

# Unilift AP35B, AP50B

Installation and operating instructions



Other languages

<http://net.grundfos.com/qr/i/96004693>

be  
think  
innovate

**GRUNDFOS** 

# English (GB) Installation and operating instructions

## Original installation and operating instructions

These installation and operating instructions describe Grundfos Unilift AP35B and AP50B.

Sections 1-4 give the information necessary to be able to unpack, install and start up the product in a safe way.

Sections 5-9 give important information about the product, as well as information on service, fault finding and disposal of the product.

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This appliance can be used by children aged from 8 years and above and 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 Hazard statements

The symbols and hazard statements below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.

#### **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 hazard statements are structured in the following way:

#### **SIGNAL WORD**



#### **Description of hazard**

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



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

## 1.2 Notes

The symbols and notes below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.



Observe these instructions for explosion-proof products.



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



A red or grey circle with a diagonal bar, possibly with a black graphical symbol, indicates that an action must not be taken or must be stopped.



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. Receiving the product

### WARNING



#### Falling objects

- Death or serious personal injury
- Keep the product in a stable position during unpacking.
- Wear personal protective equipment.

### 2.1 Inspecting the product

Check that the product received is in accordance with the order.

Check that the voltage and frequency of the product match voltage and frequency of the installation site.

## 3. Installing the product

### CAUTION

#### Toxic material



Minor or moderate personal injury

- The product will be classified as contaminated if it has been used for a liquid which is injurious to health or toxic.
- Wear personal protective equipment.



Installation must be carried out by specially trained persons and according to local regulations.



According to EN 60335-2-41/A2:2010, this product with 5 m of mains cable may be used only for indoor applications.

### 3.1 Location

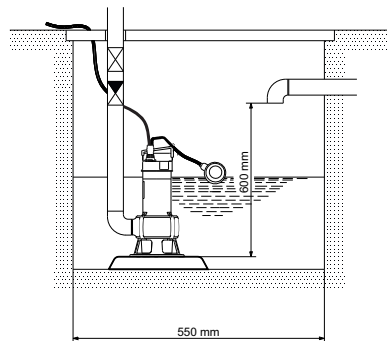


Always have at least 3 m free cable above liquid level. This limits the installation depth to 7 m for pumps with 10 m cable and to 2 m for pumps with 5 m cable.

#### 3.1.1 Minimum space

The pit, basin or tank must be sized according to the relation between the water flow to the pit, basin or tank and the pump performance.

When the pump is installed in a permanent installation with a float switch, the minimum dimensions of the pit, basin or tank must be as shown in [fig. 1](#) to ensure free movability of the float switch. The float switch is set to the minimum free cable length. See section [3.2.7 Adjusting the float switch cable length](#).



**Fig. 1** Minimum pit dimensions when the float switch is set to the minimum free cable length

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## 3.2 Mechanical installation

### 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.



### CAUTION

#### Sharp element

- Minor or moderate personal injury
- Wear personal protective equipment.
- Make sure that persons cannot come into contact with the pump impeller.



Do not install the pump hanging from the electric cable or the outlet pipe.

### 3.2.1 Foundation

Place the pump on a plate or on bricks so that the inlet strainer is free of sludge, mud or similar materials. See fig. 2.

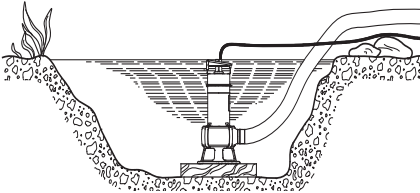


Fig. 2 Place the pump on a plate

### 3.2.2 Lifting the pump



Do not pull or lift the product by the power cable.

Lift the pump using the pump handle. Do not lift the pump by the power cable or by the outlet pipe or hose.

If the pump is installed in a well or tank, lower and lift it by means of a wire or chain fastened to the pump handle.

### 3.2.3 Positioning the pump

The pump can be used in vertical or horizontal position. See fig. 3.

During continuous operation, the motor and the pump inlet must always be completely covered by the pumped liquid.

During intermittent operation, the motor must always be half submerged into the pumped liquid.

