

Unilift KP 150, KP 250, KP 350

Installation and operating instructions



Other languages

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GRUNDFOS X

English (GB) Installation and operating instructions

Original installation and operating instructions

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Warning

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



Warning

The use of this product requires experience with and knowledge of the product.

Persons with reduced physical, sensory or mental capabilities must not use this product, unless they are under supervision or have been instructed in the use of the product by a person responsible for their safety.

Children must not use or play with this product.

1. Symbols used in this document



Warning

If these safety instructions are not observed, it may result in personal injury.



Caution

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



Note

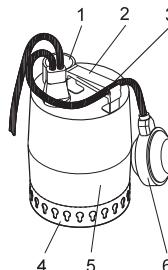
Notes or instructions that make the job easier and ensure safe operation.

2. Unilift KP pumps

Grundfos Unilift KP pumps are available in these versions:

- Unilift KP-A with float switch (automatic operation)
- Unilift KP-AV with vertical level switch (automatic operation)
- Unilift KP-M without level switch (manual operation).

Unilift KP-A with float switch



Unilift KP-AV with vertical level switch

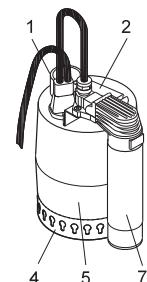


Fig. 1 Pumps with level switch

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Pos. Description

1	Outlet, Rp 1 1/4
2	Handle
3	Cable clamp
4	Inlet strainer
5	Pump sleeve
6	Float switch
7	Vertical level switch

3. Applications

Unilift KP 150, KP 250 and KP 350 are single-stage submersible pumps designed for the pumping of grey wastewater.

The pump can pump water with a limited content of solid particles up to 10 mm diameter without being clogged or damaged.

The pump can be used for automatic as well as manual operation and is suitable for both permanent and temporary use.

The pump is suitable for these applications:

- pumping in drain tanks
- pumping of wastewater from washing machines, baths, sinks, etc. from low-lying parts of buildings up to sewer level
- drainage of flooded cellars or buildings
- pumping in surface water drain tanks with inlets from roof gutters, tanks, tunnels, etc.
- emptying of swimming pools, ponds or fountains.

Warning

 Do not use the pump in or at swimming pools, garden ponds, etc. when there are persons in the water.

3.1 Pumped liquids

The pump is not suitable for these liquids:

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

Note The pump contains approx. 70 ml of non-toxic rotor liquid which will be mixed with the pumped liquid in case of a leak.

4. Functions

Unilift KP-A

Automatic on/off operation via a float switch.

Unilift KP-AV

Automatic start/stop operation via vertical level switch.

Unilift KP-M

Manual operation via external on/off switch.

5. Operating conditions

Liquid temperature

Minimum 0 °C.

The maximum liquid temperature depends on the rated voltage of the pump. See the table below.

Voltage	Maximum liquid temperature [°C]
1 x 100 V, 50 Hz	35
1 x 110 V, 50 Hz	40
1 x 100-110 V, 50 Hz ¹⁾	40
1 x 220-230 V, 50 Hz	50
1 x 220-240 V, 50 Hz, 50 Hz ¹⁾	50
1 x 230-240 V, 50 Hz	50
1 x 100 V, 60 Hz	35
1 x 115 V, 60 Hz	50 ²⁾
1 x 220 V, 60 Hz	40
3 x 200 V, 50 Hz	35
3 x 380-400 V, 50 Hz ¹⁾	50
3 x 380-415 V, 50 Hz	50
3 x 200 V, 60 Hz	35

At intervals of at least 30 minutes, the pumps may, however, run at maximum 70 °C for periods not exceeding 2 minutes.

¹⁾ Voltage variant for Unilift KP 350.

²⁾ KP 350: 45.

Storage temperature

-20 - +70 °C.

Installation depth

Maximum 10 m below liquid level.

Always have at least 3 m free cable above liquid level. This limits installation depth to

Caution 7 m for pumps with 10 m cable and to 2 m for pumps with 5 m cable.

Pumps with 3 m cable are for industrial applications only.

