

Unilift CC 5, CC 7, CC 9

Installation and operating instructions
50 and 60 Hz



English (GB) Installation and operating instructions

Original installation and operating instructions

These installation and operating instructions describe Grundfos Unilift CC 5, CC 7 and CC 9.

Sections 1-3 give the information necessary to be able to unpack, install and start up the product in a safe way.

Sections 4-8 give important information about the product, as well as information on service, fault finding and disposal of the product.

CONTENTS

| | Page |
|---|-----------|
| 1. General information | 2 |
| 1.1 Symbols used in this document | 2 |
| 2. Installing the product | 3 |
| 2.1 Location | 3 |
| 2.2 Mechanical installation | 4 |
| 2.3 Electrical connection | 6 |
| 3. Starting up the product | 6 |
| 3.1 Venting the product | 7 |
| 3.2 Manual operation | 7 |
| 3.3 Automatic operation with float switch | 7 |
| 3.4 Pumping to low water level | 7 |
| 3.5 Thermal protection | 7 |
| 4. Product introduction | 8 |
| 4.1 Product description | 8 |
| 4.2 Intended use | 8 |
| 4.3 Pumped liquids | 8 |
| 4.4 Identification | 8 |
| 5. Servicing the product | 9 |
| 5.1 Maintaining the product | 9 |
| 5.2 Service kits | 9 |
| 6. Fault finding the product | 10 |
| 7. Technical data | 11 |
| 7.1 Operating conditions | 11 |
| 7.2 Electrical data | 11 |
| 7.3 Mechanical data | 12 |
| 7.4 Dimensions and weights | 12 |
| 8. Disposing of the product | 12 |



Read this document and the quick guide before installing the product. Installation and operation must comply with local regulations and accepted codes of good practice.



This appliance can be used by children aged from 8 years and above and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

1. General information

1.1 Symbols used in this document

1.1.1 Warnings against hazards involving risk of death or personal injury

DANGER



Indicates a hazardous situation which, if not avoided, will result in death or serious personal injury.

WARNING



Indicates a hazardous situation which, if not avoided, could result in death or serious personal injury.

CAUTION



Indicates a hazardous situation which, if not avoided, could result in minor or moderate personal injury.

The text accompanying the three hazard symbols DANGER, WARNING and CAUTION is structured in the following way:

SIGNAL WORD



Description of hazard

Consequence of ignoring the warning.
- Action to avoid the hazard.

1.1.2 Other important notes



A blue or grey circle with a white graphical symbol indicates that an action must be taken.



If these instructions are not observed, it may result in malfunction or damage to the equipment.



Tips and advice that make the work easier.

2. Installing the product



Observe local regulations setting limits for manual lifting or handling.

CAUTION



Crushing of feet

Minor or moderate personal injury
- Use safety shoes when handling the pump.



Make sure that the system in which the pump is incorporated is designed for the maximum pump pressure.



The pump has been evaluated for use with water only

2.1 Location

Unilift CC 5, CC 7 and CC 9 pumps are suitable for both stationary and portable use.

| Pump type | Location | Length of cable [m] |
|---|----------------------|---------------------|
| Unilift CC 5, 50 Hz | Indoors | 5 |
| Unilift CC 7, 50 Hz Unilift CC 9, 50 Hz | Indoors and outdoors | 10 |
| Unilift CC 5, 60 Hz Unilift CC 7, 60 Hz Unilift CC 9, 60 Hz | Indoors and outdoors | 10 |



Unilift CC 5 50 Hz is intended for indoor use only



Make sure that there are minimum 3 m free cable above the liquid level. This limits the maximum installation depth to 7 m for pumps with 10 m cable and to 2 m for pumps with 5 m cable.

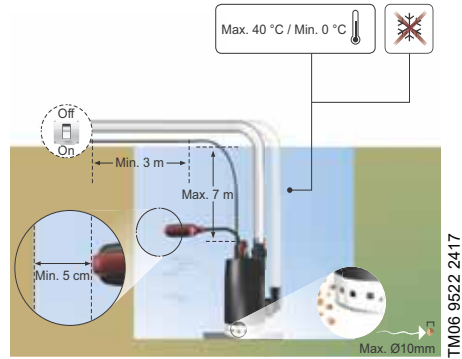


Fig. 1 Location of pump

2.1.1 Minimum space

Pumps installed without float switch require space that corresponds to the physical dimensions of the pump.

