A1 | 10 | 0.8 | 5.9 | 0/55 | 2" F | 436 | 241 | | 9.1 | 7.9 | 6.1 | 4.0 | 2.2 | - |
| Unilift AP50-50-11-A1 | 10 | 1.1 | 8 | 0/55 | 2" F | 436 | 241 | | 11.8 | 10.2 | 8.3 | 6.3 | 4.2 | 2.0 |



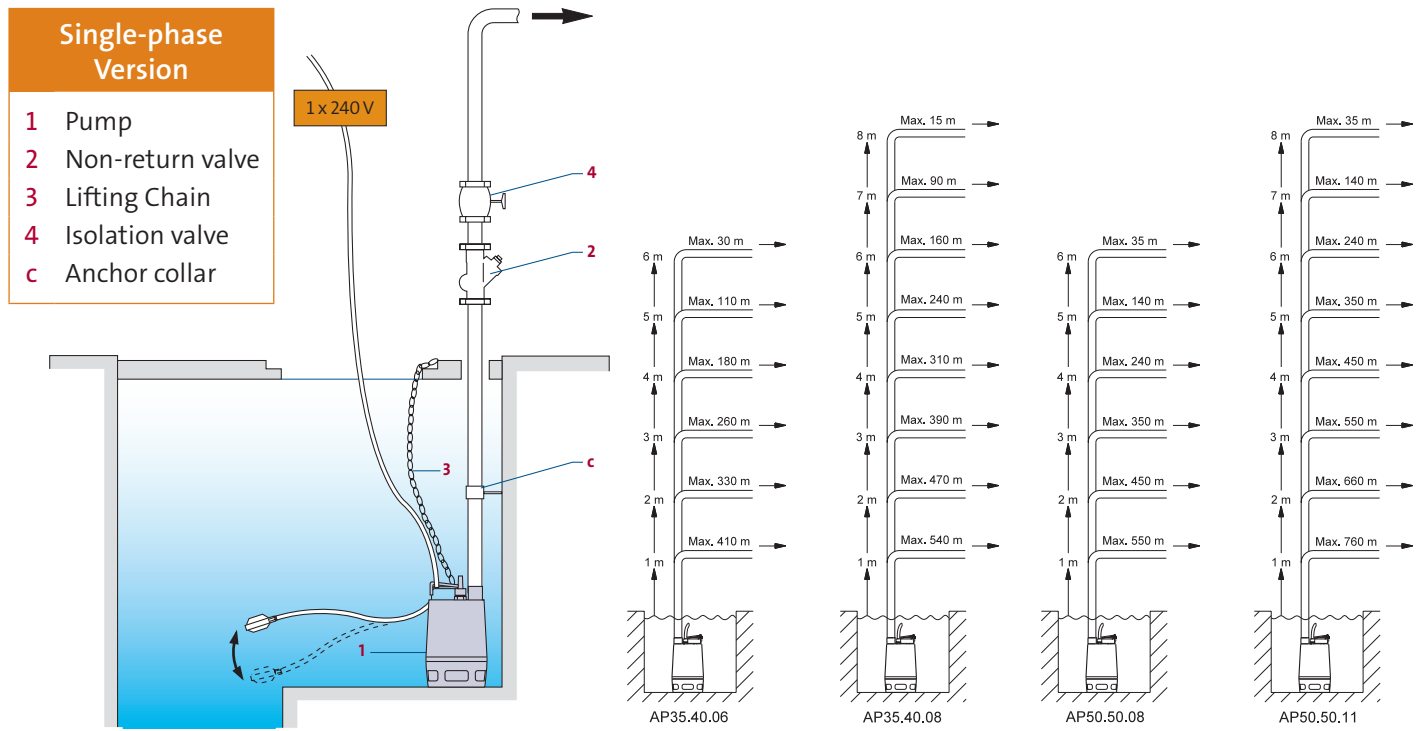
2 YEAR WARRANTY



DIMENSIONS / INSTALLATION



Installation depth: max. 10 m below the water level.



APPLICATIONS

The AP35B and AP50B submersible pumps are specially designed for lifting domestic sewage or any other non-aggressive liquid containing solid matter up to 50 mm. They can be installed vertically or horizontally.

FEATURES

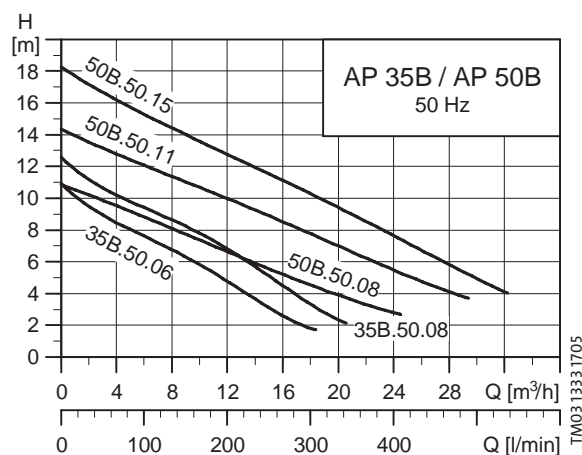
- Single-phase models supplied with float switch and standard electric plug
- Auto Coupling available as an accessory for installation on a guide bar enabling positioning/removal of the pump from outside the hole
- Solid handling capacity: 35 mm for AP35B and 50 mm for AP50B
- Unique clip assembly system enabling immediate access to the impeller without disassembly tools
- Easy service of the power cable and float

CONSTRUCTION

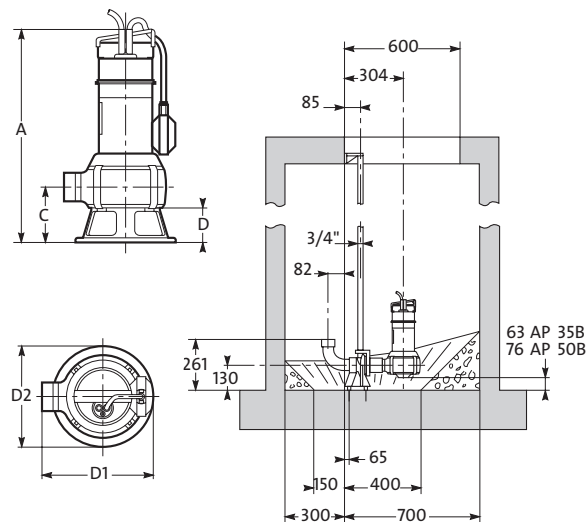
- Stainless steel volute, pump housing and impeller
- IP68 motor
- Insulation Class F
- Vortex impeller
- Silicon carbide mechanical seal
- Voltage: 1 x 240 V with float switch (A1) or 3 x 415 V