5.1 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.

6. Installation

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

Caution Never lift the pump by the power supply cable. Lift the pump using the pipe/hose or a rope secured to the pump handle.

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

6.1 Space requirements

6.1.1 Unilift KP-A

If the pump is installed in a tank, the minimum dimensions of the tank must be as shown in fig. 2 to ensure free movability of the float switch. Figure 3 shows a pump with vertical level switch.

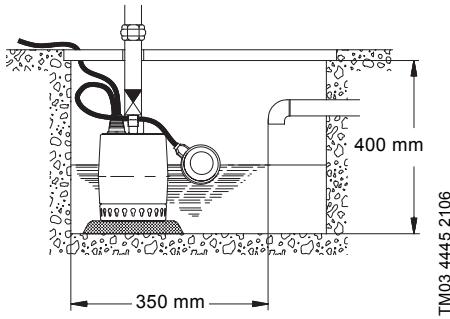


Fig. 2 Minimum tank dimensions, Unilift KP-A

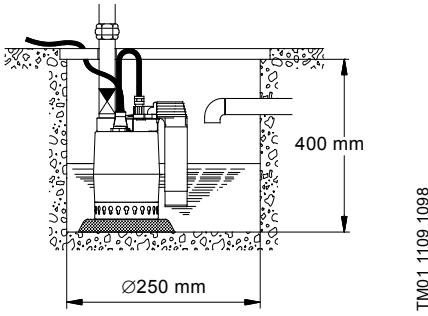


Fig. 3 Minimum tank dimensions, Unilift KP-AV

6.1.2 Unilift KP-M

The pump requires no more space than the physical dimensions of the pump. See page 10.

6.2 Pump positions

Unilift KP-A and Unilift KP-M can be used in vertical position with the outlet pointing upwards. The pumps may also be used in horizontal or tilted position with the outlet as the highest point. See fig. 4.

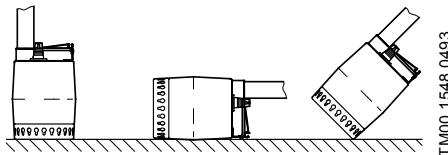


Fig. 4 How to place Unilift KP-A and Unilift KP-M

Caution Always place Unilift KP-AV in vertical position.

Place the pump so that the inlet strainer is not covered in sludge, mud or similar materials. You can ensure this by placing the pump on bricks, an iron plate, or similar. See fig. 5.

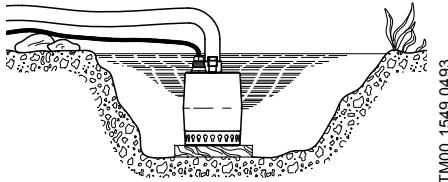


Fig. 5 Pump placed on a plate

6.3 Pipe connection

Fit the outlet pipe or hose in the Rp 1 1/4 outlet. Steel pipes can be screwed directly into the pump outlet.

In a permanent installation, fit a union to the outlet pipe to facilitate mounting and removal. If a hose is used, fit a hose union.

Caution The pump must not be installed hanging from the outlet pipe.

In a permanent installation with level switch, fit a non-return valve to the outlet pipe or hose.

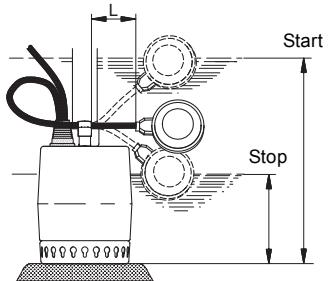
6.4 Start/stop level

6.4.1 Unilift KP-A

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

- A long free cable length gives fewer starts/stops and a large level difference.
- A short free cable length gives frequent starts/stops and a small level difference.

To enable the float switch to start and stop the pump, the free cable length (L) must be minimum 70 mm and maximum 150 mm. See fig. 6.