Minimum space with float switch

Pumps installed with float switch require 5 cm free space between the float switch and the wall. The free space ensures free movability of the float switch.

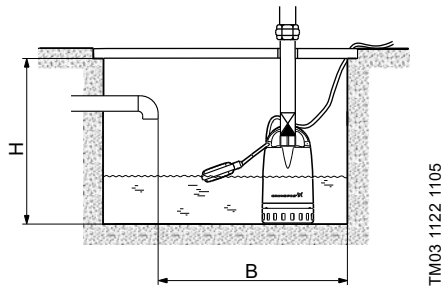


Fig. 2 Minimum pit dimension with float switch

Minimum pit dimension with float switch:

| Pump type | Height (H) [mm] (top outlet port) | Height (H) [mm] (side outlet port) | Width (B) [mm] |
|------------------------------|-----------------------------------|------------------------------------|----------------|
| Unilift CC 5 Unilift CC 7 | 520 | 350 | 400 |
| Unilift CC 9 | 570 | 400 | 500 |

Minimum space with lever arm

If supplied with a lever arm, the Unilift CC pump can be installed in a narrow pit.

The minimum dimensions for a narrow pit are 300 x 350 mm.

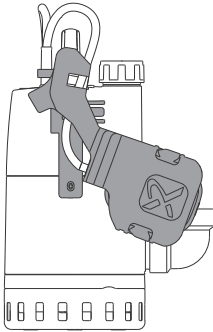


Fig. 3 Unilift CC with lever arm

2.2 Mechanical installation

2.2.1 Foundation

Place the pump on a plate or on bricks so that the inlet strainer is free of silt, mud or similar materials.

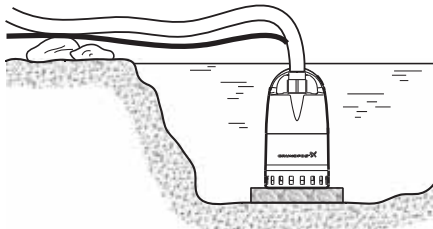


Fig. 4 Pump mounted on a plate

2.2.2 Lifting the product

Lift the pump by the lifting handle. Never lift the pump by the power cable. Tie a rope to the lifting handle instead.

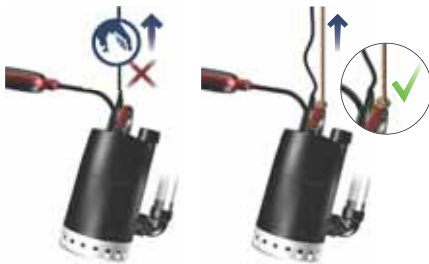


Fig. 5 Lifting the pump

2.2.3 Positioning the product

The pump can be placed in three positions: vertical, tilted or horizontal. The outlet port must always be the highest point of the pump. During operation, the inlet strainer must be covered by the pumped liquid to ensure efficient cooling.

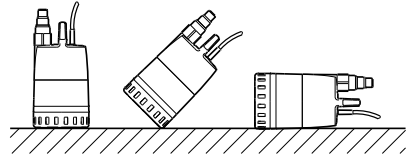


Fig. 6 Pump positions

2.2.4 Connecting the outlet pipe

The outlet pipe can be connected to the pump outlet port on the top or the side by means of an adapter. Use the 90° adaptor for the side outlet port.

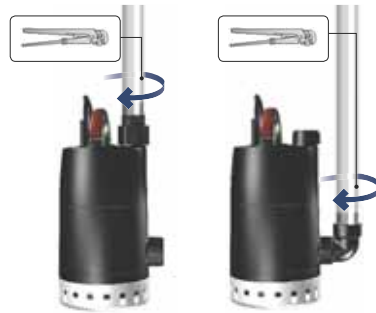


Fig. 7 Connecting the outlet pipe

The adapter enables connection of a pipe or hose matching 3/4", 1" and 1 1/4" external pipe thread (G). Cut off the adapter so that it matches the outlet pipe diameter. If a system gasket is used between the outlet pipe and the adapter, the cut-off adapter must have an even and smooth surface.

