WIPCOOL®
TWÓJ KLUCZ DO KOMFORTU

OPERATING MANUAL · ENGLISH

CDS24

Flushing pump for heat exchangers and central heating systems

Read this manual before use. Keep it with the unit for its entire service life.



Read the manual
Safety and connection rules before the first start-up.

Service and warranty
Service requests and warranty terms at wipcool.eu.

Documents online
Manual, data sheet and declaration of conformity at wipcool.eu.

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How to use this manual

Find the chapter you need. The numbers on the right are the pages of this booklet.

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MEANING OF SYMBOLS



Separate collection of WEEE

Do not dispose of used equipment with household waste.



CE marking

Manufacturer's declaration of conformity with EU requirements.



Read the manual

Safety and operating rules before starting work.

Wipcool CDS24 user manual

The Wipcool CDS24 pump is designed to clean and descale closed systems, including central heating systems and heat exchangers in HVAC systems. The integrated tank is used to prepare and circulate the cleaning solution.

The user manual is an integral part of the product. Please read this manual carefully and follow all instructions closely.

General information

Wipcool products are designed for professional use by qualified air conditioning and refrigeration technicians. As the manufacturer, Wipcool specifies that our equipment should only be operated by appropriately qualified and trained persons.

- Follow all local safety regulations and general safety standards when using the Wipcool CDS24 descaling pump for heat exchangers and central heating systems.
- The user manual should be kept near the device so that personnel can access it easily at all times.
- Before use, qualified personnel should read the user manual carefully and understand all the instructions it contains.
- The manufacturer accepts no liability for any damage resulting from improper use, failure to follow the user manual, lack of personnel qualifications or any unauthorised modifications to the device.
- The general terms of sale contained in the sales documents apply.

Symbols and conventions

Signs and markings used on the device and in the manual:

01



Warning - read the text in the box next to the symbol.

02



Dangerous voltage - risk of electric shock.

03



Hot surface - wait for it to cool before touching.

04



Warning of fire or explosion in the presence of flammable materials.

05



Notice - risk of damage to the device or an incorrect result.

06



Indicates that the product meets the health, safety and environmental standards applicable in the European Union.

07



Do not dispose of the pump with household waste.

OFF / O means the pump is switched off, and I means it is switched on. MAX indicates the maximum liquid level in the tank.

Safety information

WARNING

Descaling products can be toxic and cause burns. Contact with contaminants in the system can cause infections. During inspection, operation and maintenance, wear safety glasses, rubber or latex gloves and protective clothing suitable for the product. Depending on the hazards, goggles or a face shield, respiratory protection and steel-toe safety footwear may also be required.

WARNING
Do not work in the presence of flammable liquids, vapours or dust. Do not pump flammable liquids. The pump is not explosion-proof and may produce sparks. Remove sources of danger before starting work.

WARNING
Do not work while standing in water. Remove water from the work area. The socket must have a functional protective earth and a voltage matching the pump rating plate. If in doubt, have the socket checked by an electrician.

General rules

- Do not leave the pump running unattended.
- Use original accessories.
- Select a product containing an anti-foaming additive that is compatible with the system being cleaned and with the pump. Follow the product instructions and safety data sheet; obtain any missing information from its manufacturer.
- Assess the condition of the system before descaling. A system that has been incorrectly designed, installed or maintained may be damaged during cleaning. The pump may not remove all deposits.
- Work in a well-lit, clean, level, stable and dry area. Provide space for the pump and operator and ensure adequate ventilation. Avoid contact of chemicals with skin and eyes and do not inhale vapours.
- If necessary, set up barriers to restrict access by bystanders. Bystanders may be sprayed with the product or distract the operator.

Technical specifications

Parameter	Value
Model	CDS24
Power supply	230 V~ / 50–60 Hz
Motor output power	0.37 kW
Maximum flow rate	33 l/min
Max. head	24 m
Tank capacity	15 l
Hose length	2 × 2 m

Parameter	Value
Dimensions (L × W × H)	420 × 356 × 405 mm
Device weight	11.5 kg
Protection class	I
Operating temperature	5–40 °C
Storage temperature	5–40 °C
Maximum continuous operating time	2 h
Rest period after continuous operation	30 min

Device diagram



Figure 1. CDS24 pump components - numbers 1–8.

