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# Unilift CC 5, CC 7, CC 9

Installation and operating instructions

GB D F I E P GR NL S FIN DK  
PL RU H CZ TR



## **(GB)** Declaration of Conformity

We **Grundfos** declare under our sole responsibility that the products **Unilift CC 5, CC 7** and **CC 9**, to which this declaration relates, are in conformity with the Council Directives on the approximation of the laws of the EC Member States relating to

- Machinery (98/37/EC).
- Electrical equipment designed for use within certain voltage limits (73/23/EEC).  
Standards used: EN 60335-1: 2002 and EN 60335-2-51: 2003.
- Electromagnetic compatibility (89/336/EEC).
- Construction products (89/106/EEC).  
Standard used: EN 12 050-2.

## **(F)** Déclaration de Conformité

Nous **Grundfos** déclarons sous notre seule responsabilité que les produits **Unilift CC 5, CC 7** et **CC 9** auxquels se réfère cette déclaration sont conformes aux Directives du Conseil concernant le rapprochement des législations des Etats membres CE relatives à

- Machines (98/37/CE).
- Matériel électrique destiné à employer dans certaines limites de tension (73/23/CEE).  
Standards utilisés: EN 60335-1: 2002 et EN 60335-2-51: 2003.
- Compatibilité électromagnétique (89/336/CEE).
- Produits de construction (89/106/CEE).  
Standard utilisé: EN 12050-2.

## **(E)** Declaración de Conformidad

Nosotros **Grundfos** declaramos bajo nuestra única responsabilidad que los productos **Unilift CC 5, CC 7** y **CC 9** a los cuales se refiere esta declaración son conformes con las Directivas del Consejo relativas a la aproximación de las legislaciones de los Estados Miembros de la CE sobre

- Máquinas (98/37/CE).
- Material eléctrico destinado a utilizarse con determinadas límites de tensión (73/23/CEE).  
Normas aplicadas: EN 60335-1: 2002 y EN 60335-2-51: 2003.
- Compatibilidad electromagnética (89/336/CEE).
- Productos de construcción (89/106/CEE).  
Norma aplicada: EN 12050-2.

## **(GR)** Δήλωση Συμμόρφωσης

Εμείς η **Grundfos** δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι τα προϊόντα **Unilift CC 5, CC 7** και **CC 9** συμμορφώνονται με την Οδηγία του Συμβουλίου επί της σύγκλισης των νόμων των Κρατών Μελών της Ευρωπαϊκής Ένωσης σε σχέση με τα

- Μηχανήματα (98/37/ΕC).
- Ηλεκτρικές συσκευές σχεδιασμένες για χρήση εντός ορισμένων ορίων ηλεκτρικής τάσης (73/23/ΕΕC).  
Πρότυπα που χρησιμοποιήθηκαν: EN 60335-1: 2002 και EN 60335-2-51: 2003.
- Ηλεκτρομαγνητική συμβατότητα (89/336/ΕΕC).
- Προϊόντα κατασκευών (89/106/ΕΕC).  
Πρότυπο που χρησιμοποιήθηκε: EN 12050-2.

## **(S)** Försäkran om överensstämmelse

Vi **Grundfos** försäkrar under ansvar, att produkterna **Unilift CC 5, CC 7** och **CC 9**, som omfattas av denna försäkran, är i överensstämmelse med Rådets Direktiv om inbördes närmande till EU-medlemsstaternas lagstiftning, avseende

- Maskinell utrustning (98/37/EC).
- Elektrisk utrustning avsedd för användning inom vissa spänningsgränser (73/23/EEC).  
Använda standarder: EN 60335-1: 2002 och EN 60335-2-51: 2003.
- Elektromagnetisk kompatibilitet (89/336/EC).
- Produkter för bygg och anläggning (89/106/EC).  
Använd standard: EN 12050-2.