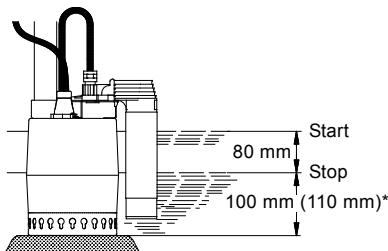
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Fig. 6 Start/stop levels, Unilift KP-A

Pump type	Cable length (L) min. 70 mm		Cable length (L) max. 150 mm	
	Start [mm]	Stop [mm]	Start [mm]	Stop [mm]
Unilift KP 150 A	290	140	335	100
Unilift KP 250 A				
Unilift KP 350 A	300	150	345	110

6.4.2 Unilift KP-AV

The level difference for pumps with vertical level switch cannot be adjusted. Start/stop levels appear from fig. 7.



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Fig. 7 Start/stop levels KP-AV

* Unilift KP 350.

6.5 Electrical connection

The electrical connection must be carried out in accordance with local regulations and standards. Check that the mains voltage and frequency correspond to the values stated on the pump nameplate.

Warning

The pump must be connected to an external mains switch with a minimum contact gap of 3 mm in all poles.

As a precaution, all pumps must be connected to a socket with earth connection.

Warning

The protective earth of the socket outlet must be connected to the protective earth of the pump. The plug must therefore have the same PE connection system as that of the socket outlet. If not, use a suitable adapter.

Warning

The installation must be fitted with an earth leakage circuit breaker (ELCB) with a tripping current less than 30 mA.

The pump motor incorporates thermal overload protection and requires no additional motor protection.

If the motor is overloaded, it will stop automatically.

Note When the motor has cooled to normal temperature, it restarts automatically.

Motors for Unilift KP 350, 3 x 200 V, 50 Hz, must be connected to a motor-protective circuit breaker.

Three-phase pumps with float switch (Unilift KP-A) must be connected to the mains supply by means of a contactor. See fig. 8.

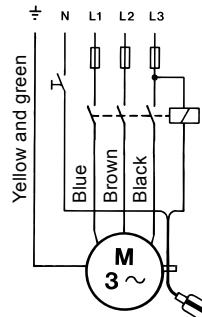


Fig. 8 Wiring diagram

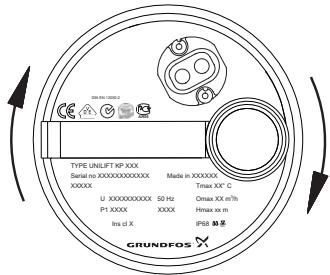
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6.5.1 Checking the direction of rotation

Three-phase pumps only

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

1. Place the pump on a plane surface.
2. Start and stop the pump.
3. Observe the pump when started. If the pump gives a slight clockwise jerk, see fig. 9, the direction of rotation of the motor is correct. If the jerk is counter-clockwise, interchange two phases in the mains connection.



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Fig. 9 Direction of rotation

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

1. Start the pump and check the quantity of water.
2. Stop the pump and interchange two phases in the mains connection.
3. Start the pump and check the quantity of water.
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.

7. Operation

7.1 Unilift KP-A

The pump will start and stop automatically, depending on the liquid level and the cable length of the float switch.

Forced operation

If the pump is used for draining liquid below the stop level of the float switch, the float switch can be held in a higher position by fastening it to the outlet pipe. During forced operation, check the liquid level regularly to avoid dry running.

7.2 Unilift KP-AV

The pump starts and stops automatically depending on the liquid level.

7.3 Unilift KP-M

The pump is started and stopped via an external switch.

To avoid dry running, check the liquid level regularly during operation, for instance via external level monitoring.

To enable the pump to self-prime during startup, the liquid level must be at least 30 mm.

The pump can pump down to a liquid level of 15 mm.

8. Maintenance

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

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

Warning

For safety reasons the inlet strainer must always be fitted to the pump during operation.



Never dismantle the pump unless the power supply has been switched off.

Be careful during dismantling as you will get access to sharp edges, etc., which may cause cuts. Wear protective gloves.