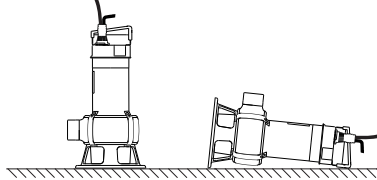


Fig. 3 Position of the pump

When the pipe or hose has been connected, place the pump in its operating position.

Position the pump so that the pump inlet will not be blocked or partly blocked by sludge, mud or similar materials.

In the case of permanent installation, the pit must be cleared of sludge, pebbles, etc. before the pump is installed.

### 3.2.4 Pipe connection

For permanent installation, we recommend that you fit a union, a non-return valve and an isolating valve in the outlet pipe.

### 3.2.5 Installation on auto coupling

See figs A and B in [Appendix](#).

Pumps for permanent installation can be installed on a stationary auto coupling and operated completely or partially submerged in the pumped liquid.

1. Drill mounting holes for guide rail bracket on the inside of the pit and fasten the guide rail bracket provisionally with two screws.
2. Place the auto coupling base unit on the bottom of the pit. Use a plumb line to establish the correct positioning. Fasten with heavy-duty expansion bolts. If the bottom of the pit is uneven, the auto-coupling base unit must be supported so that it is level when being fastened.
3. Assemble the outlet line in accordance with the generally accepted procedures and without exposing the line to distortion or tension.

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4. Knock the guide rails on to the spigots of the bottom part of the auto coupling. Bevel the inside of the guide rails to facilitate installation. The guide rails must fit tightly on the spigots. We recommend 3/4" medium size pipes as guide rails.
5. Adapt the length of the guide rails to fit precisely the bracket at the top.
6. Unscrew the provisionally fastened guide rail bracket, fit it on top of the guide rails and finally fasten it firmly to the pit wall.



The guide rails must not have any axial play as this would cause noise during pump operation.

7. Clean out debris from the pit before lowering the pump into the pit.
8. Fit the auto-coupling half on to the outlet of the pump. Then slide the guide bar of this coupling half between the guide rails and lower the pump into the pit by means of a chain. When the pump reaches the auto-coupling base unit, the pump will automatically connect tightly.
9. Hang up the end of the chain on a suitable hook at the top of the pit.
10. Adjust the length of the motor cable by coiling it up on a relief fitting, so the cable is not damaged during operation. Fasten the relief fitting to a suitable bracket at the top of the pit. Make sure that the cables are not sharply bent or pinched.



The end of the cable must not be submerged, as water may penetrate through the cable into the motor.

### 3.2.6 Free-standing installation

See fig. C in [Appendix](#).

For free-standing installation of the pumps, fit a 90 ° elbow to the outlet. The pump can be installed with a hose or rigid pipe and valves.

In order to facilitate service of the pump, fit a flexible union or coupling to the outlet pipe for easy separation.

If a hose is used, make sure that the hose does not buckle and that the inside diameter of the hose matches that of the outlet.

If a rigid pipe is used, the union or coupling, non-return valve and isolating valve must be fitted in the sequence mentioned, as seen from the pump side.

Lower the pump into the liquid.

If the pump is installed in muddy conditions or on uneven ground, we recommend that you support the pump on bricks.

### 3.2.7 Adjusting the float switch cable length

For pumps supplied with a 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 will result in fewer starts and stops and a large difference in level.
- A reduced free cable length will result in more frequent starts and stops and a small difference in level.

The stop level must be above the pump inlet to prevent the pump from taking in air.

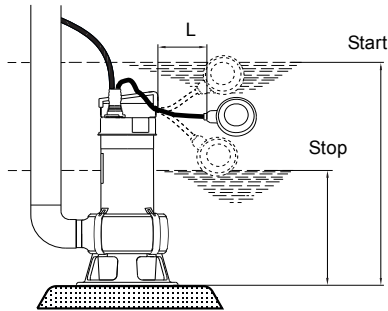


Fig. 4 Start and stop levels

The start and stop levels vary according to the cable length.

#### Unilift AP B start and stop levels [mm]

Cable length (L) min. 100 mm		Cable length (L) max. 300 mm	
Start	Stop	Start	Stop
500	300	550	150

#### Intermittent operation

During intermittent operation, the motor must always be half submerged into the pumped liquid.