TECHNICAL FEATURES

| Pumps | Cable (m) | P2 (kW) | 1 ph In (A) | 3 ph In (A) | Water temp (°C) | Outlet | Dimensions (mm) | | | | | l/min m³/h | 0 | 100 | 200 | 300 | 400 | 500 |
|------------------------|-----------|---------|-------------|-------------|-----------------|--------|-----------------|-----|----|-----|-----|---------------|------|------|------|------|-----|-----|
| | | | | | | | A | C | D | d1 | d2 | | 0 | 6 | 12 | 18 | 24 | 30 |
| Unilift AP35B-50-06-A1 | 10 | 0.66 | 4 | - | 0/40 | 2"F | 443 | 116 | 73 | 234 | 210 | m Head | 10.5 | 7.4 | 4.5 | 1.7 | - | - |
| Unilift AP35B-50-08-A1 | 10 | 0.71 | 5.5 | - | 0/40 | 2"F | 468 | 116 | 73 | 234 | 210 | | 12.5 | 9.4 | 6.8 | 3.4 | - | - |
| Unilift AP50B-50-08-A1 | 10 | 0.74 | 5.4 | - | 0/40 | 2"F | 443 | 116 | 73 | 234 | 210 | | 11.0 | 8.9 | 6.7 | 4.5 | 2.8 | - |
| Unilift AP50B-50-11-A1 | 10 | 1.1 | 8 | - | 0/40 | 2"F | 468 | 116 | 73 | 234 | 210 | | 14.0 | 11.5 | 9.5 | 7.2 | 4.9 | - |
| Unilift AP50B-50-11-3 | 5 | 1.3 | - | 2.8 | 0/40 | 2"F | 468 | 116 | 73 | 234 | 210 | | 14.3 | 12.1 | 10.0 | 7.8 | 5.5 | - |
| Unilift AP50B-50-15-3 | 5 | 1.5 | - | 3 | 0/40 | 2"F | 468 | 116 | 73 | 234 | 210 | | 18.3 | 15.2 | 12.8 | 10.2 | 7.6 | 5.0 |



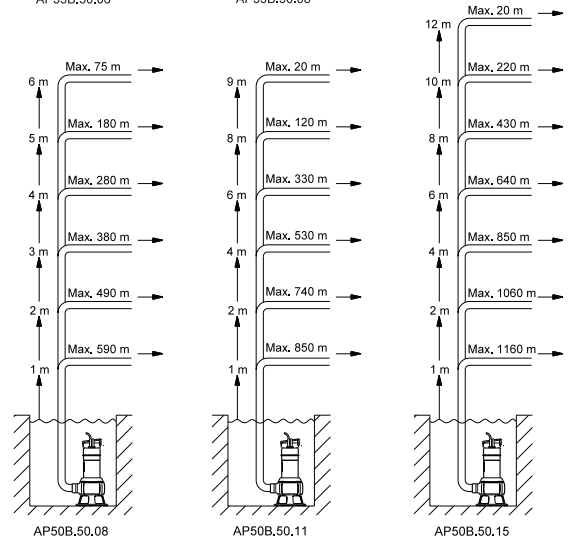
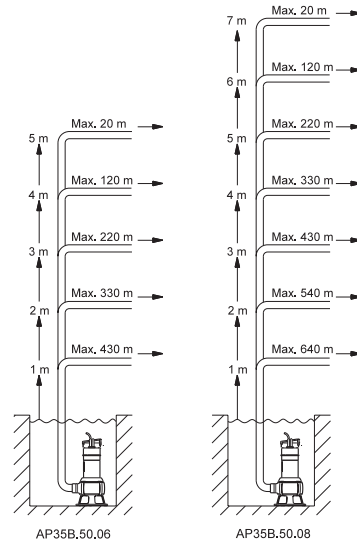
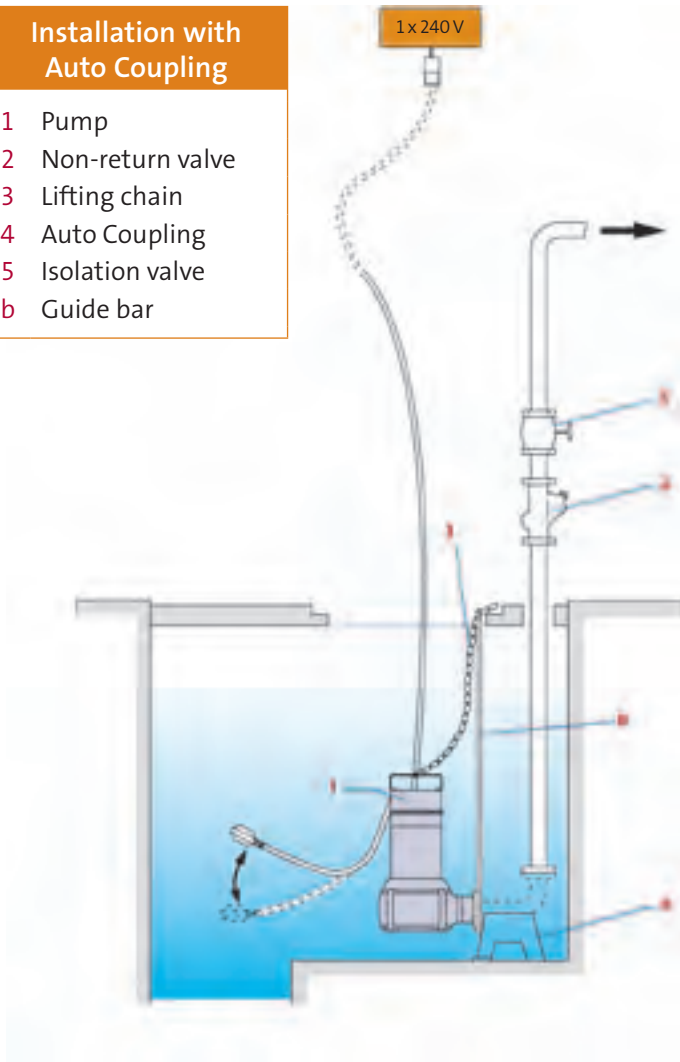
DIMENSIONS / INSTALLATION



Installation depth: max. 10 m below the water level.
In continuous operation the pump must be continuously submerged.