8.1 Cleaning the pump

Warning

Before starting any work on the product, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

If the pump delivers too little water due to deposits or the like, dismantle and clean the pump:

1. Disconnect the power supply.
2. Drain the pump.
3. Remove the inlet strainer.
 - Press a screwdriver in between the pump sleeve and the strainer and press hard. Do the same in several places along the strainer until it is pried loose and can be removed. See fig. 10.

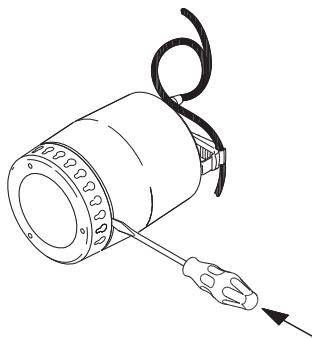


Fig. 10 How to remove the inlet strainer

4. Clean the inlet strainer and fit it.

If the pump still delivers too little water, dismantle the pump further.

1. Disconnect the power supply.
2. Remove the inlet strainer. See point 3 above.
3. Turn the pump housing 90 ° counter-clockwise using a screwdriver. See the arrow on the pump housing.
4. Pull off the pump housing. See fig. 11.

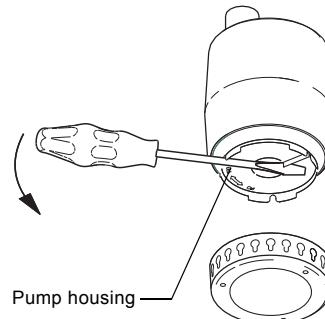


Fig. 11 How to remove the pump housing

5. Clean and flush the inside of the pump to remove possible impurities between motor and pump sleeve.
6. Clean the impeller. See fig. 12.

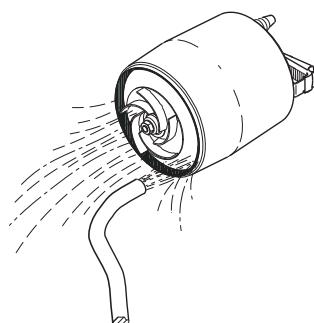


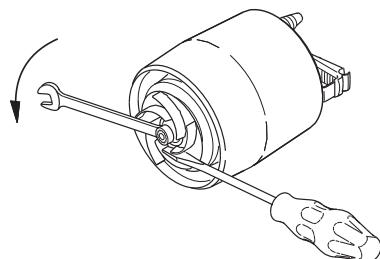
Fig. 12 How to flush the pump

7. Check that the impeller can rotate freely. If not, remove the impeller. See point 6.

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8. Unscrew the nut (cross width 13 mm) from the motor shaft. Use a screwdriver to prevent the impeller from turning. See fig. 13.



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Fig. 13 How to remove the impeller

9. Clean the impeller and clean around the shaft.
10. Check the impeller, the pump housing and the sealing part. If necessary, replace defective parts.
11. Assemble the pump in the reverse order of the dismantling.

Before and during the mounting of the pump housing, check that the sealing part is fitted correctly. See fig. 14.

Moisten the sealing part with water to ease the fitting.

8.2 Service

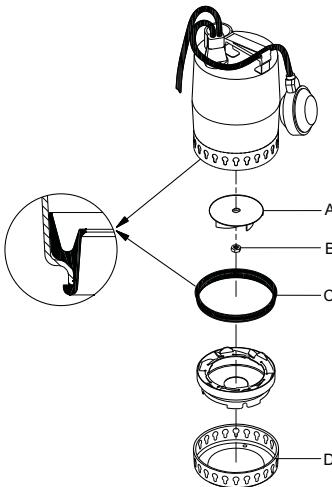
The impeller, the inlet strainer and the non-return valve are replaceable.

Order numbers for the ordering of service kits and contents of service kits appear from the tables below and fig. 14.

Pump type	Part number
Impeller kit	
Unilift KP 150	015778
Unilift KP 250	015779
Unilift KP 350	015787
Inlet strainer	
Unilift KP 150	96548064
Unilift KP 250	
Unilift KP 350	96548066
Non-return valve	
Unilift KP 150	
Unilift KP 250	15220
Unilift KP 350	

Service kits	Pos.	Designation	Quantity
Impeller kit	A	Impeller	1
	B	Nut	1
	C	Sealing part	1
Inlet strainer	D	Inlet strainer	1

If other pump components are damaged or defective, contact the pump supplier.