The pump is allowed to run for maximum 5 minutes per 30 minutes without the motor being submerged in the liquid.

#### Continuous operation

During continuous operation, the motor and the pump inlet must always be completely covered by the pumped liquid.

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### 3.3 Electrical connection

#### 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
- 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
- Make sure that the power supply plug delivered with the product is in compliance with local regulations.
  - The plug must have the same protective earth (PE) connection system as the power outlet. If not, use a suitable adapter if allowed by local regulations.



#### DANGER

##### Electric shock

- Death or serious personal injury
- Power cables without a plug must be connected to a supply disconnecting device incorporated in the fixed wiring according to the local wiring rules.



All electrical connections must be carried out by a qualified person in accordance with local regulations.



Depending on local regulations, a pump with minimum 10 m of mains cable must be used if the pump is used as a portable pump for different applications.

Make sure that the product is suitable for the supply voltage and frequency available at the installation site. Voltage and frequency are marked on the pump nameplate.

The pump must be connected to an external main switch. If the pump is not installed close to the switch, the switch must be of a lockable type.

Three-phase pumps must be connected to an external motor-protective circuit breaker with differential release. The rated current of the motor-protective circuit breaker must correspond to the electrical data marked on the pump nameplate.

If a level switch is connected to a three-phase pump, the motor-protective circuit breaker must be magnetically operated.

Single-phase pumps incorporate thermal overload protection and require no additional motor protection.



If the motor is overloaded, it will stop automatically. When the motor has cooled to normal temperature, it restarts automatically.

### 3.4 Checking the direction of rotation

#### Three-phase pumps only

Check the direction of rotation every time the pump is connected to a new installation.

1. Position the pump so that you can observe the impeller.
2. Start the pump for a short period.
3. Observe the rotation of the impeller. The correct direction of rotation is indicated by an arrow on the top of the motor (clockwise when seen from the bottom). If the impeller rotates in the wrong direction, reverse the direction of rotation by interchanging two of the phases to the motor.

If the pump is connected to a pipe system, check the direction of rotation in this way:

1. Start the pump and check the quantity of water or the pressure.
2. Stop the pump and interchange two of the phases to the motor.
3. Start the pump and check the quantity of water or the pressure.
4. Stop the pump.
5. Compare the results taken under points 1 and 3. The largest quantity of water indicates the correct direction of rotation.

## 4. Starting up the product

### 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.



The pump may be run briefly to check the direction of rotation without being submerged in the pumped liquid.

1. Before starting the pump, submerge the pump inlet in the pumped liquid.
2. Open the isolating valve, if fitted, and check the level switch setting.

## 5. Product introduction

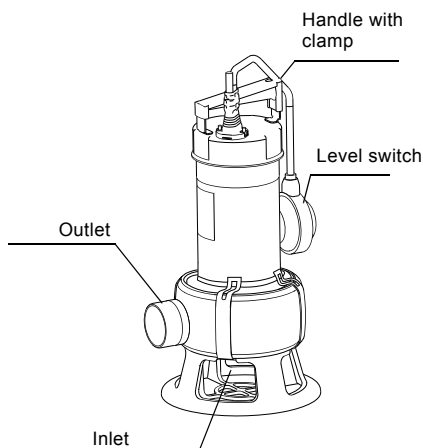


Fig. 1 Unilift AP35B, AP50B

### 5.1 Intended use

The Grundfos Unilift AP pump is a single-stage submersible pump designed for pumping wastewater.

The pump is capable of pumping water which contains a limited quantity of solids, however not stones and similar materials, without being blocked or damaged.

The pump is available for automatic as well as manual operation and can be installed in a permanent installation or used as a portable pump. Permanent installation can be on a stationary auto coupling or as a free-standing pump.