Installation with Auto Coupling

- 1 Pump
- 2 Non-return valve
- 3 Lifting chain
- 4 Auto Coupling
- 5 Isolation valve
- b Guide bar







HOT WATER AND HEATING

Beyond Expectations

With over 50 million Grundfos hot water or heating circulators already successfully installed around the world, you can be sure that you're in good company.

Since 1959, Grundfos has developed a series of pumps to suit every conceivable household hot water and heating need - and we continue to be the professionals' first choice pump supplier around the globe.

Add convenience and save money with heating and hot water circulation solutions from Grundfos. There are solutions for both new and existing homes.

APPLICATIONS

Home booster: the pump increases the pressure so that the required pressure is available at showers, taps etc for domestic water. The pump is used in open systems and can be connected directly to the water main.

FEATURES

- Easy installation
- Low noise
- Water-cooled system
- Leakage free
- Energy saving
- Space intelligent

CONSTRUCTION

- Stainless steel body
- Built in flow switch



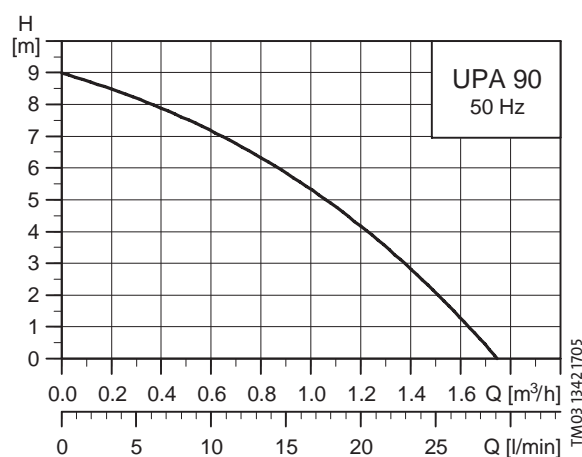
TECHNICAL FEATURES

| Model | | UPA15-90N |
|----------------------------------|----|-----------|
| Voltage | V | 240 |
| P1 | W | 120 |
| In | A | 0.48 |
| Enclosure & Insulation class | | IP42/H |
| Maximum liquid temperature | °C | 90 |
| Recommended minimum suction Head | mm | 850 |
| Port to port dimension | mm | 160 |
| Union set provided | | ¾" M |
| Net weight | kg | 2.5 |

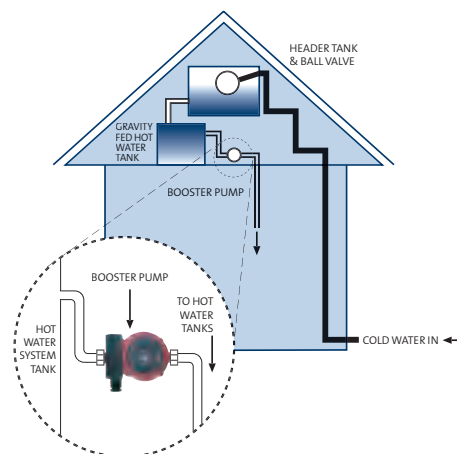
2 YEAR
WARRANTY



PERFORMANCE



INSTALLATION



UPA needs minimum inlet pressure of 0.5 m

| Selector in position | | The pump ... |
|----------------------|---------|---|
| I | Off | is switched off |
| II | Auto | starts and stops automatically |
| III | Manual* | runs continuously (also if tapping points are turned off) |

*pin must be removed for access to this setting

APPLICATIONS

Hot Water Recirculation: Grundfos Comfort system ensures that there is always hot water available when it is needed and prevents water wastage resulting from the draining of cold water.

The Grundfos Comfort system uses the cold water supply line as the “return-line” to the water heater. A Comfort pump is used to create a pressure differential that allows the cold water in the hot water supply line to by-pass (at low volume) into the cold supply line through a patented thermostatically controlled valve that is mounted under the sink furthest from the water heater.

Comfort pumps are suitable for solar hot water systems.

FEATURES

- Easy installation
- Instant hot water
- No waste of precious drinking water
- Energy effective pump with the built-in timer and thermostat (BUT model)



TECHNICAL FEATURES

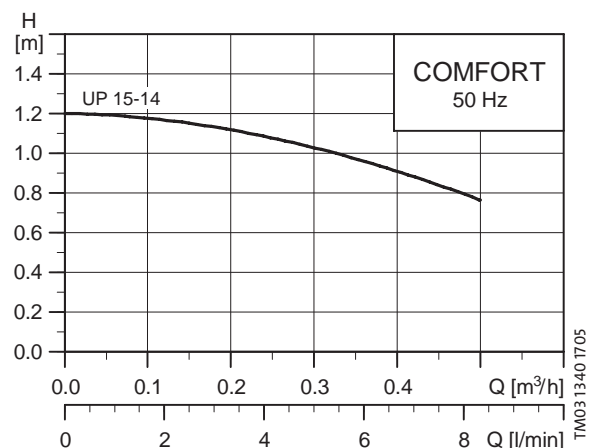
| Comfort system including the Comfort UP15-14 BUT pump (with lead, timer and thermostat) and valve kit | | |
|---|----|--------|
| Voltage | V | 240 |
| P1 | W | 25 |
| In | A | 0.11 |
| Enclosure & Insulation class | - | IP42/F |
| Pump port to port dimension | mm | 80 |
| Pump connection to pipe | - | ½" F |
| Valve Connection | - | ½" M |
| Net weight | kg | 1.16 |



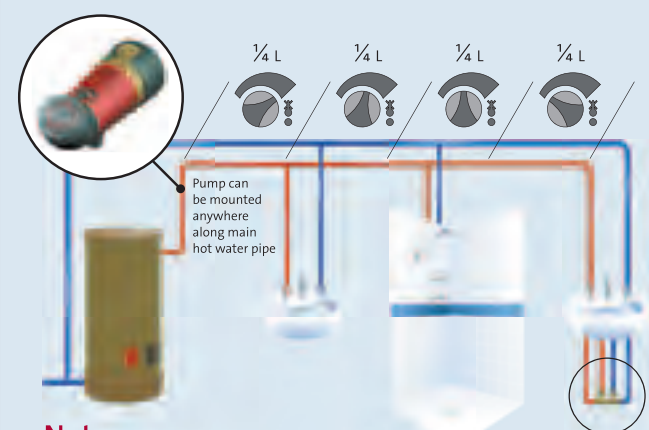
2 YEAR WARRANTY

UP15-14 BUT pump with valve kit

PERFORMANCE



INSTALLATION



Notes

- It is normal to experience a small volume of warm water at the cold tap closest to the Comfort System Valve.
- Set timer to operate 30 minutes before hot water demand and adjust thermostat accordingly.