## **(DK)** Overensstemmelseserklæring

Vi **Grundfos** erklærer under ansvar, at produkterne **Unilift CC 5, CC 7** og **CC 9**, som denne erklæring omhandler, er i overensstemmelse med Rådets direktiv om indbyrdes tilnærmelse til EF medlemsstaternes lovgivning om

- Maskiner (98/37/EF).
- Elektrisk materiel bestemt til anvendelse inden for visse spændingsgrænser (73/23/EØF).  
Anvendte standarder: EN 60335-1: 2002 og EN 60335-2-51: 2003.
- Elektromagnetisk kompatibilitet (89/336/EØF).
- Byggevarer (89/106/EØF).  
Anvendt standard: EN 12050-2.

## **(D)** Konformitätserklärung

Wir **Grundfos** erklären in alleiniger Verantwortung, dass die Produkte **Unilift CC 5, CC 7** und **CC 9**, auf die sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EG-Mitgliedstaaten übereinstimmen

- Maschinen (98/37/EG).
- Elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen (73/23/EWG).  
Normen, die verwendet wurden: EN 60335-1: 2002 und EN 60335-2-51: 2003.
- Elektromagnetische Verträglichkeit (89/336/EWG).
- Bauprodukte (89/106/EWG).  
Norm, die verwendet wurde: EN 12050-2.

## **(I)** Dichiarazione di Conformità

Noi **Grundfos** dichiariamo sotto la nostra esclusiva responsabilità che i prodotti **Unilift CC 5, CC 7** e **CC 9** ai quali questa dichiarazione se riferisce sono conformi alle Direttive del Consiglio concernente il ravvicinamento delle legislazioni degli Stati membri CE relative a

- Macchine (98/37/CE).
- Materiale elettrico destinato ad essere utilizzato entro certi limiti di tensione (73/23/CEE).  
Standard usati: EN 60335-1: 2002 e EN 60335-2-51: 2003.
- Compatibilità elettromagnetica (89/336/CEE).
- Prodotti da costruzione (89/106/CEE).  
Standard usato: EN 12050-2.

## **(P)** Declaração de Conformidade

Nós **Grundfos** declaramos sob nossa única responsabilidade que os produtos **Unilift CC 5, CC 7** e **CC 9** aos quais se refere esta declaração estão em conformidade com as Directivas do Conselho das Comunidades Europeias relativas à aproximação das legislações dos Estados Membros respeitantes à

- Máquinas (98/37/CE).
- Material eléctrico destinado a ser utilizado dentro de certos limites de tensão (73/23/CEE).  
Normas utilizadas: EN 60335-1: 2002 e EN 60335-2-51: 2003.
- Compatibilidade electromagnética (89/336/CEE).
- Produtos de construção (89/106/CEE).  
Norma utilizada: EN 12050-2.

## **(NL)** Overeenkomstigheidsverklaring

Wij **Grundfos** verklaren geheel onder eigen verantwoordelijkheid dat de producten **Unilift CC 5, CC 7** en **CC 9** waarop deze verklaring betrekking heeft in overeenstemming zijn met de Richtlijnen van de Raad inzake de onderlinge aanpassing van de wetgevingen van de Lid-Staten betreffende

- Machines (98/37/EG).
- Elektrisch materiaal bestemd voor gebruik binnen bepaalde spanningsgrenzen (73/23/EEG).  
Normen: EN 60335-1: 2002 en EN 60335-2-51: 2003.
- Elektromagnetische compatibiliteit (89/336/EEG).
- Bouwproducten (89/106/EEG).  
Norm: EN 12050-2.

## **(FIN)** Vastaavuusvakuutus

Me **Grundfos** vakuutamme yksin vastuullisesti, että tuotteet **Unilift CC 5, CC 7** ja **CC 9**, jota tämä vakuutus koskee, noudattavat direktiivejä jotka käsittelevät EY:n jäsenvaltioiden koneellisia laitteita koskevien lakien yhdenmukaisuutta seur.:

- Koneet (98/37/EY).
- Määrättyjen jänniterajoitusten puitteissa käytettävät sähköiset laitteet (73/23/EY).
- Käytetyt standardit: EN 60335-1: 2002 ja EN 60335-2-51: 2003.
- Elektromagneettinen vastaavuus (89/336/EY).
- Rakennustuotteet (89/106/EY).
- Käytetty standardi: EN 12050-2.