No.	Name
1	Motor
2	Power switch
3	Tank lid
4	Tank
5	Carrying handle

No.	Name
6	Outlet port
7	Return port (either of the two)
8	Drain port

Package contents

CDS24 pump with user manual (1 pc.) and the following accessories:

01



2 m hose 2 pcs.

02



Quick-release coupling 4 pcs.

03



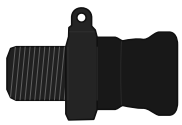
3/4" FFL - 1/2" FFL adapter 2 pcs.

04



Hose clamp 4 pcs.

05



1/2" MFL quick-release coupling 2 pcs.

06



3/4" MFL - 1/2" FFL adapter 2 pcs.

After unpacking, check that the set is complete and in good condition. Report any missing items or transport damage to the seller.

Transport and storage

- After completing the steps in ‘Finishing work’, coil the capped hoses. Make sure all parts are dry before putting them into storage.
- Do not throw the pump during transport. Protect it from shocks, excessive vibration, moisture, dust and extreme temperatures.
- Protect the pump from frost. Store it in a dry, well-ventilated room at 5–40 °C, away from direct sunlight and heat sources. If stored outdoors, cover it thoroughly.
- Store the pump in a locked location, out of reach of children and untrained persons.

Application

The pump is designed for cleaning, flushing and descaling closed hydraulic and pipework systems, as well as hot water cylinders, boilers and heat exchangers. During servicing and regular maintenance, it can be used to clean wall-mounted boilers, underfloor heating, radiators, heat pumps, water heaters and small water-cooled condensers.

Connection

Pre-use inspection

- Disconnect the pump from the power supply and inspect the cable and plug. Do not use the device with a modified plug or a damaged cable.
- Clean the pump, particularly the carrying handle and power switch, so that they do not slip in your hands.

- Check that all parts are present and correctly assembled, inspect their condition and check that moving parts are not misaligned or jammed. Check the hoses, connections and ports for wear and damage, and the hoses for kinks, cuts and cracks. Make sure the hoses and connections are correctly fitted and clear of obstructions.
- Check other equipment in use according to its instructions. Do not start the pump until all faults have been corrected.

Preparing the system

> **WARNING**
> Before opening the system, disconnect its heat source and cool the system to a temperature well below 50 °C. Release the pressure, shut off the supply and drain the system.

- Identify the connection points, drains and other connected systems.
- Prepare the system according to its maintenance and operating instructions. Vented systems may require the pipes to be capped or connected in a loop. Protect expansion vessels appropriately.

Extension lead and residual current protection

If the pump cable does not reach the socket, use an extension lead in good condition with a plug that fits the socket and a protective earth conductor. For outdoor work, select an extension lead marked as suitable for those conditions.

Extension lead length	Minimum conductor cross-sectional area
Up to 15 m	1.5 mm²
Over 15 m up to 30 m	2.5 mm²

If the socket is not protected by a residual current device (RCD), use a portable RCD between the socket and the extension lead to reduce the risk of electric shock if the cable is damaged.

Connecting the pump

01 Set the power switch to OFF / O (off) and make sure the plug is disconnected.

02 Connect the outlet hose to the pump outlet port and the return hose to one of its return ports. Connect the other ends of the hoses to the inlet and outlet of the prepared system, forming a closed circuit. Use adapters if necessary. Do not overtighten the connections.

03 Route the power cable where it will not be exposed to damage. With dry hands, connect the plug to an earthed socket. Keep all electrical connections dry and off the ground.

Instructions for use

WARNING
During operation, leave the tank lid open to observe the liquid level and allow gases produced during descaling to escape. Check the product instructions for the gases that may be produced and take the required safety precautions.

CAUTION
During testing and descaling, the pump impeller housing must be submerged and the liquid level must not exceed the MAX mark. Monitor the level throughout operation and top up the liquid as necessary.

