CONLIFT1 LS

Installation and operating instructions





CONLIFT1 LS Installation and operating instructions Other languages http://net.grundfos.com/qr/i/98491876



CONLIFT1 LS

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English (GB) Installation and operating instructions

Original installation and operating instructions

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1. General information

This appliance shall not be used by children.

Children shall not play with the appliance.

Cleaning and user maintenance shall not be carried out by children



Appliances can be used by persons with reduced physical, sensory, or mental capabilities, as well as persons with a lack of experience and knowledge. This requires that they are given supervision or instruction concerning the use of the appliance in a safe way and that they understand the hazards involved.



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

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

Consequence of ignoring the warning

• Action to avoid the hazard.

Description of the hazard

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. Product introduction

2.1 Product description

Grundfos CONLIFT1 LS is a small, compact lifting station with a built-in non-return valve.

2.2 Intended use

CONLIFT is designed for the pumping of condensate from the following:

- boilers
- air-conditioning systems
- cooling and refrigeration systems
- air dehumidifiers
- evaporators.

The product is suitable for the pumping of condensate which is collected below sewer level or which cannot flow to the sewage system or drain of the building by means of a natural downward slope.

WARNING Biological hazard

Death or serious personal injury

Use the product only to pump condensates.

The product can pump condensates not requiring neutralisation, that is with pH values of 2.5 or higher.

Condensates with pH values up to 2.5 must be neutralised before they leave the CONLIFT lifting station.

Boilers fired with the following fuels normally supply condensate with pH values up to 2.5:

- gas
- · liquid gas
- · low-sulphur fuel oil according to DIN 51603-1.

Irrespective of the capability of CONLIFT, local regulations may require the installation of a neutralisation unit, even for pH values of 2.5 or higher.

2.3 Operating mode

CONLIFT is designed for maximum 60 starts per hour.

S3 (intermittent operation): 30 % according to DIN EN 0530 T1.

This means that the system is running for 18 seconds and is stopped for 42 seconds.

2.4 Handling of condensates



If CONLIFT is to be connected to a pressure-reducing valve, observe the boiler manufacturer's instructions.



When cleaning heat exchangers and burner units of boiler systems, make sure that no acid and cleaning residuals enter the condensing unit.

Condensates from condensate boilers are very aggressive and will attack the material of the building's sewage system.

In order to protect the sewage system, we recommend that you use a neutralisation unit.

The local outlet regulations regarding condensates from boilers must be met.

Related information

A.1. Appendix

11. Technical data

2.5 Approvals and markings Marking



TM021695

Approvals



M060463

2.6 Accessories

The following accessories are available from your local Grundfos supplier.

Accessory/ service part	Description	Product number
Extension hose	6 metres of PVC hose with 10 mm internal diameter including one hose coupling.	97936177
Alarm PCB CONLIFT	Printed-circuit board (PCB) enabling additional pump start at alarm level or stop of boiler with acoustic alarm.	97936209

3. Receiving the product

3.1 Transport



WARNING Crushing hazard

Death or serious personal injury

Stack maximum two pallets together under transport.

4. Installation requirements



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

If not already integrated, a water trap (emission trap) must be fitted in all inlets.

CONLIFT is not designed for outdoor use.

5. Mechanical installation

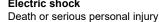
See also the quick guide supplied with CONLIFT. When installing CONLIFT, observe the following:

- · The condensate must run freely into the lifting station.
- The cooling slots in the motor cover must not be covered.
- The lifting station must be easily accessible in order to facilitate maintenance.
- The lifting station must be installed in a well-illuminated and well-ventilated room.

6. Electrical connection

DANGER

Electric shock





The protective earth (PE) of the power outlet must be connected to the protective earth of the product. The plug must have the same PE connection system as the power outlet.

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

The product must be connected to an external main switch with a minimum contact gap of 3 mm (0.12 inch) in all poles.

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.
- If the power cable is damaged, it must be replaced by the manufacturer, the manufacturer's service partner or a similarly qualified person.



Electrical connection must be carried out by an authorised electrician.

Carry out the electrical connection according to local regulations. Check that the supply voltage and frequency correspond to the values stated on the nameplate.