The approval according to DIN EN 12056-4 stipulates that the outlet pipe from the fixed installation must be connected directly to the pump outlet port. If the adapter supplied with the pump is to be used, cut off the 3/4" and 1" sockets.

2.2.5 Connecting the non-return valve

To prevent backflow through the pump when it stops, fit the non-return valve supplied in the adapter. The non-return valve is fixed when the adapter is fitted to the pump top outlet port.

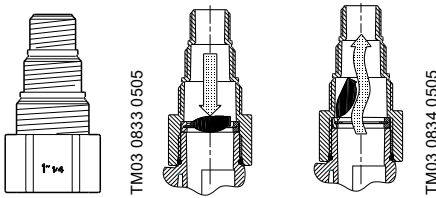


Fig. 8 Adapter position and non-return valve function

2.2.6 Using the side outlet port

If you want to use the side outlet port, proceed as follows:

1. Remove the non-return valve and adapter from the top outlet port.
2. Remove the side plug and screw it on the top outlet port.
3. Fit the 90 ° bend adapter in the side outlet port. Use thread sealing tape or similar material.
4. Fit the non-return valve in the vertical part of the 90 ° bend.
5. Connect the outlet line directly to the outlet port.



Position the non-return valve in the vertical part of the 90 ° bend. If positioned in the horizontal part of the 90 ° bend, the non-return valve may not function correctly.

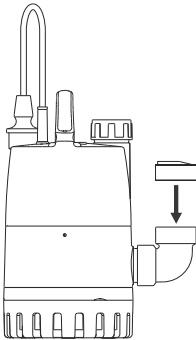


Fig. 9 Correct position of non-return valve

2.2.7 Adjusting the float switch cable length

To make sure that the float switch can start and stop the pump, the free cable length must be min. 100 mm and max. 200 mm. Adjust the start and stop level by changing the free cable length between the float switch and the lifting handle.

- An increased free cable length results in fewer starts and stops and a large difference in level.
- A reduced free cable length results in more starts and stops and a small difference in level.

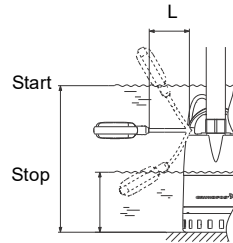


Fig. 10 Start and stop levels with float switch at minimum and maximum cable lengths

| Pump type | Cable length (L) min. 100 mm | | Cable length (L) max. 200 mm | |
|---------------------|---------------------------------|--------------|---------------------------------|--------------|
| | Start [mm] | Stop [mm] | Start [mm] | Stop [mm] |
| Unilift CC 5 | 350 | 115 | 400 | 55 |
| Unilift CC 7 | 350 | 115 | 400 | 55 |
| Unilift CC 9 | 385 | 150 | 435 | 90 |

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TM06 0696 0714

2.2.8 Lever arm start and stop levels

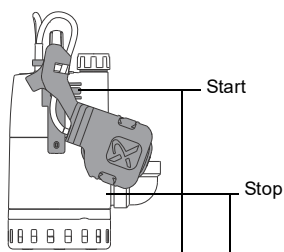


Fig. 11 Start and stop levels with lever arm

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Start and stop levels with lever arm

| Pump type | Start [mm] | Stop [mm] |
|--------------|------------|-----------|
| Unilift CC 5 | 211 | 89 |
| Unilift CC 7 | 211 | 89 |
| Unilift CC 9 | 247 | 125 |

2.3 Electrical connection



Carry out the electrical connection according to local regulations.

DANGER

Electric shock



Death or serious personal injury
- Switch off the power supply before starting any work on the product. Make sure that the power supply cannot be accidentally switched on.

- Check that the supply voltage and frequency of the installation site correspond to the values stated on the nameplate.
- Make sure that it is possible to make a good earth connection.
- Pumps with plug: connect the plug to the power outlet.
- Pumps without plug: connect the pump permanently to the fixed wiring as described below.

DANGER

Electric shock



Death or serious personal injury
- Connect pumps without plug permanently to the fixed wiring via an external main switch with a minimum contact gap of 3 mm in all poles.

DANGER

Electric shock

Death or serious personal injury
- The pump must be earthed.
- The protective earth of the power outlet must be connected to the protective earth of the pump. The plug must therefore have the same PE connection system as the power outlet. If not, use a suitable adapter.