Clean water test

01 After connecting the entire circuit, fill the tank with clean water.

02 Set the power switch to I. Allow air to escape from the system and the water flow to stabilise.

03 Check the hoses and connections for leaks. If you find a leak, set the power switch to OFF / O and disconnect the plug before repairing the leak. Repeat the test after repair.

04 After a successful test, switch off the pump and disconnect it from the power supply, then drain the water from the system and tank.

Descaling

CAUTION
After 2 h of continuous operation, switch off the pump for 30 min.

01 Fill the tank with descaling solution prepared according to the product instructions.

02 With dry hands, connect the plug and set the power switch to I to start circulating the solution.

03 If the solution foams excessively, switch off the pump and wait for the foam to subside. If foaming persists, it may be necessary to dilute the solution with water.

04 Determine when descaling is complete according to the product instructions. The process is usually complete when the circulating solution no longer produces foam or loses colour.

Finishing work

Drain, flush and handle the used solution according to the product instructions and applicable regulations.

01 Set the power switch to OFF / O and carefully drain the solution from the system.

02 Disconnect the pump from the power supply. Empty the tank and disconnect the hoses from the system.

03 Flush the pump, tank and hoses with clean water to remove any product residue. Drain them and cap the hoses.

04 Perform the final flush of the system according to the product instructions and the system user manual. Depending on the level of contamination, repeat the flush, then return the system to service.

Circuit examples

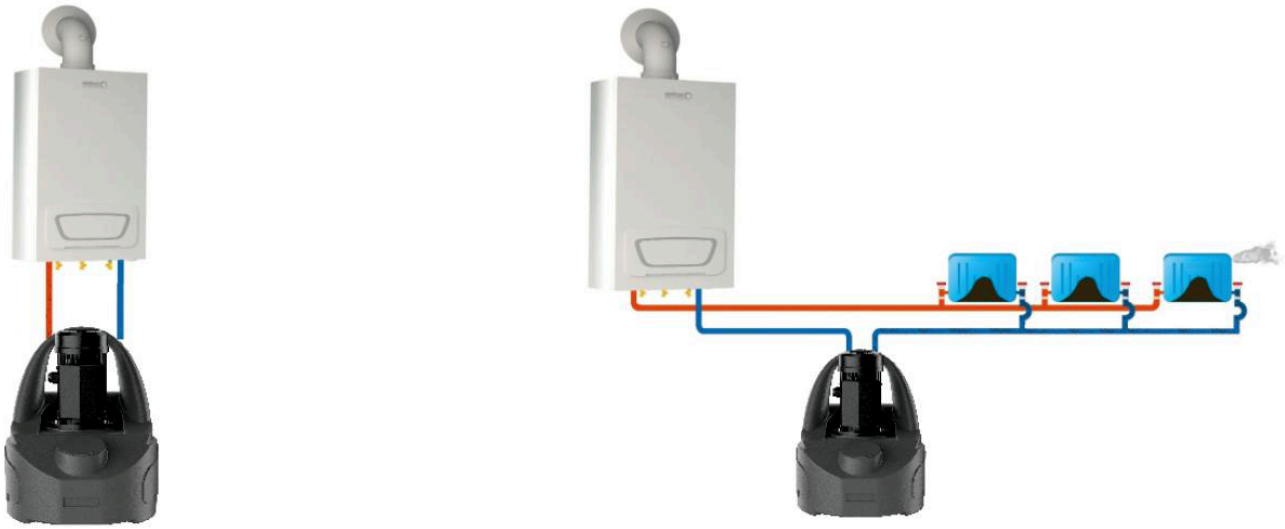


Figure 2. Left: descaling a single device. Right: descaling a device and system.