The power cable has a Schuko plug or a free cable end. The cable has a length of 2 metres.



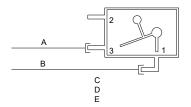
The electrical connection of a cable with a free cable end must be carried out by an authorised electrician.

6.1 Cable to condensate source or external alarm

CONLIFT has a safety overflow switch which can be connected to the condensate source or to an external alarm system. The switch is connected to an alarm cable with free cable end.

Alarm systems with a control voltage of 250 VAC, 2.5 A, can be

On delivery, the alarm cable is connected to terminals COM1 (brown) and NC2 (blue) of the safety overflow switch.



Wiring diagram

Pos.	Description
Α	Blue
В	Brown
С	1 = COM1
D	2 = NO4
E	3 = NC2

The alarm cable can be connected in two ways, depending on application:

Shutdown of condensate source

The safety overflow switch can be connected to a Class-II lowvoltage circuit. To enable shutdown of the condensate source, the COM1 and NC2 terminals of the safety overflow switch must be connected in series with the low-voltage thermostat circuit of the condensate source.

External alarm system

The COM1 and NO4 terminals can be used to close a lowvoltage alarm circuit. To activate an alarm, the COM1 and NO4 terminals of the safety overflow switch must be connected in series with the low-voltage alarm circuit.

7. Starting up the product



Start up CONLIFT in accordance with local regulations and accepted codes of good practice.

- 1. Check that all hoses and connections are tight.
- 2. Connect the power supply.

7.1 Checking the alarm

- To ensure that the alarm level is reached, squeeze the outlet hose or close the isolating valve, if fitted, and fill water into the tank. The pump will be started via the float switch.
- Continue filling water into the tank until the safety overflow switch is activated. If no external alarm is connected to CONLIFT, this function can be checked by means of a multimeter.



The safety overflow switch must be activated before the water starts running out of CONLIFT.

Stop filling water into the tank and stop squeezing the outlet hose. The alarm stops (the switch opens). The pump continues operating. When the stop level is reached, the pump stops.

After checking the alarm, push the inlet hose into the lifting station and let the condensate from the boiler or air-conditioning system run into the tank again.

8. Functions

The condensate runs by natural fall through a hose into the tank. The liquid level in the tank is controlled automatically by a float switch. A micro switch in the float switch will start the pump when the liquid level reaches the start level, and it will stop the pump again when the liquid level has fallen to the stop level. The condensate is pumped through the outlet hose to the drain.

CONLIFT also has a safety overflow switch with a 1.7-metre electric cable. This overflow switch can be connected to the condensate boiler and set to stop the boiler in case of an alarm.

CONLIFT has a thermal switch which stops the motor in case of overload. When the motor has cooled to normal temperature, it restarts automatically.

Related information

9. Service

9. Service

Always use original accessories from Grundfos to ensure safe and reliable operation.

WARNING

Electric shock



Death or serious personal injury

- Switch off the power supply before you

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



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

9.1 Maintaining the product



If the power cable is damaged, it must be replaced by the manufacturer, the manufacturer's service partner or similarly qualified person.

CONLIFT does not require any special maintenance, but we recommend that you check operation and pipe connections at least once a year and that you clean the collecting tank, if necessary.

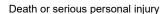
9.2 Service

Thanks to the CONLIFT design, service can easily be performed in case of malfunction or blocked pump.



Electrical connection must be carried out by an authorized electrician.

WARNING Electric shock



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

9.2.1 Servicing the product

See illustrations in the appendix.

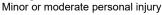
Make the following checks and clean the collecting tank, if necessary:

- 1. Disconnect the power supply.
- Cut off the flow of condensate from the boiler or other application, or stop the flow of condensate to CONLIFT.
- Make sure that the hoses are not mechanically or chemically damaged.
- Remove the outlet hose by turning the bayonet coupling, and check the O-ring. The condensate in the hose will not run out due to the non-return valve.
- 5. If the condensate is running out of the hose, check and clean the non-return valve.
- Press the side-locking catches and lift off the motor support. Place it in upright position.
- Remove deposits, dirt, algae and incrustations under running water

9.3 Contaminated products

CAUTION

Biological hazard



- Flush the product thoroughly with clean water and rinse the parts in water after dismantling.