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Fig. 14 Service parts

Note The cable and level switch must be replaced by an authorised Grundfos service workshop.

9. Fault finding the product

Warning

 Before starting any work on the product, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

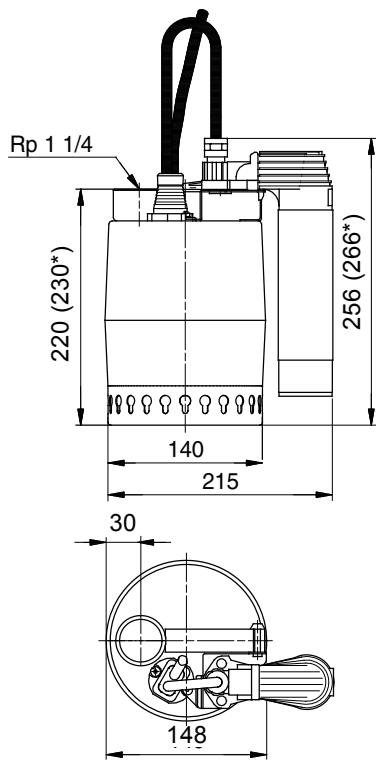
Fault	Cause	Remedy
1. The motor does not start.	a) No power supply. b) The pump was stopped by the level switch. c) The fuses have blown. d) The thermal switch has tripped.	Connect the power supply. Unilift KP-A: Start the pump by lifting the float switch. See section 7.1 Unilift KP-A . Replace the fuses. Wait until the thermal switch cuts in again or let the pump cool off. See section 6.5 Electrical connection .
2. The thermal switch trips after a short time of operation.	a) The liquid temperature is too high. See section 5. Operating conditions . b) The pump is partly blocked by impurities. c) The pump is mechanically blocked.	The pump starts automatically after sufficient cooling. Clean the pump. See section 8. Maintenance . Remove the blockage. See section 8. Maintenance .
3. The pump runs but delivers too little water.	a) The pump is partly blocked by impurities. b) The outlet pipe/hose is partly blocked. c) Wrong direction of rotation in three-phase pumps. See section 6.5.1 Checking the direction of rotation .	Clean the pump. See section 8. Maintenance . Check and clean the non-return valve, if fitted. Reverse the direction of rotation.
4. The pump runs but delivers no water.	a) The pump is blocked by impurities. b) The outlet pipe/hose is partly blocked. c) The liquid level is too low. During normal operation, the inlet strainer must be covered by the pumped liquid. d) Unilift KP-A: The free cable length of the float switch is too long.	Clean the pump. See section 8. Maintenance . Check and clean the non-return valve, if fitted. Lower the pump deeper into the liquid or adjust the level switch. Reduce the free cable length. See section 6.4 Start/stop level .

10. Disposal

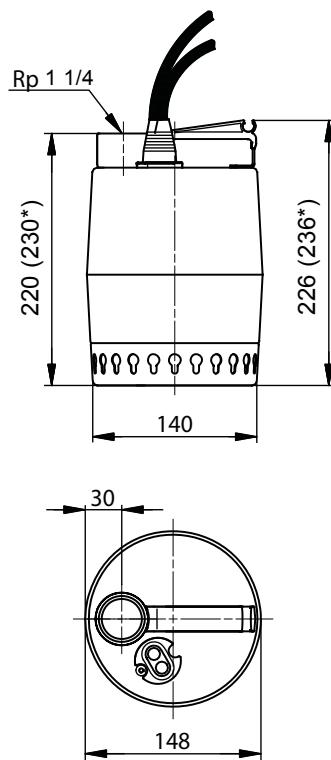
This product or parts of it must be disposed of in an environmentally sound way:

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**Unilift KP-AV**

* Unilift KP 350

Unilift KP-M

TM01 1523 4502

TM00 1642 1093

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