Applications	Unilift AP35B	Unilift AP50B
Drainage of flooded cellars or buildings	•	•
Groundwater lowering	•	•
Pumping of water from drain water collecting pits	•	•
Pumping of water from surface water pits with inflow from roof gutters, shafts, tunnels, etc.	•	•
Emptying and filling of swimming pools, ponds, pits etc.	•	•
Pumping of wastewater from washing machines, baths, sinks etc. from low-lying parts of buildings up to sewer level	•	•
Pumping of fibre-containing wastewater from laundries and light industries	•	•
Pumping of domestic wastewater from septic tanks and sludge treating systems	•	•
Pumping of domestic wastewater without discharge from toilet rooms	•	•
Pumping of domestic wastewater with discharge from toilet rooms		•*

\* Unilift AP50B is approved according to EN 12050-1 and can be used for toilet discharge if local regulations allow the usage of a 50 mm free passage Vortex pump.

Incorrect application of the pump, for example resulting in blocking of the pump, and wear are not covered by the warranty.

### 5.2 Pumped liquids

The pump is capable of pumping water containing a limited quantity of spherical particles. Pumping of spherical particles exceeding the maximum particle size for the pump may block or damage the pump. Maximum particle size: See section 8. *Technical data*.

The pump is not suitable for these liquids:

- liquids containing long fibres
- inflammable liquids (oil, petrol, etc.)
- aggressive liquids.
- liquids containing solids exceeding the pump's recommended maximum particle size.

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## 5.3 Identification

### 5.3.1 Nameplate

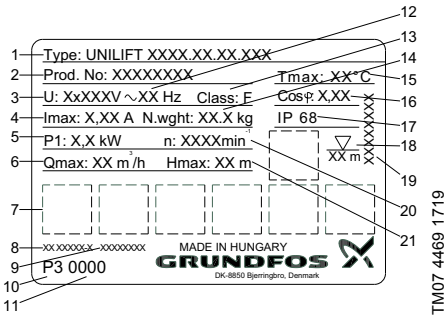


Fig. 2 Nameplate example

Pos.	Description
1	Product type
2	Product number
3	Supply voltage [V]
4	Maximum current [A]
5	Power input [kW]
6	Maximum flow rate [m <sup>3</sup> /h]
7	Approvals
8	ID number for EN standards
9	ID number for Safety Instruction
10	Factory code
11	Production code (YYWW)
12	Frequency [Hz]
13	Insulation class
14	Net weight [kg]
15	Maximum liquid temperature [°C]
16	Cosinus phi
17	Enclosure class
18	Maximum installation depth [m]
19	Nameplate layout
20	Speed [min <sup>-1</sup> ]
21	Maximum head [m]

### 5.3.2 Type key

Example	Unilift AP	35	B.	50.	08.	A	1	.V
Type range								
Maximum solids size [mm]								
Pump type:								
[ ] = AP Pump								
B = AP Basic								
Nominal diameter of outlet port								
Power output, P <sub>2</sub> / 100 [W]								
Level control:								
A = Automatic operation with float switch								
[ ] = Manual operation without float switch								
Motor:								
1 = Single-phase								
3 = Three-phase								
Impeller:								
V = Vortex impeller								



## 6. Servicing 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.

### CAUTION

#### Sharp element



- Minor or moderate personal injury
- Wear personal protective equipment.

### CAUTION

#### Toxic material



- Minor or moderate personal injury
- The product will be classified as contaminated if it has been used for a liquid which is injurious to health or toxic.
  - Wear personal protective equipment.

### CAUTION

#### Biological hazard



- Minor or moderate personal injury
- Flush the product thoroughly with clean water and rinse the parts in water after dismantling.
  - Wear personal protective equipment.



If the power cable or the level switch is damaged, it must be replaced by a service workshop authorised by Grundfos.



Service must be carried out by specially trained persons.

Furthermore, all rules and regulations covering safety, health and environment must be observed.

1. If the pump has been used for liquids other than clean water, flush the pump thoroughly with clean water before carrying out maintenance and service.
2. Rinse the pump parts in water after dismantling.

### 6.1 Maintaining the product

Check the pump and replace the oil once a year. If the pump is used for pumping liquids containing abrasive particles or it is operating continuously, the pump must be checked at shorter intervals.

If the drained oil contains water or other impurities, we recommend that you replace the shaft seal.

### 6.2 Oil

In the case of long operating time or continuous operation, the oil must be replaced as follows:

Liquid temperature	The oil must be replaced after
20 °C	4500 operating hours
40 °C	3000 operating hours

The pump contains 78 ml non-poisonous oil. Used oil must be disposed of in accordance with local regulations.