DANGER

Electric shock

Death or serious personal injury
- The installation must be fitted with a residual current device (RCD) with a tripping current less than 30 mA.



DANGER

Electric shock

Death or serious personal injury
- If the pump is used for cleaning or other maintenance of swimming pools, garden ponds or similar places, make sure that the pump is supplied through a residual-current circuit breaker with a rated residual operating current of 30 mA.



3. Starting up the product

WARNING

Flammable material

Death or serious personal injury
- Do not use the pump for flammable liquids, such as diesel oil, petrol or similar liquids.



DANGER

Electric shock

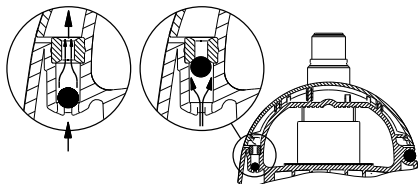
Death or serious personal injury
- Do not use the pump in swimming pools, garden ponds or similar places if there are people in the water.



3.1 Venting the product

The pump is self-venting. A vent valve is built into the lifting handle. The valve allows air to escape from the pump in case the free air flow through the outlet pipe is blocked. Once the pump is vented, the valve normally closes.

If the pump sucks air or water with a high air content, the valve may leak a mixture of air and water. This is no fault but a natural consequence of the opening and closing of the valve.



TM03 1121 1105

Fig. 12 Vent valve

3.2 Manual operation

Start and stop the pump via an external switch.

To eliminate the risk of dry running, check the water level regularly during operation. This can for instance be done by means of an external level controller.

In order for the pump to be able to self-prime when started, the water level must be at least 25 mm.

When the pump sucks water, it can pump down to 20 mm water level.

3.3 Automatic operation with float switch

During automatic operation, the pump will start and stop, depending on the water level and the float switch position and cable length.

3.3.1 Forced operation of pump with float switch

If the pump is used to drain water below the stop level of the float switch, the float switch can be kept in a higher position by fixing it to the outlet pipe.

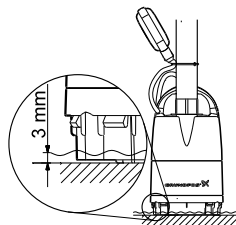
During forced operation, the water level must be checked regularly to prevent dry running.

3.4 Pumping to low water level

The pump can pump down to 3 mm when the inlet strainer is removed.

These conditions must be fulfilled:

- The inlet strainer must be removed.
- The pump must be placed on an even, horizontal surface.
- The water must not contain particles which may block the pump inlet.
- The water level must be minimum 5 mm when the pump is started.

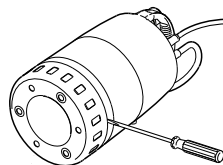


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Fig. 13 Low water level

Removing the inlet strainer

To remove the inlet strainer, insert a screwdriver between the pump sleeve and the inlet strainer and turn it.



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Fig. 14 Removal of inlet strainer

3.5 Thermal protection

If the pump is running without water, or if it is otherwise overloaded, the built-in thermal switch will cut out.

When the motor has cooled to normal temperature, it will restart automatically.

4. Product introduction

4.1 Product description

4.1.1 Unilift CC 5, CC 7 and CC 9 pumps

Grundfos Unilift CC 5, CC 7 and CC 9 pumps are single-stage submersible pumps designed for manual or automatic operation. The pumps are self-venting and incorporate a vent valve.

The Unilift CC pumps are available with or without a float switch. If supplied with a lever arm, the pump can be installed in a narrow pit.

Pump with float switch

- Automatic start and stop.
- Can pump to low water level during forced operation when the inlet strainer is removed.

Pump without float switch

- Manual external start and stop.
- Can pump to low water level when the inlet strainer is removed.

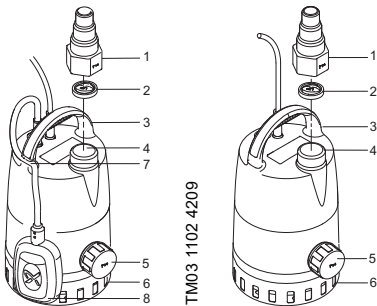


Fig. 15 Pump with and without float switch

1. Adapter
2. Non-return valve
3. Lifting handle
4. Top outlet port
5. Side outlet port and plug
The side outlet port is plugged from factory.
6. Inlet strainer
7. Clamp
8. Float switch.