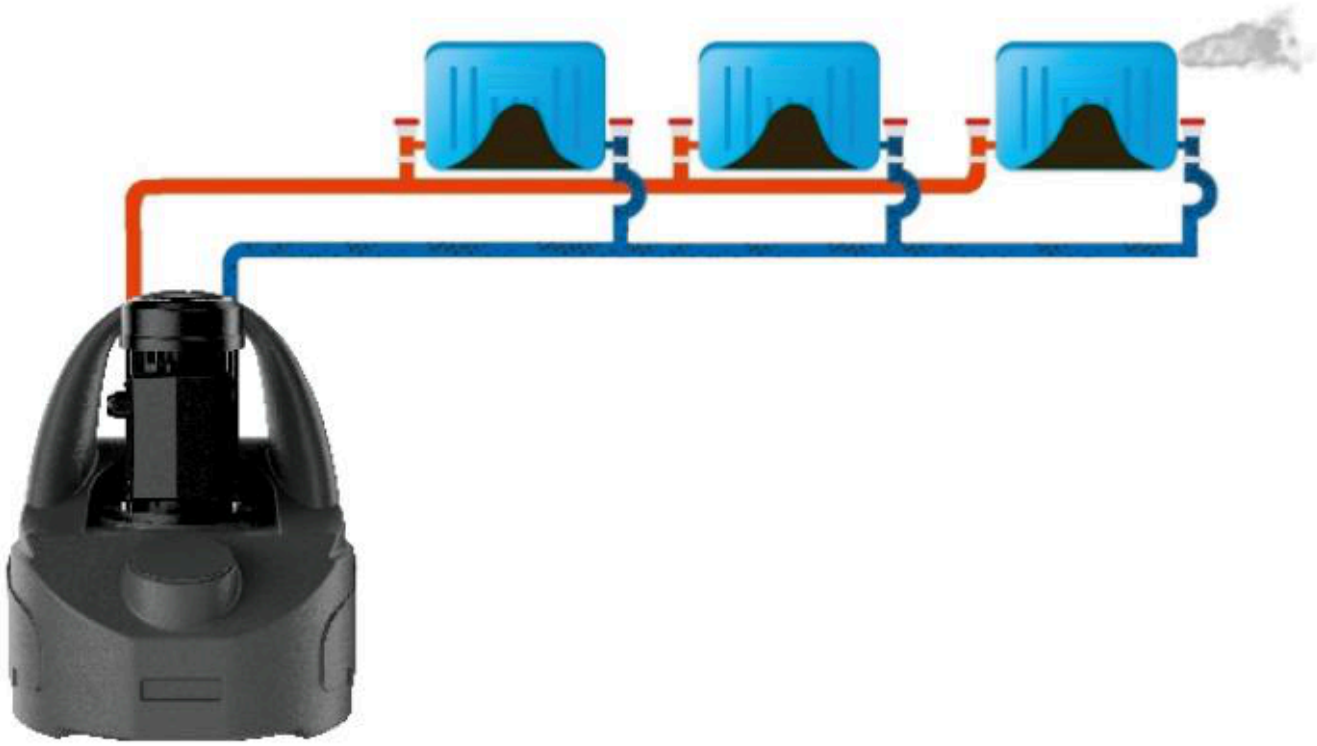


Figure 3. Descaling a system.

Maintenance

WARNING

Before maintenance, set the power switch to OFF / O and disconnect the plug. Do not immerse the pump or spray its housing with a hose. Keep water out of the motor and other electrical components.

- Wipe the housing with a soft, damp cloth. Do not use alcohol, petrol, solvents, corrosive substances, abrasives or strong detergents.
- Keep contaminants out of the pump. Check the condition of the hoses, connections and ports.
- After maintenance, check the condition of the pump, accessories and power cable, and perform an operational test as described in ‘Clean water test’.

Troubleshooting

Switch off the pump and disconnect it from the power supply before inspection or maintenance.

Problem	Possible cause	Solution
Device does not start	No power supply	Check that the plug is connected and that the socket has power.