### 6.3 Construction

The construction of the pump will appear from the table below and fig. D in [Appendix](#).

Pos.	Description
50	Pump housing
37a	O-ring
49	Impeller
150	Motor with flange
66	Washer
84	Base
67	Lock nut
6	Inlet part
105a	Shaft seal
182	Level switch

### 6.4 Service kits

Service kit	Part number
Shaft seal, standard	96429307
Shaft seal, FKM	96429308
Oil	96010646

### 6.5 Contaminated pumps

#### CAUTION

##### Biological hazard



- Minor or moderate personal injury
- Flush the product thoroughly with clean water and rinse the parts in water after dismantling.
  - Wear personal protective equipment.

The product will be classified as contaminated if it has been used for a liquid which is injurious to health or toxic.

If you request Grundfos to service the product, contact Grundfos with details about the pumped liquid before returning the product for service. Otherwise, Grundfos can refuse to accept the product for service.

Any application for service must include details about the pumped liquid.

Clean the product in the best possible way before you return it.

Costs of returning the product are to be paid by the customer.

## 7. 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.

### CAUTION



#### Sharp element

- Minor or moderate personal injury
- Wear personal protective equipment.

### CAUTION



#### Toxic material

- Minor or moderate personal injury
- The product will be classified as contaminated if it has been used for a liquid which is injurious to health or toxic.
  - Wear personal protective equipment.

Fault	Cause	Remedy
1. The motor does not start.	a) No power supply.	Connect the power supply.
	b) The pump was stopped by the level switch.	Adjust or replace the level switch.
	c) The fuses have blown.	Replace the fuses.
	d) The motor protection or thermal relay has tripped.	Wait until the motor protection trips in again or reset the relay.
	e) The impeller is blocked by impurities.	Clean the impeller.
	f) Short circuit in the cable or motor.	Replace the defective part.
2. The motor protection or thermal relay trips after a short time of operation.	a) The liquid temperature is too high.	Use another pump type. Contact your local Grundfos supplier or sales support.
	b) The impeller is blocked or partly blocked by impurities.	Clean the pump.
	c) Phase failure.	Call an electrician.
	d) Too low voltage.	Call an electrician.
	e) The overload setting of the motor-protective circuit breaker is too low.	Adjust the setting.
	f) Incorrect direction of rotation. See section 3.4 <i>Checking the direction of rotation</i> .	Reverse the direction of rotation.
3. The pump runs constantly or gives too little water.	a) The pump is partly blocked by impurities.	Clean the pump.
	b) The outlet pipe or valve is partly blocked by impurities.	Clean the outlet pipe or valve.
	c) The impeller is not properly fixed to the shaft.	Tighten the impeller.
	d) Incorrect direction of rotation. See section 3.4 <i>Checking the direction of rotation</i> .	Reverse the direction of rotation.
	e) Incorrect setting of the level switch.	Adjust the level switch.
	f) The pump is too small for the application.	Replace the pump.
	g) The impeller is worn.	Replace the impeller.

Fault	Cause	Remedy
4. The pump runs but gives no water.	a) The pump is blocked by impurities.	Clean the pump.
	b) The outlet pipe or valve is blocked by impurities.	Clean the outlet pipe or valve.
	c) The impeller is not properly fixed to the shaft.	Tighten the impeller.
	d) There is air in the pump.	Vent the pump and the outlet pipe.
	e) The liquid level is too low. The pump inlet is not completely submerged in the pumped liquid.	Submerge the pump in the liquid or adjust the level switch.
	f) Pumps with float switch: The float switch does not move freely.	Adjust the float switch. See section 3.2.7 <i>Adjusting the float switch cable length</i> .

## 8. Technical data

### 8.1 Storage temperature

Down to -30 °C.

### 8.2 Operating conditions

Minimum liquid temperature	0 °C
Maximum liquid temperature	40 °C
Installation depth	Maximum 7 m below liquid level
pH value	4-10
Density	Maximum 1100 kg/m <sup>3</sup>
Viscosity	Maximum 10 mm <sup>2</sup> /s
Maximum particle size	Max. spherical diameter: Unilift AP35B: 35 mm Unilift AP50B: 50 mm
Technical data	See the pump nameplate.