4.2 Intended use

Grundfos Unilift CC 5, CC 7 and CC 9 pumps are designed for both stationary and portable use. Typical applications are pumping rainwater and grey wastewater from sources such as the following:

- washing machines, baths, sinks, etc. from low-lying parts of buildings up to sewer level
- cellars or buildings prone to flooding
- drainage wells
- tanks for surface water with inlets from roof gutters, pits, tunnels, etc.
- swimming pools, ponds or fountains.

Unilift CC 5 is for indoor use only. Unilift CC 7 and CC 9 are suitable for both indoor and outdoor use.

4.3 Pumped liquids

Grundfos Unilift CC 5, CC 7 and CC 9 pumps are designed for pumping rainwater and grey wastewater without fibres.

The pump is **not** suitable for these liquids:

- liquids containing long fibres
- inflammable liquids (oil, petrol, etc.)
- aggressive liquids.

4.4 Identification

4.4.1 Nameplate

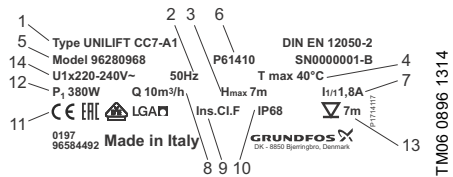


Fig. 16 Example of nameplate

| Pos. | Description |
|------|--|
| 1 | Pump type |
| 2 | Frequency |
| 3 | Maximum head |
| 4 | Maximum liquid temperature during continuous operation |
| 5 | Product number |
| 6 | Production code |
| 7 | Full-load current |
| 8 | Maximum flow rate |
| 9 | Motor insulation class |
| 10 | Enclosure class |
| 11 | Approvals |
| 12 | Motor input power |
| 13 | Maximum installation depth |
| 14 | Supply voltage |

5. Servicing the product

5.1 Maintaining the product

Under normal operating conditions, the pump is maintenance-free.

If the pump has been used for liquids other than clean water, it must be flushed through with clean water immediately after use.

5.1.1 Procedure

DANGER

Electric shock



Death or serious personal injury
- Switch off the power supply before starting any work on the product. Make sure that the power supply cannot be accidentally switched on.

DANGER

Electric shock



Death or serious personal injury
- If the power supply cable is damaged, it must be replaced by the manufacturer, his service agent or similarly qualified persons in order to avoid hazard.



Service must be performed by trained service staff.

Cleaning the inlet strainer

1. Switch off the power supply to the pump.
2. Drain the pump.
3. Loosen the inlet strainer. Insert a screwdriver between the pump sleeve and the strainer and turn the screwdriver.
4. Clean and refit the inlet strainer.

Cleaning the impeller

1. Switch off the power supply to the pump.
2. Loosen the inlet strainer. Insert a screwdriver between the pump sleeve and the strainer and turn the screw driver.
3. Remove the bottom part.

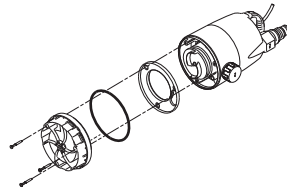


Fig. 17 Removal of bottom part

4. Remove and clean the diaphragm.
5. Flush the pump with clean water to remove possible impurities between the motor and the pump sleeve. Clean the impeller.
6. Check that the impeller can rotate freely.
7. Assemble the pump in reverse order of dismantling.

5.2 Service kits

It is possible to replace these parts:

| Service kit | Part number | Part number |
|-------------------------|-------------|-------------|
| | 50 Hz | 60 Hz |
| Impeller, CC5 | 96578967 | 97512794 |
| Impeller, CC7 | 96578968 | 97512822 |
| Impeller, CC9 | 96578969 | 97512824 |
| Non-return valve | 96578978 | |
| Adapter for outlet port | 96578979 | |
| Inlet strainer | 96578990 | |

The parts can be ordered from your pump supplier. If other pump components are damaged or defective, contact your pump supplier.



The cable and the float switch must be replaced by a service workshop authorised by Grundfos.