## **(PL)** Deklaracja zgodności

My, **Grundfos**, oświadczamy z pełną odpowiedzialnością, że nasze wyroby **Unilift CC 5, CC 7** oraz **CC 9**, których deklaracja niniejsza dotyczy, są zgodne z następującymi wytycznymi Rady d/s ujednolicenia przepisów prawnych krajów członkowskich EG:

- maszyny (98/37/EG),
- wyposażenie elektryczne do stosowania w określonym zakresie napięć (73/23/EWG),
- zastosowane normy: EN 60335-1: 2002 i EN 60335-2-51: 2003,
- zgodność elektromagnetyczna (89/336/EWG),
- Budowa wyrobu (89/106/EG)
- Zastosowana norma: EN 12050-2.

**(RU) Свидетельство о соответствии требованиям**

Мы, фирма **Grundfos**, со всей ответственностью заявляем, что изделия **Unilift CC 5, CC 7 и CC 9**, к которым и относится данное свидетельство, отвечают требованиям следующих указаний Совета ЕС об унификации законодательных предписаний стран-членов ЕС:

- Машиностроение (98/37/EC).
- Электрические машины для эксплуатации в пределах определенного диапазона значений напряжения (73/23/ЕЭС).  
Применявшиеся стандарты: Евростандарт EN 60335-1: 2002 и EN 60335-2-51: 2003.
- Электромагнитная совместимость (89/336/ЕЭС).
- Строительные изделия (89/106/ЕЭС).  
Применявшиеся стандарты: Евростандарт EN 12050-2.

**(CZ) Prohlášení o konformitě**

My firma **Grundfos** prohlašujeme na svou plnou odpovědnost, že výrobky **Unilift CC 5, CC 7 a CC 9** na něž se toto prohlášení vztahuje, jsou v souladu s ustanoveními směrnice Rady pro sblížení právních předpisů členských států Evropského společenství v oblastech:

- strojírenství (98/37/EG),
- provozování spotřebičů v toleranci napětí (73/23/EWG), použité normy: EN 60335-1: 2002 a EN 60335-2-51: 2003
- elektromagnetická kompatibilita (89/336/EWG),
- Konstrukční výrobky (89/106/EEC).  
Použitá norma: EN 12050-2.

**(H) Konformitási nyilatkozat**

Mi, a **Grundfos**, egyedüli felelősséggel kijelentjük, hogy az **Unilift CC 5, CC 7 és CC 9** termékek, amelyekre jelen nyilatkozat vonatkozik, megfelelnek az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi irányelveinek:

- Gépek (98/37/EK).
- Meghatározott feszültség határon belül használt elektromos eszközök (73/23/EGK).  
Alkalmazott szabványok: EN 60335-1: 2002 és EN 60335-2-51: 2003.
- Elektromágneses összeférhetőség (89/336/EGK).
- Összeépített berendezések (89/106/EEC)  
Alkalmazott szabvány: EN 12050-2.

**(TR) Uygunluk Bildirgesi**

Biz **Grundfos** olarak, bu beyanda belirtilen **Unilift CC 5, CC 7 ve CC 9** ürünlerinin,

- Makina (98/37/EC).
- Belirli voltaj sınırlarında kullanılmak üzere üretilmiş elektrik donanımı (73/23/EEC).  
Kullanılan standartlar: EN 60335-1: 2002 ve EN 60335-2-51: 2003.
- Elektromanyetik uyumluluk (89/336/EEC).
- Yapı ürünleri (89/106/EEC)  
Kullanılan standart: EN 12050-2.

ile ilgili olarak Avrupa topluluğu'na Üye Devletlerin yasalarında yer alan Belediye Yönetmeliklerine uygun olduğunu, tüm sorumluluğu bize ait olmak üzere beyan ederiz.

Bjerringbro, 15 December 2006



Svend Aage Kaas  
Technical Director



# Unilift CC 5, CC 7, CC 9

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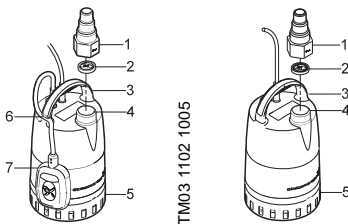
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Prior to installation, read these installation and operating instructions. Installation and operation must comply with local regulations and accepted codes of good practice.