Always have at least 3 m free cable above liquid level. This limits the installation depth to 7 m for pumps with 10 m cable and to 2 m for pumps with 5 m cable.

### 8.3 Sound pressure level

The sound pressure level of the pump is lower than the limiting values stated in the EC Council Directive 2006/42/EC relating to machinery.

## 9. 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.



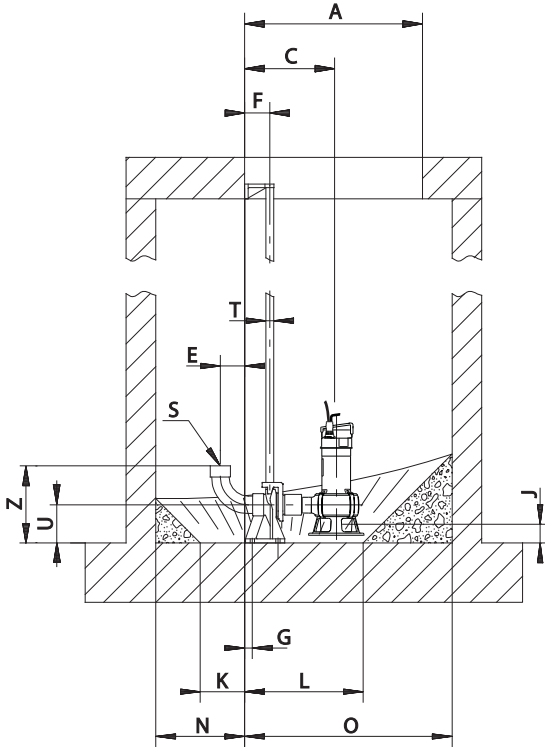
The crossed-out wheellie bin symbol on a product means that it must be disposed of separately from household waste. When a product marked with this symbol reaches its end of life, take it to a collection point designated by the local waste disposal authorities. The separate collection and recycling of such products will help protect the environment and human health.

See also end-of-life information at [www.grundfos.com/product-recycling](http://www.grundfos.com/product-recycling).

Appendix

1-pump installation on auto-coupling

Fig. A

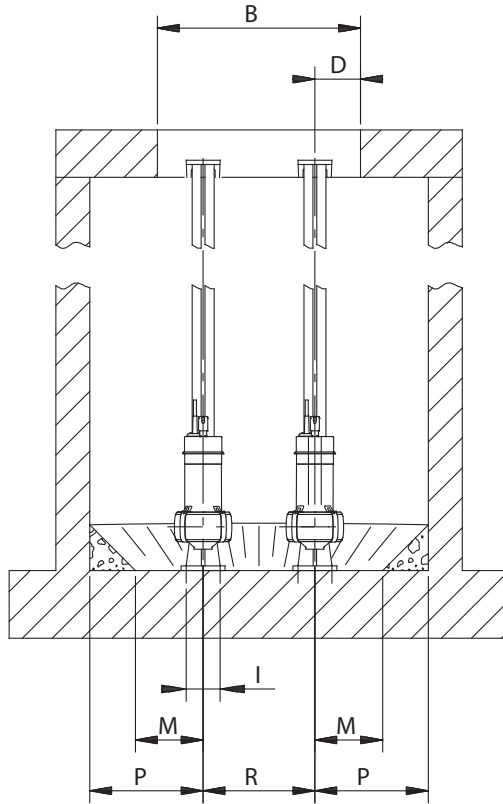


A	B	C	D	E	F	G	I	J	K
Ø600	Ø600	304	135	82	85	65	100	63	150
L	M	N	O	P	R	S	T	U	Z
400	200	300	700	500	-	R 2	3/4"	130	261

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2-pump installation on auto-coupling