6. Fault finding the product

DANGER

Electric shock

Death or serious personal injury

- Switch off the power supply before starting any work on the product. Make sure that the power supply cannot be accidentally switched on.



| Fault | Cause | Remedy |
|---|--|--|
| 1. The pump does not run. | a) The power supply is switched off. | Switch on the power supply. |
| | b) The fuses in the installation are blown. | Replace defective fuses. |
| | c) The pump thermal switch has tripped. See section 3.5 <i>Thermal protection</i> . (See also point 2.) | The thermal switch restarts the pump when the motor has cooled down to normal temperature. |
| 2. The pump stops after a short time of operation (the thermal switch has tripped). | a) The temperature of the pumped liquid is higher than that stated in section 7. <i>Technical data</i> . The motor is overheated. | The pump starts automatically after sufficient cooling. |
| | b) The pump is partly or fully blocked by impurities. | Clean the pump. |
| | c) The water level is too low when the pump is started. The pump cannot self-prime. See section 7. <i>Technical data</i> . | Move the pump to a position with higher water level, or add water until the pump starts sucking. |
| 3. The pump runs, but gives insufficient water. | a) The pump is partly blocked by impurities. | Clean the pump. |
| | b) The outlet pipe or hose is partly blocked by impurities. The hose may be sharply bent. | Check and clean the non-return valve, if fitted. Straighten out the hose. |
| 4. The pump runs, but gives no water. | a) The pump is blocked by impurities. | Clean the pump. |
| | b) The non-return valve in the outlet pipe or hose is blocked in closed position or blocked by impurities. The hose may be sharply bent. | Check the non-return valve. Clean or replace the valve, if necessary. Straighten out the hose. |
| | c) Pumps with float switch: The pump does not stop because the free cable length of the float switch is too long. | Reduce the free cable length. |

7. Technical data

7.1 Operating conditions

7.1.1 Flow rate

| Pump type | Max. head [m] | Max. flow rate [m ³ /h] |
|--------------|---------------|------------------------------------|
| Unilift CC 5 | 5 | 6 |
| Unilift CC 7 | 7 | 10 |
| Unilift CC 9 | 9 | 14 |



Using the horizontal outlet may cause a 5 % drop in performance.

7.1.2 Temperature

| | |
|-----------------------------|---------------|
| Maximum ambient temperature | 40 °C |
| Liquid temperature | 0-40 °C |
| Operating temperature | 0-40 °C |
| Storage temperature | -10 to +50 °C |

Thermal protection

| Pump type | Thermal protection Winding temperature cut-out |
|--------------|--|
| Unilift CC 5 | 160 °C |
| Unilift CC 7 | 160 °C |
| Unilift CC 9 | 140 °C |



At intervals of at least 30 minutes, the pump is allowed to run at maximum 70 °C for periods not exceeding two minutes.

7.1.3 Pumped liquid requirements

| | |
|-----------------------|---|
| Pumped liquid | Rainwater and grey wastewater without long fibres |
| pH range | 4-9 pH |
| Maximum particle size | ∅10 mm |

7.1.4 Inlet level and installation depth

| Pump type | Minimum inlet level with inlet strainer [mm] | Minimum inlet level without inlet strainer [mm] |
|--------------|--|---|
| Unilift CC 5 | 20 | 3 |
| Unilift CC 7 | 20 | 3 |
| Unilift CC 9 | 20 | 3 |

| Pump type | Maximum installation depth [m] | Cable length [m] |
|---------------------|--------------------------------|------------------|
| Unilift CC 5, 50 Hz | 2 | 5 |
| Unilift CC 7, 50 Hz | 7 | 10 |
| Unilift CC 9, 50 Hz | | |
| Unilift CC 5, 60 Hz | 7 | 10 |
| Unilift CC 7, 60 Hz | | |
| Unilift CC 9, 60 Hz | | |