Problem	Possible cause	Solution
Device does not start	Incorrect voltage	Check that the input voltage is within ±5% of the rated voltage.
Device does not start	Device overloaded	Check that the system valves are open and the hoses are not kinked.
Device does not start	Damaged power cable	Have the device repaired by the service centre - submit a service request at wipcool.pl/serwis.
Device does not start	Ambient temperature too low	Switch off the pump. Resume operation only in a location with a temperature of 5–40 °C.
No flow after starting	Insufficient water in the tank	Top up the water.
No flow after starting	System valve closed	Check the system and open the valve.
No flow after starting	Blocked water inlet	Check the hoses and connections for blockages; flush them with clean water. If flow is not restored, have the device repaired by the service centre - submit a service request at wipcool.pl/serwis.
No flow after starting	Air in the system	Bleed the system during the clean water test described in ‘Instructions for use’.
No flow after starting	Ambient temperature too low	Switch off the pump. Resume operation only in a location with a temperature of 5–40 °C.
Liquid leak	Loose connection	Tighten the connection.
Liquid leak	Leak from the pump	Have the device repaired by the service centre - submit a service request at wipcool.pl/serwis.
Liquid leak	Damaged seal	Have the device repaired by the service centre - submit a service request at wipcool.pl/serwis.
Noisy operation	Foreign object in the pump	Flush the pump, tank and hoses with clean water as described in ‘Finishing work’. If the noise persists, have the device repaired by the service centre - submit a service request at wipcool.pl/serwis.

Problem	Possible cause	Solution
Noisy operation	Worn internal components	Have the device repaired by the service centre - submit a service request at wipcool.pl/serwis.
Noisy operation	Motor overloaded	Stop the pump. Check that the system valves are open and the hoses are not kinked.
Noisy operation	Air being drawn in	Check the system for leaks and check the liquid level.
Noisy operation	Damaged internal components	Have the device repaired by the service centre - submit a service request at wipcool.pl/serwis.
Low performance	Contamination in the system	Clean the pipes and tank.
Low performance	Kinked or damaged hose	Check and reposition the hoses; replace any damaged hose.
Low performance	Worn pump components	Have the device repaired by the service centre - submit a service request at wipcool.pl/serwis.
Device switches off during operation	Overheating	Disconnect the device from the power supply and allow it to cool.
Device switches off during operation	Continuous operating time too long	Observe the operating time and rest period specified in ‘Descaling’.

Waste electrical and electronic equipment

01



The crossed-out bin symbol means that the used device must not be disposed of with other waste.

Under applicable regulations on waste electrical and electronic equipment, products marked with the separate collection symbol must not be disposed of with other municipal waste. Because they contain harmful substances, electronic products that are not separately sorted may pose a risk to the environment and human health. Proper separate collection of waste electrical and electronic equipment prevents adverse effects on the environment.

By taking used equipment to a collection point, the user contributes to its reuse, recycling and recovery.

Recycling - one method of protecting the environment. The process of recovering substances from waste that can be reused as raw materials.

Waste recovery - the use (also commonly understood as destruction) of waste that has lost its use value, such as plastics, paper and cardboard, as secondary raw materials.

Information on the collection system for waste electrical and electronic equipment

- Waste electrical and electronic equipment must not be disposed of with other waste.
- The collection of incomplete electrical and electronic equipment and parts from waste equipment is prohibited.
- A distributor delivering equipment intended for households to a buyer must collect waste household equipment free of charge at the place of delivery, provided that the waste equipment is of the same type and performs the same function as the equipment delivered.
- The user can hand over waste equipment to a waste equipment collector, a treatment facility or a municipal waste collector in the municipality.
- Information on collection points is available on the Public Information Bulletin (BIP) websites of regional, city and municipal authorities.

Service and documents

Before submitting a service request, prepare:

- Model - shown on the device nameplate and on the invoice.
- Serial number - if there is none, provide the production number (e.g. 11/2025), usually found on the bottom of the device.
- Proof of purchase - an invoice or receipt from an authorised distributor.
- Description of the fault - what is happening, when it started and under what conditions.

You can submit a service request at wipcool.pl/serwis. You will also find the warranty terms there.

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SERVICE AND DOCUMENTS

CDS24 · Operating manual

EDITION DETAILS

Model	**CDS24**
Edition	**06.11.2026 · EN**
Manufacturer	**Zhejiang Wipcool Refrigeration Equipment Co., Ltd.**
Authorised representative	**4REF sp. z o.o., ul. gen. Władysława Andersa 38, 15-113 Białystok**

wipcool.eu

- online manual and other languages
- data sheet and declaration of conformity
- service and requests

CE

The CE marking confirms the declared conformity with EU requirements.
Crossed-out bin: do not dispose of used equipment with household waste.