Fig. B

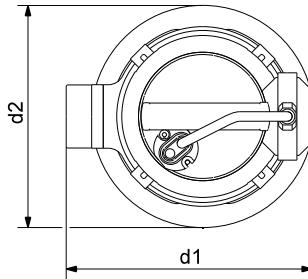
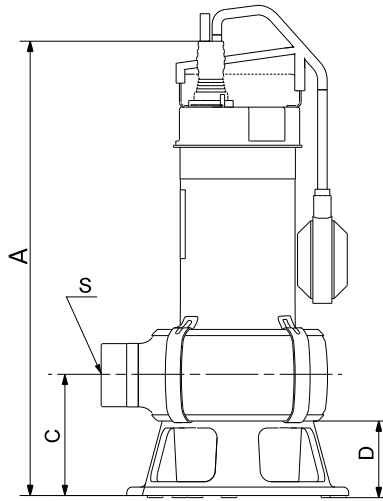


A	B	C	D	E	F	G	I	J	K
600	600	304	135	82	85	26	100	63	150
L	M	N	O	P	R	S	T	U	Z
400	200	300	700	335	330	R 2	3/4"	130	261

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Free-standing Installation

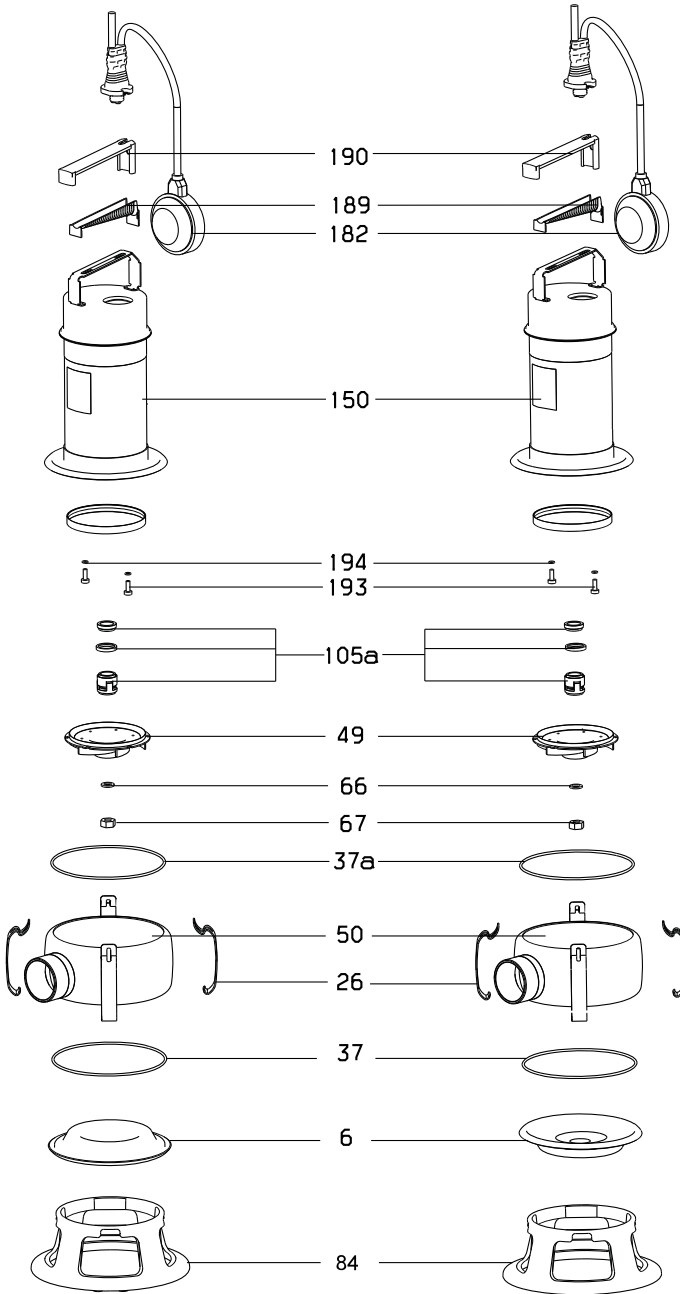
Fig. C



	A	C	D	S	d1	d2
<b>Unilift AP35B ≤ 600 W</b>	430	116	73	R 2	234	210
<b>Unilift AP35B &gt; 600 W Unilift AP50B</b>	455	116	73	R 2	234	210

TM03 4196 1806

Fig. D



**Argentina**

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