7.2 Electrical data

| Pump type | Supply voltage [V] |
|-----------|--------------------------------------|
| 50 Hz | 1 x 220-240 V, 50 Hz |
| 60 Hz | 1 x 115 V, 60 Hz 1 x 230 V, 60 hz |

| 50 Hz | Unilift CC 5 | Unilift CC 7 | Unilift CC 9 |
|--------------------------------|--------------|--------------|--------------|
| Voltage [V] | 220-240 | 220-240 | 220-240 |
| Current, I 1/1 [A] | 1.2 | 1.8 | 3.5 |
| Power, P1 [W] | 250 | 380 | 780 |
| Power factor, cos φ 1/1 | 0.90 | 0.98 | 0.94 |

| 60 Hz | Unilift CC 5 | Unilift CC 7 | Unilift CC 9 |
|--------------------------------|--------------|--------------|--------------|
| Voltage [V] | 115 230 | 115 230 | 115 230 |
| Current, I 1/1 [A] | 2.6 1.2 | 3.4 1.6 | 6.7 3.1 |
| Power, P1 [W] | 270 270 | 370 370 | 730 730 |
| Power factor, cos φ 1/1 | 0.95 0.97 | 0.95 0.98 | 0.92 0.95 |

| Pump type | Cable type | Insulation class |
|--|----------------------------------|------------------|
| CC 5, 50 Hz CC 7, 50 Hz | H05RN-F 3G0.75 | F |
| CC 9, 50 Hz | H07RN-F 3G1 | B |
| CC 5, 60 Hz, 230 V CC 7, 60 Hz, 230 V | H05RN-F 3G0.75 H07RN-F 3G1 | F F |
| CC 9, 60 Hz, 230 V | H07RN-F 3G1 | B |
| CC 5, 60 Hz, 115 V CC 7, 60 Hz, 115 V CC 9, 60 Hz, 115 V | H07RN-F 3G1 | B |

| Pump type | Capacitor | |
|--------------|------------|------|
| | [μ F] | [Vc] |
| Unilift CC 5 | 4 | 450 |
| Unilift CC 7 | 8 | 450 |
| Unilift CC 9 | 8 | 450 |

7.3 Mechanical data

| | |
|--------------------------------|-----------------|
| Maximum dry running time | 1 minute |
| Airborne noise emitted by pump | ≤ 70 dB(A) |
| Enclosure class | IP68 |

7.4 Dimensions and weights

See Appendix.

8. Disposing of the product

This product or parts of it must be disposed of in an environmentally sound way:

1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.



The crossed-out wheeled bin symbol on a product means that it must be disposed of separately from household waste. When a product marked with this symbol reaches its end of life, take it to a collection point designated by the local

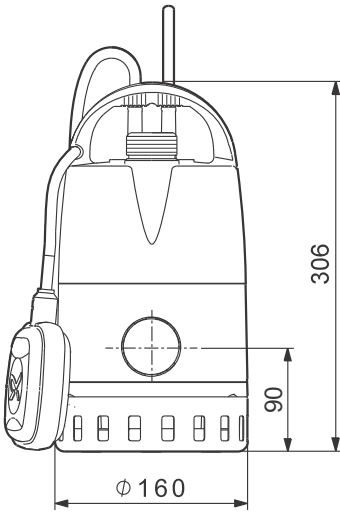
waste disposal authorities. The separate collection and recycling of such products will help protect the environment and human health.

See also end-of-life information on www.grundfos.com/products/product-sustainability/product-recycling.

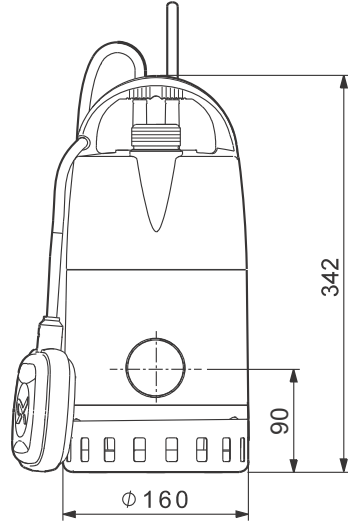
Dimensions and weights

| Pump type | Weight [kg] | Dimensions [mm] | | |
|--------------|-------------|-----------------|-------|----------|
| | | Height | Width | Diameter |
| Unilift CC 5 | 4.3 | 306 | 185 | Ø160 |
| Unilift CC 7 | 5.75 | 306 | 185 | Ø160 |
| Unilift CC 9 | 6.6 | 342 | 185 | Ø160 |

Unilift CC 5 and CC 7



Unilift CC 9



TM03 0828 4209

TM03 0826 4209

Argentina

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