■ Cold Water
■ Hot Water
 L Length of hot water pipe

APPLICATIONS

The UPN circulator Pumps in stainless steel are specifically designed for household hot water systems, and solar hot water applications.

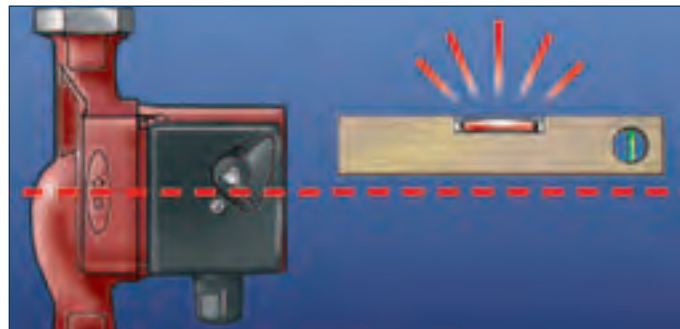
FEATURES

- Meets requirements of AS/NZS 4020 "Testing of products for use in contact with drinking water". No risk to water quality thanks to the main components being stainless steel (pump housing, bearing plate, stator and rotor can (stainless steel AISI 304)
- Interchangeable with most of the installed bronze models (150 mm port to port)
- Especially designed for hot water application
UP20-60N model can also be used with chilled water from +2 °C

TECHNICAL FEATURES

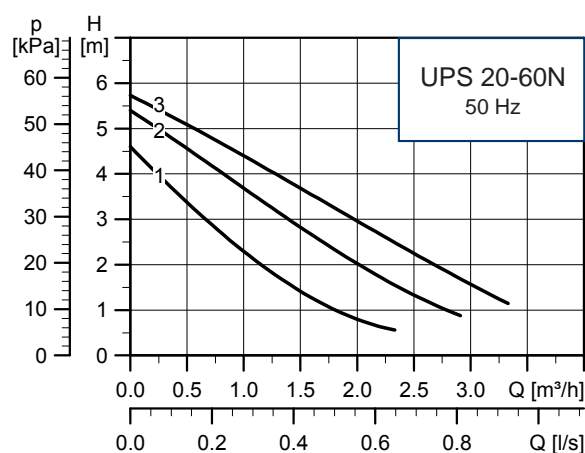
| Model | | UP20-60N |
|------------------------------|----|--------------|
| Voltage | V | 1 x 240 |
| P1 | W | 90 |
| In | A | 0.37 |
| Enclosure & Insulation class | | IP44/F |
| Liquid temperature range | °C | +2 C to +110 |
| Port to port dimension | mm | 150 |
| Union set (pn 52-99-82) | | ¾" F |
| Net weight | kg | 2.8 |

INSTALLATION

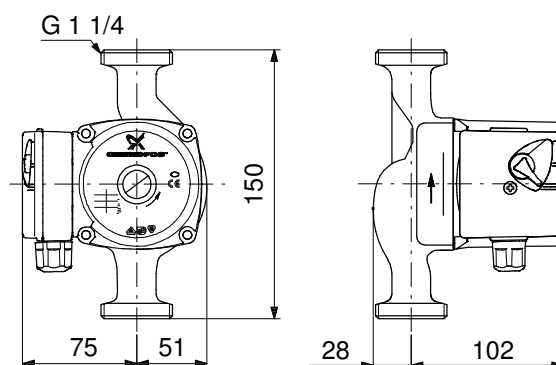


2 YEAR
WARRANTY

PERFORMANCE



DIMENSIONS



APPLICATIONS

The circulator pumps in cast iron pump housing version are specifically designed for heating systems. For underfloor heating systems, it is advisable to use the stainless steel version, type Alpha N and UPS N, as the pumped liquid may often become aerated, causing an ordinary cast iron pump housing to corrode.

FEATURES

- UPS can be operated at three speeds
- ALPHA 2 automatically controls the differential pressure by adjustment of pump performance to the actual heating demand, without the use of external components

TECHNICAL FEATURES

The ALPHA 2 and UPS pumps are of the canned rotor type, i.e. pump and motor form an integral unit without shaft seal and with only two gaskets for sealing. The bearings are lubricated by the pumped liquid.

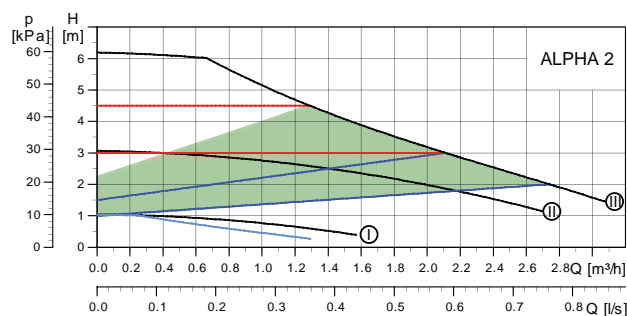
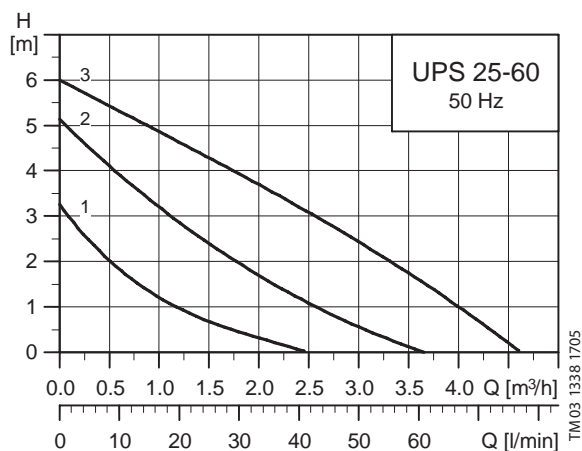
| Pumps | | UPS25-60 | ALPHA 2 25-60 |
|------------------------------|----|--------------|---------------|
| Voltage | V | 1 x 240 | 1 x 240 |
| P1 (max speed) | W | 105 | 90 |
| In | A | 0.44 | 0.40 |
| Enclosure & Insulation class | | IP44/F | IP42/F |
| Liquid temperature range | °C | +2 C to +110 | +2 C to +110 |
| Port to port dimension | mm | 130 or 180 | 180 |
| Union set | | 1"F | 1"F |
| Net weight | kg | 2.6 | 2.6 |