## 1. Unilift CC 5, CC 7 and CC 9 pumps



TM03 1102 1005

TM03 1025 0905

**Fig. 1** Pump with and without float switch

1. Adaptor
2. Non-return valve
3. Handle
4. Discharge port
5. Suction strainer
6. Clamp
7. Float switch.

## 2. Applications

Grundfos Unilift CC 5, CC 7 and CC 9 pumps are single-stage submersible pumps designed for pumping rainwater and grey wastewater, e.g. from

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

The pump is suitable for both stationary and portable use.

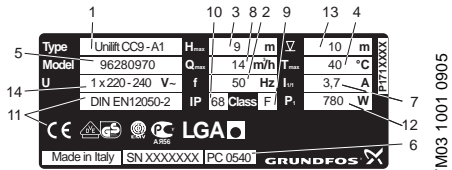


The pump must not be used in or at swimming pools, garden ponds, etc. if there are persons in the water.

The pump is **not** suitable for

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

## 3. Identification



TM03 1001 0905

**Fig. 2** Example of nameplate for Unilift CC 9

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

## 4. Functions

### Pump with float switch

- Automatic start/stop.
- Pumping to low water level without suction strainer, with the pump in forced operation.

### Pump without float switch

- Manual external start/stop.
- Pumping to low water level without suction strainer, see section 7.4.

Unilift CC pumps incorporate a vent valve.  
See section 7.1.

## 5. Operating conditions

### Liquid temperature

0°C to +40°C.

At intervals of at least 30 minutes, the pump is allowed, however, to run at maximum +70°C for periods not exceeding 2 minutes.

### Storage temperature

-10°C to +50°C.

### Installation depth

Maximum 10 metres below water surface.

## 6. Installation

### Note:

- The pump must not be installed hanging from the electric cable or the discharge pipe.
- Do not lift or lower the pump by means of the electric cable.

### 6.1 Installation dimensions

#### 6.1.1 Pump with float switch

If the pump is installed in a well, the minimum dimensions of the well should be as shown in fig. 3 and the table to ensure free movability of the float switch.

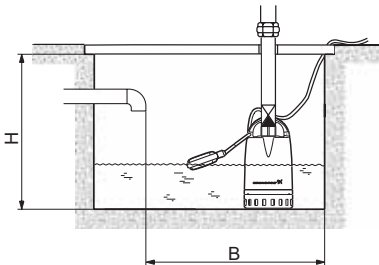


Fig. 3 Minimum installation dimensions

TM03 1122 1105

### Minimum installation dimensions

Pump type	Height (H) [mm]	Width (B) [mm]
Unilift CC 5 Unilift CC 7	520	400
Unilift CC 9	570	500

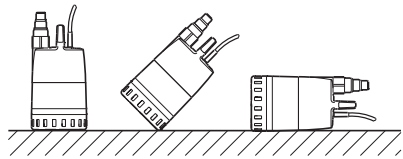
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#### 6.1.2 Pump without float switch

The space required corresponds to the physical dimensions of the pump, see page 119.

### 6.2 Pump location

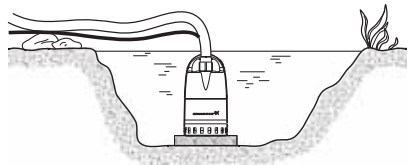
The pump can be used in the vertical position and in the tilted or horizontal position with the discharge port as the highest point of the pump. During operation, the suction strainer must be covered by the pumped liquid.



TM03 1111 1005

Fig. 4 Pump positions

Position the pump so that the suction strainer is free of silt, mud or similar materials. This can be ensured by placing the pump on bricks, an iron plate, etc.



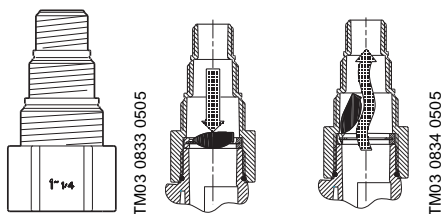
TM03 1123 1105

Fig. 5 Pump mounted on a plate

### 6.3 Connection of discharge pipe

The discharge pipe can be connected directly to the pump discharge port or by means of the adaptor.