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.

10. Fault finding

DANGER Electric shock



Death or serious personal injury

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

10.1 The pump does not run

Cause	Remedy	
No power supply.	Connect the power supply.	
A fuse is blown.	Replace the fuse (1 A slow- blow fuse).	
The power cable is damaged.	 Repair or replace the cable. This must only be carried out by an authorised service workshop or by Grundfos. 	
The thermal overload switch has tripped:	The motor is not sufficiently cooled. Clean the cooling slots in the motor cover.	
	 Deposits in the pump. Clean the impeller, pump housing and the entire lifting station. 	

10.2 Reduced or no performance

Cause	Remedy
The outlet hose is squeezed or broken.	Straighten the outlet hose or replace it. The bending radius of the hose must be at least 60 mm.
The non-return valve does not open.	Remove the outlet connection, and clean the non-return valve.
The motor fan cannot be turned freely.	Clean the pump housing and the impeller.

10.3 Frequent starts and stops

Cause	Remedy
The non-return valve does not close.	Remove the outlet connection, and clean the non-return valve.
The inlet quantity is too high.	Make sure the inlet quantity is correct.

10.4 Alarm

Cause	Re	emedy
The condensate is not pumped out of the tank.	•	Refer to steps 10.1 and 10.2.

Related information

10.1 The pump does not run

10.2 Reduced or no performance

11. Technical data

Supply voltage	1 × 230 VAC -6 % /+6 %, 50 Hz, PE			
Input power	P1 = 70 W			
Input current	I = 0.65 A.			
Alarm connection	An external alarm can be connected via the safety overflow switch. The cable can stand a control voltage of 250 VAC, 2.5 A.			
Cable lengths	Power cable: 2.0 m Alarm cable: 1.7 m			
Storage temperature	Store in a dry room. Empty tank: -10 °C to +50 °C Tank with condensate: above 0 °C (risk of frost not allowed)			
Ambient temperature	During operation: 5-35 °C			
Liquid temperature	Average temperature: 50 °C			
Max. head	5.5 m			
Max. flow rate	600 l/h			
pH value of condensate	2.5 or higher			
Density of condensate	Max. 1000 kg/m ³			
Motor protection	Thermal overload switch: 120 °C Insulation class: F			
Enclosure class	IP20			
Weight	3.8 kg			
Volume	 Tank volume: 2.65 l Useful volume: 0.9 l Alarm condition: 2.1 l Operating condition: 1.7 l 			

12. 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 wheelie 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.

13. Document quality feedback

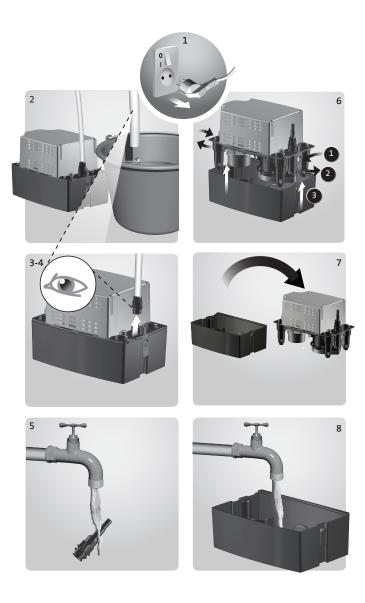
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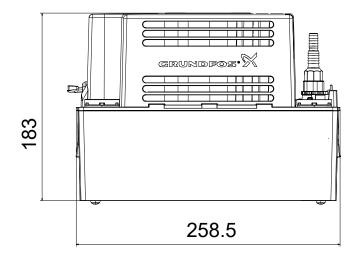
A.1. Appendix

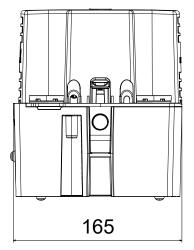
CONLIFT1 LS

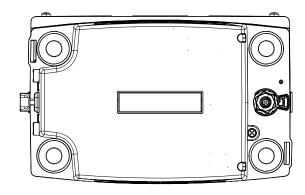


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Dimensions, Conlift1 LS







TM051227

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