INSTALLATION



UPS and ALPHA 2

PERFORMANCE







HOUSEHOLD B-LINE

Performance, Quality and Value

This range of high quality and robust pumps are manufactured for use in private dwellings, farms and small industry. Hardwearing materials and reliable design ensures long product life and years of trouble-free operation.



APPLICATIONS

Ideal for one or multiple tap outlets to your garden, toilet and laundry, the Grundfos JPRain range offers a reliable solution to help you utilise your collected rainwater in the best possible way.

FEATURES



- 3 models: JPRain, JPRain MP, JPRain PT
- Self priming from bore and rainwater tank
- Strong suction capacity
- Automatic on/off switch
- Built in thermal protection
- Suitable for above or underground rainwater tanks
- Handles small sandy impurities with ease

CONSTRUCTION

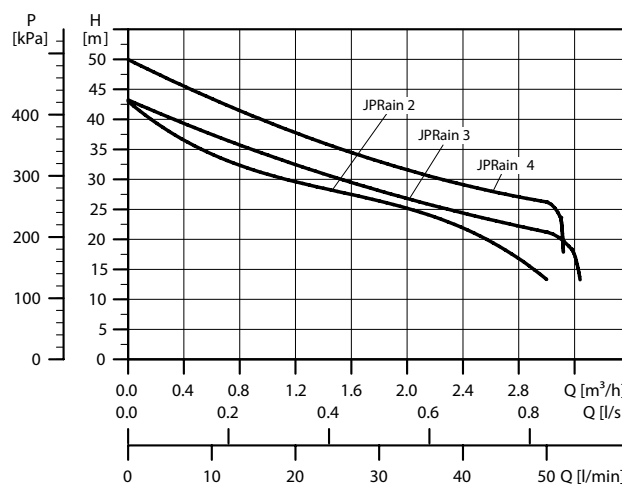
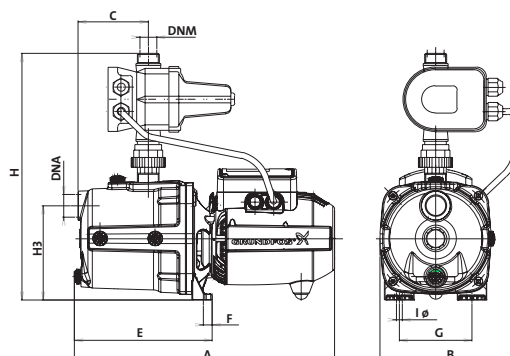
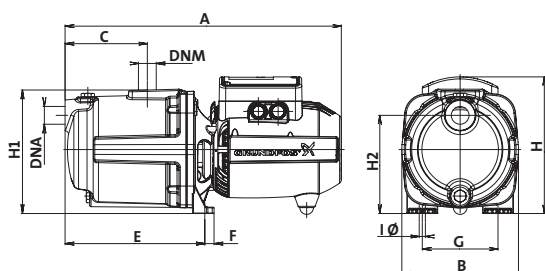
- Technopolymer pump body
- Carbon/ceramic mechanical seal
- AISI 304 stainless steel shaft
- 1 x 240V, IP44 motor
- Insulation Class F, with built-in overload protection

PERFORMANCE

| Pumps | Discharge Pressure (kPa/psi) - based on zero suction lift | | | | | | |
|----------------|---|-----|-----|-----|-----|-----|-----|
| | 150 | 200 | 250 | 300 | 350 | 400 | 500 |
| | 22 | 29 | 36 | 44 | 51 | 58 | 72 |
| Output (l/min) | | | | | | | |
| JPRain 2 PT08 | 46 | 39 | 30 | - | - | - | - |
| JPRain 3 PT18 | - | 58 | 40 | 29 | - | - | - |
| JPRain 4 PT18 | - | - | 58 | 44 | 29 | - | - |
| JPRain 2 MP | 40 | 34 | 26 | - | - | - | - |
| JPRain 3 MP | - | 51 | 35 | 26 | - | - | - |
| JPRain 4 MP | - | - | 51 | 39 | 26 | - | - |

As a guide 1 tap  = 10 litres per minute • 1 sprinkler  = 15 litres per minute

DIMENSIONS



Bare pumps only - there is a pressure drop when using the MP versions.

TECHNICAL FEATURES

JPRain The JPRain without any automatic controllers will operate manually by switching the pump on and off at the power point.

| Pump type | Dimensions (mm) | | | | | | | | | | | |
|-----------|-----------------|-----|-----|-----|-----|----|-----|-----|-----|----------------|------|------|
| | A | A1 | B | C | E | F | G | H | H3 | I _ø | DNA | DNM |
| JPRain 2 | 410 | 390 | 178 | 122 | 192 | 14 | 111 | 200 | 144 | 9 | Rp 1 | Rp 1 |
| JPRain 3 | 410 | 390 | 178 | 122 | 192 | 14 | 111 | 200 | 144 | 9 | Rp 1 | Rp 1 |
| JPRain 4 | 429 | 409 | 178 | 122 | 197 | 14 | 111 | 213 | 144 | 9 | Rp 1 | Rp 1 |

JPRain MP The JPRain MP is a complete system which automatically switches on and off according to demand. The controller also has dry run protection to stop the pump if the tank runs dry. When small system leaks are present the MP will prevent cycling of the pump.