To prevent backflow through the pump when it stops, the supplied non-return valve can be fitted in the adaptor. The non-return valve is fixed when the adaptor is fitted to the pump discharge port.



**Fig. 6** Adaptor and non-return valve (position and function)

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

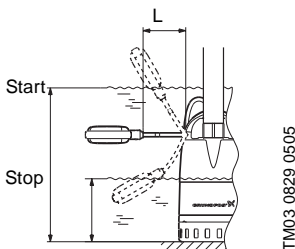
The approval according to DIN EN 12 056-4 stipulates that the pipe from the fixed installation must be connected directly to the pump discharge port. If the supplied adaptor is to be used, the 3/4" and 1" sockets must be cut off.

### 6.4 Adjustment of cable length for float switch

The difference in level between start and stop can be adjusted by changing the free cable length between the float switch and the pump handle.

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

In order that the float switch can start and stop the pump, the free cable length must be min. 100 mm and max. 200 mm.



**Fig. 7** Start/stop levels at min. and max. 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

### 6.5 Electrical connection

**Supply voltage:** 1 x 220-240 V, 50 Hz.

The electrical connection must be carried out in accordance with local regulations.

Check that the mains voltage and frequency correspond to the values stated on the pump nameplate.



As a precaution, the pump must be connected to a socket with earth connection. It is recommended to fit the permanent installation with an earth leakage circuit breaker (ELCB) with a tripping current < 30 mA.

## 7. Operation

### 7.1 Self-venting

A vent valve is built into the pump handle. The valve allows air to escape from the pump in case the free air flow through the discharge 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.

### 7.2 Manual operation

The pump is started and stopped by an external switch.

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

In order that the pump can 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.

For pumping to low level, see section 7.4.



### 7.3 Automatic operation

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

#### Forced operation of pump with float switch

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

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

### 7.4 Pumping to low water level

When the suction strainer has been removed, the pump can pump down to 3 mm.

Remove the suction strainer by inserting a screwdriver between the pump sleeve and the suction strainer and turning it.

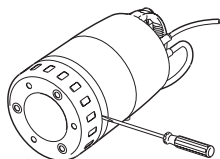


Fig. 8 Removal of suction strainer

These conditions must be fulfilled:

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

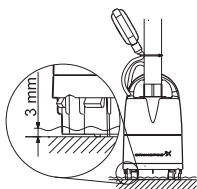


Fig. 9 Low water level

### 7.5 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 restarts automatically.

## 8. Maintenance

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

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

### 8.1 Cleaning the pump



Before starting work on the pump, make sure that the electricity supply to the pump has been switched off and that it cannot be accidentally switched on.

#### Cleaning the suction strainer

1. Switch off the electricity supply to the pump.
2. Drain the pump.
3. Loosen the suction strainer by inserting a screwdriver between the pump sleeve and the strainer and turning it, see fig. 8.
4. Clean and refit the suction strainer.

#### Cleaning the impeller

1. Switch off the electricity supply to the pump.
2. Loosen the suction strainer by inserting a screwdriver between the pump sleeve and the strainer and turning it, see fig. 8.
3. Remove the bottom part, see fig. 10.

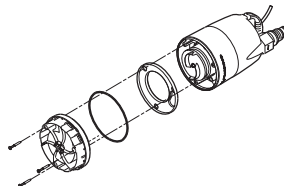


Fig. 10 Removal of bottom part

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.

TM03 0831 0505

TM03 0832 0505

TM03 1112 1005

## 9. Technical data

### Pump performance

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

### Maximum particle size

ø10 mm.

### Enclosure class

IP 68.

### Insulation class

- Unilift CC 5 and Unilift CC 7: F.
- Unilift CC 9: B.

### Thermal protection

Cutting out at a winding temperature of

- Unilift CC 5 and Unilift CC 7: +160°C.
- Unilift CC 9: +140°C.

### Maximum permissible dry-running time

24 hours.