| Pump type | Dimensions (mm) | | | | | | | | | | |
|-------------|-----------------|-----|-----|-----|----|-----|----------------|-----|-----|------|------|
| | A | B | C | E | F | G | I _ø | H | H3 | DNA | DNM |
| JPRain 2 MP | 410 | 212 | 122 | 192 | 14 | 111 | 9 | 360 | 144 | Rp 1 | Rp 1 |
| JPRain 3 MP | 410 | 212 | 122 | 192 | 14 | 111 | 9 | 360 | 144 | Rp 1 | Rp 1 |
| JPRain 4 MP | 429 | 212 | 122 | 197 | 14 | 111 | 9 | 360 | 144 | Rp 1 | Rp 1 |

JPRain PT The JPRain PT fitted with a pressure switch and tank will start and stop automatically when a tap is opened or closed. The system will draw water from the pressure tank first when only a small amount of water is needed. JPRain PT is supplied with a non-return valve which is to be fitted to the pump inlet.

| Pump type | Dimensions (mm) | | | | | | | | | | |
|-------------|-----------------|-----|-----|-----|----|-----|----------------|-----|-----|------|------|
| | A | B | C | E | F | G | I _ø | H | H3 | DNA | DNM |
| JPRain 2 PT | 410 | 212 | 122 | 192 | 14 | 111 | 9 | 570 | 144 | Rp 1 | Rp 1 |
| JPRain 3 PT | 410 | 212 | 122 | 192 | 14 | 111 | 9 | 570 | 144 | Rp 1 | Rp 1 |
| JPRain 4 PT | 429 | 212 | 122 | 197 | 14 | 111 | 9 | 570 | 144 | Rp 1 | Rp 1 |

| Pump type | Voltage (V) | | | | | | |
|-----------|-------------|----------------------------|------------------------|------------------------|-----------------------|-----------|-----|
| | | P ₁ Max [kW] | P ₂ [kW] | P ₂ [hp] | I _ø [A] | Capacitor | |
| JPRain 2 | 1 x 240 | 0.72 | 0.44 | 0.6 | 3.12 | 12.5 | 450 |
| JPRain 3 | 1 x 240 | 0.85 | 0.60 | 0.8 | 3.4 | 12.5 | 450 |
| JPRain 4 | 1 x 240 | 1.13 | 0.75 | 1.0 | 4.7 | 16.0 | 450 |



APPLICATIONS

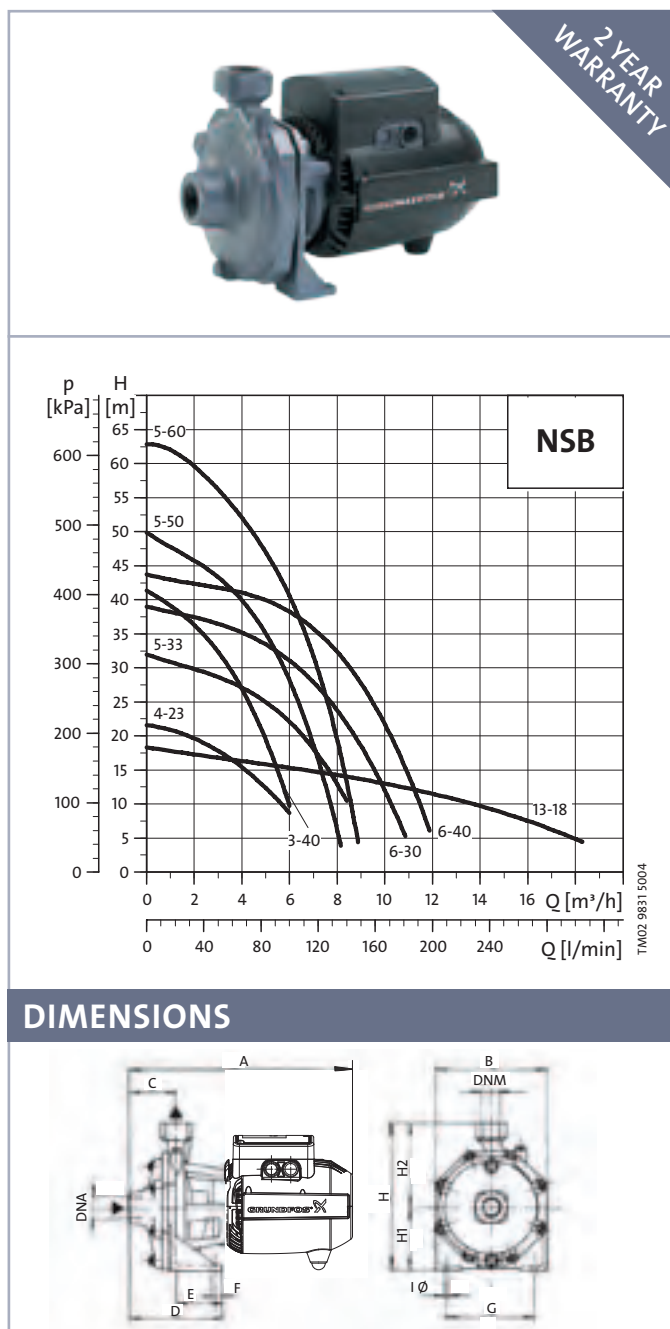
The single phase NSB range are ideally suited for water transfer, pressure boosting, tank filling, wash down applications and reticulation irrigation.

FEATURES

- Wide range - single and twin impeller models
- Heavy duty design for long life
- Compact and easily adapted to existing installation
- Easy installation: supplied with lead and plug
- Low noise level, quiet operation

CONSTRUCTION

- Cast iron pump body and motor support treated against corrosion
- Technopolymer impeller. Carbon/ceramic mechanical seal mounted on stainless steel rotor shaft extension
- Motor: Rotor mounted on oversized greased sealed-for-life ball bearing. Built-in thermal and current overload protection
- 1 x 240 V, 50 Hz, 2 poles, 2900 rpm, IP44, Class F



DIMENSIONS

TECHNICAL FEATURES / PERFORMANCE

| Pumps | 1x240V | | Water temp (°C) | Connections | | Dimensions (mm) | | | Weight | Discharge Pressure (kPa/psi) | | | | | | | | |
|----------|---------|--------|--------------------|-------------|--------|-----------------|-----|-----|--------|------------------------------|----------------|-----|-----|-----|-----|-----|-----|----|
| | | | | | | | | | | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 500 | |
| | P2 (kW) | In (A) | | inlet | outlet | A | B | H | | (kg) | 15 | 22 | 29 | 36 | 44 | 51 | 58 | 72 |
| | | | | | | | | | | | Output (l/min) | | | | | | | |
| NSB4-23 | 0.37 | 3 | 0/50 | 1"F | 1"F | 275 | 160 | 205 | 10.3 | 92 | 69 | 24 | - | - | - | - | - | |
| NSB5-33 | 0.75 | 6 | 0/50 | 1"F | 1"F | 300 | 185 | 235 | 14.7 | - | 123 | 107 | 84 | 20 | - | - | - | |
| NSB13-18 | 0.75 | 4.6 | 0/50 | 1 ½"F | 1 ½"F | 312 | 169 | 210 | 14 | 237 | 105 | - | - | - | - | - | - | |
| NSB3-40 | 0.75 | 5.5 | 0/50 | 1"F | 1"F | 342 | 180 | 235 | 16.1 | - | 90 | 83 | 72 | 55 | 38 | - | - | |
| NSB5-50 | 1.10 | 8.3 | 0/50 | 1 ¼"F | 1"F | 370 | 210 | 268 | 23.3 | 127 | 118 | 112 | 106 | 92 | 82 | 62 | - | |
| NSB5-60 | 1.85 | 12.8 | 0/50 | 1 ¼"F | 1"F | 370 | 210 | 268 | 23.8 | - | 137 | 131 | 123 | 117 | 110 | 100 | 71 | |
| NSB6-30 | 1.10 | 7.1 | 0/50 | 1 ½"F | 1"F | 387 | 205 | 233 | 21.5 | 172 | 156 | 144 | 127 | 103 | 59 | - | - | |
| NSB6-40 | 1.85 | 9 | 0/50 | 1 ½"F | 1"F | 461 | 205 | 233 | 25.9 | 190 | 178 | 170 | 154 | 140 | 118 | 73 | - | |

As a guide 1 tap = 10 litres per minute • 1 sprinkler = 15 litres per minute

APPLICATIONS

Ideal for emptying ponds, fountains, swimming pools, for pumping water from septic tanks and for drainage jobs in and around home and garden.

FEATURES

- Float switch for automatic pump operation
- Easy to handle
- Built-in thermal protection (1 x 240 V)
- KPB Vortex 330 handles particles up to 25 mm

CONSTRUCTION

- Technopolymer pump body and impeller
- Submersible motor 1 x 240 V, IP68, Class F, with built-in overload protection and capacitor

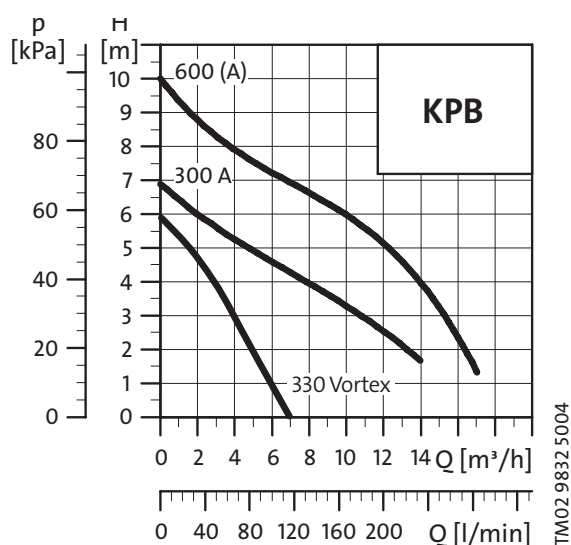


TECHNICAL FEATURES / PERFORMANCE

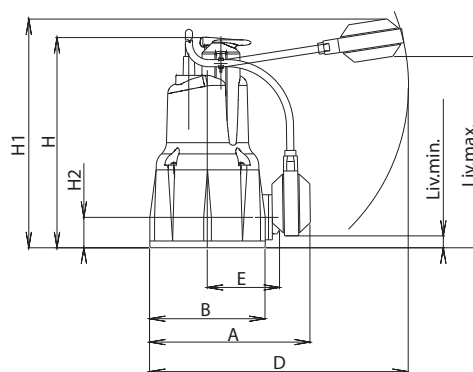
| Pumps | Cable (m) | P2 (kW) | 1 ph In (A) | Water temp (°C) | Outlet | Dimensions | | | | Weight (kg) | I/min | 0 | 50 | 100 | 150 | 200 | 250 |
|----------------|-----------|---------|-------------|-----------------|----------|------------|-----|-----|-----|-------------|--------|----|-----|-----|-----|-----|-----|
| | | | | | | A | B | D | H | | m³/h | 0 | 3 | 6 | 9 | 12 | 15 |
| KPB300A | 5 | 0.22 | 1.5 | 0/35 | 1 1/4" F | 185 | 140 | 225 | 275 | 4.5 | m/Head | 7 | 5.5 | 4.6 | 3.7 | 2.5 | - |
| KPB600A | 5 | 0.55 | 3.4 | 0/35 | 1 1/4" F | 200 | 160 | 225 | 376 | 6.7 | | 10 | 8.3 | 7.2 | 6.3 | 5.2 | 3.3 |
| KPB Vortex 330 | 5 | 0.18 | 0.9 | 0/40 | 1 1/4" F | 205 | 165 | 250 | 300 | 4.5 | | 6 | 4 | 1 | - | - | - |