## 9.1 Electrical data

Pump type	Unilift CC 5	Unilift CC 7	Unilift CC 9
Voltage [V]	220-240	220-240	220-240
Current, I <sub>1/1</sub> [A]	1.2	1.8	3.5
Power, P <sub>1</sub> [W]	250	380	780
Power factor, cos φ <sub>1/1</sub>	0.90	0.98	0.94
Cable type	H05RN-F 3G0.75	H07RN-F 3G1	H07RN-F 3G1

## 9.2 Sound power level

Airborne noise emitted by pump: ≤70 dB(A).

## 9.3 Dimensions

See page 119.

## 10. Fault finding chart



Before starting work on the pump, make sure that the electricity supply to the pump has been switched off and that it cannot be accidentally switched on.

GB

Fault	Cause	Remedy
1. The pump does not run.	a) Electricity supply switched off.	Switch on the electricity supply.
	b) Fuses in installation blown.	Replace defective fuses.
	c) The pump thermal switch has tripped out, see section 7.5. (See also point 2.)	The thermal switch restarts the pump when the motor has cooled to normal temperature.
2. The pump stops after short time of operation (thermal switch tripped out).	a) The pumped liquid temperature is higher than that stated in section 5. The motor is overheated.	The pump starts automatically after sufficient cooling.
	b) Pump partly blocked by impurities or blocked.	Clean the pump, see section 8.1.
	c) Water level too low when the pump is started. The pump cannot self-prime, see sections 7.1 and 7.4.	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) Pump partly blocked by impurities.	Clean the pump, see section 8.1.
	b) Discharge pipe/hose partly blocked by impurities. The hose may be sharply bent.	Check and clean the non-return valve, if fitted.
	c) Impeller, bottom part or diaphragm defective.	Replace defective parts, see section 11.
4. The pump runs but gives no water.	a) Pump blocked by impurities.	Clean the pump, see section 8.1.
	b) Non-return valve in discharge pipe/hose 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.
	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, see section 6.4.
5. The pump leaks at the handle (no fault).	a) Pump sucks air or water with a high air content. See section 7.1.	The pump is not damaged. Move the pump to a place where the water level is higher.

## 11. Service

It is possible to replace these parts:

Service kit	Type	Part number
Impeller	CC 5	96578967
	CC 7	96578968
	CC 9	96578969
Non-return valve		96578978
Adapter for discharge port		96578979
Suction strainer		96578990

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

**Note:** The cable and the float switch must be replaced by an authorised Grundfos service workshop.

## 12. Disposal

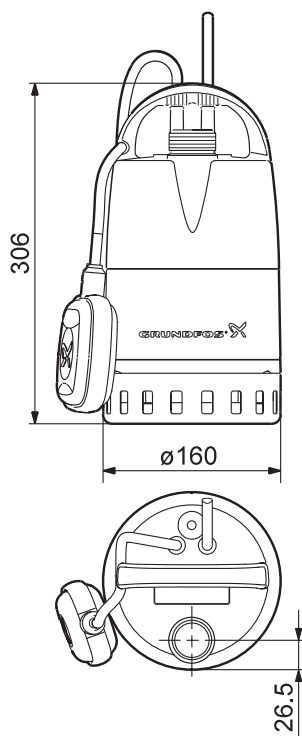
This product or parts of it must be disposed of in an environmentally sound way:

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

Subject to alterations.

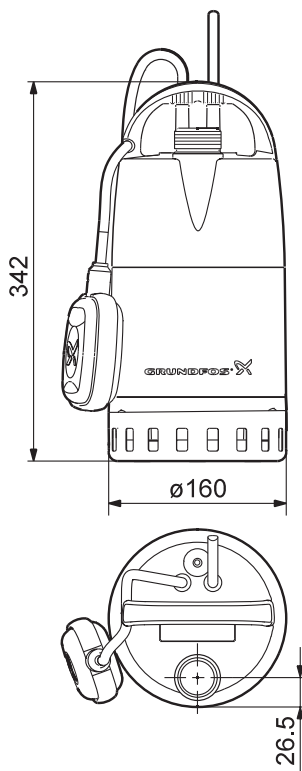
## Dimensions

### CC 5, CC 7



TM03 0828 0505

### CC 9



TM03 0826 0505







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