KPB 600A, KPB300A and KPB Vortex 330



DIMENSIONS



| WHAT PUMP DO I NEED? | | 1 |
|--|--------------------------------------|---|
| Application | Household water supply | |
| | Drainage | |
| | Irrigation | |
| | Water transfer | |
| | Other | |
| | | |
| Water source | Above ground tank | |
| | Underground tank | |
| | River | |
| | Dam | |
| | Other | |
| Power supply | 240 V single phase | |
| | 415 V three phase | |
| Water requirement | Household | |
| | House only | |
| | House and garden | |
| | Showers (number) | |
| | Sprinklers (number) | |
| | Sprinklers (type) | |
| | Evaporative airconditioner connected | |
| | Irrigation | |
| | Sprinklers (number) | |
| | Sprinklers (type) | |
| | Automatic Operation | |
| | Manual Operation | |
| | Drainage and Water transfer | |
| Lift from pump (A) to point of discharge (B) | | |
| Details of existing pipeline | Size (mm) | |
| | Type (Polyethylene/PVC/Copper/Steel) | |
| | Length (m) | |

| HOW MUCH FLOW (Q)? | | 2 |
|-------------------------------------|-----|--------------------------|
| Water pressure systems | ✓ | |
| Weekend cottage | | 10 to 20 L/min |
| Small home | | 20 to 30 L/min |
| Average home | | 30 to 50 L/min |
| Large home | | 50 to 90 L/min |
| Average water consumption | No. | |
| Standard shower head | | 15 L/min |
| Water saving shower head | | 6-7 L/min |
| Household standard tap | | 10-15 L/min |
| Tap with aerator or flow restrictor | | 4-6 L/min |
| Lawn sprinkler | | 10-15 L/min |
| Drainage and effluent | | See your Grundfos dealer |

| CALCULATE THE FLOW RATE | | 3 |
|-------------------------|--|---|
| Q = () L/min | | |

HOW MUCH PRESSURE (P)?

4

P = Pump Head

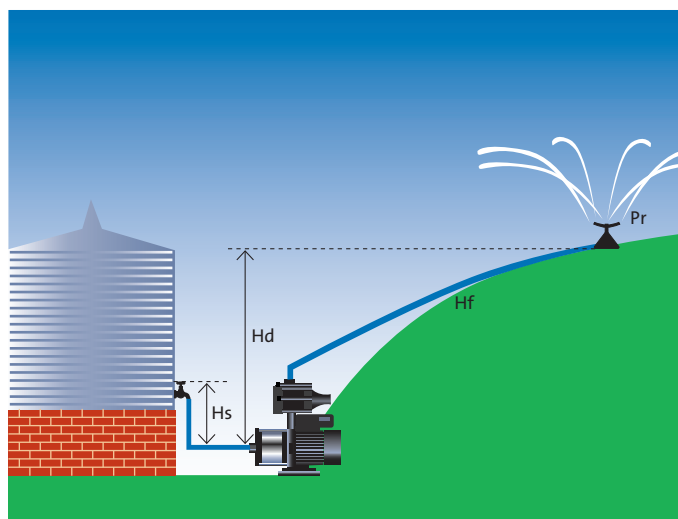
Hd = Height difference between the pump and the highest point of use

Hs = Pressure already available at the pump level (tank example with positive suction head). If you pump water under the level of the pump (well, river, underground tank), contact your Dealer in order to calculate the suction lift and to select the right pump.

Hf = Friction loss or pipe resistance to water flow (see chart at right for Poly Pipe friction loss)

Pr = Residual pressure, i.e. the required pressure at the tap, shower or sprinkler. As a guide, shower head, standard ½" tap or sprinkler requires approx. 150 kPa (15 m or 21 psi)

| Flow Rate | | | Friction loss - PN12.5 High Density Polyethylene pipe (m/100 metres of pipe) | | | | | |
|-----------|--------------------|-------|---|-------|-------|-------|-------|-------|
| L/min | m ³ /hr | L/sec | 20 mm | 25 mm | 32 mm | 40 mm | 50 mm | 63 mm |
| 12 | 0.7 | 0.2 | 10.9 | 3.7 | 1.1 | 0.4 | 0.1 | - |
| 24 | 1.4 | 0.4 | | 13.4 | 3.9 | 1.3 | 0.4 | 0.1 |
| 36 | 2.2 | 0.6 | | | 8.3 | 2.8 | 0.9 | 0.3 |
| 48 | 2.9 | 0.8 | | | 14.2 | 4.8 | 1.6 | 0.5 |
| 60 | 3.6 | 1 | | | | 7.2 | 2.4 | 0.8 |
| 72 | 4.3 | 1.2 | | | | 10.1 | 3.3 | 1.1 |
| 84 | 5.0 | 1.4 | | | | 13.5 | 4.4 | 1.5 |
| 96 | 5.8 | 1.6 | | | | | 5.7 | 1.9 |
| 108 | 6.5 | 1.8 | | | | | 7.1 | 2.3 |
| 120 | 7.2 | 2 | | | | | 8.6 | 2.8 |



CALCULATE THE PRESSURE

5

$$P = (\quad) Hd - (\quad) Hs + (\quad) Hf + (\quad) Pr$$

Example

Q (Flow rate) = 60 L/min = 4 (sprinklers) x 15 L/min

Hs = 2 m

Hd = 15 m

Hf = 3.6 m

(50 m of 40 mm Poly Pipe - see Friction Loss Chart above)

Pr = 15 m (150 kPa)

P = 15 - 2 + 3.6 + 15 = 31.6 m = 310 kPa = 44 psi

USEFUL CONVERSION

| To | | Flow Conversion | | | | | | | |
|----------------------|---|---------------------|---|-------------------|---|--------------------------|---|-----------------|--|
| From | | litres per minute | | litres per second | | cubic metres per hour | | gallons per min | |
| 1 L/min | = | 1 | = | 0.017 | = | 0.06 | = | 0.22 | |
| 1 m ³ /hr | = | 16.7 | = | 0.28 | = | 1 | = | 3.7 | |
| 1 L/sec | = | 60 | = | 1 | = | 3.6 | = | 13.2 | |
| 1 gpm | = | 4.5 | = | 0.076 | = | 0.27 | = | 1 | |
| Example | | | | | | | | | |
| 60 L/min | = | 60 L/min | = | 1 L/sec | = | 3.6 m ³ /h | = | 13.2 gpm | |
| To | | Pressure Conversion | | | | | | | |
| From | | metres of head | | kilopascal | | pounds/inch ² | | bar | |
| 1 m | = | 1 | = | 9.8 | = | 1.4 | = | 0.1 | |
| 1 kPa | = | 0.1 | = | 1 | = | 0.14 | = | 0.01 | |
| 1 psi | = | 0.7 | = | 6.9 | = | 1 | = | 0.07 | |
| 1 bar | = | 10.2 | = | 100 | = | 14.5 | = | 1 | |
| Example | | | | | | | | | |
| 200 kPa | = | 20 m | = | 200 kPa | = | 28 psi | = | 2 bar | |

[illegible]

BE > THINK > INNOVATE >

Being responsible is our foundation
Thinking ahead makes it possible
Innovation is the essence

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