WIPCOOL®
TWÓJ KLUCZ DO KOMFORTU

OPERATING MANUAL · ENGLISH

2F0BR

Cordless Vacuum Pumps

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 2F0BR / 2F1BR / 2F2BR user manual

The Wipcool 2F0BR, 2F1BR and 2F2BR two-stage vacuum pumps are designed to create a vacuum in closed systems. They are rotary vane pumps powered by an 18 V battery.

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

General information

Wipcool products are designed for professional use by qualified air conditioning and refrigeration engineers. As the manufacturer, Wipcool stipulates that our equipment should only be operated by suitably qualified and trained personnel.

- Observe all local safety regulations and general safety standards when using the Wipcool 2F0BR / 2F1BR / 2F2BR vacuum pump.
- The user manual should be kept near the device so that personnel can access it easily at any time.
- 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 and conditions of sale contained in the sales documents apply.

Symbols and conventions

Symbols 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



Warning of a fire or explosion hazard.

04



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

05



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

06



Do not dispose of the pump with household waste.

Safety information

WARNING
Do not use the pump in the rain. Water in the device can cause electric shock.

WARNING
Do not use the pump with R290 or R600a refrigerants.

WARNING
Do not draw in corrosive gases or gases that react chemically with oil.

- Use original accessories from the manufacturer.
- Protect the battery socket from impacts and mechanical loads. Do not use the pump if the socket is damaged.

- Operate at an ambient temperature of 0 °C to 50 °C. The temperature of the gas drawn in must not exceed 80 °C.

WARNING
Do not run the pump without oil or when the oil level is too low.

WARNING
If the pump stops because the battery is discharged and the protection has activated, turn it off immediately using the switch. Frequent attempts to restart it can damage the battery.

Technical specifications

Parameter	2F0BR	2F1BR	2F2BR
Power supply	18 V DC	18 V DC	18 V DC
Battery socket	AEG/RIDGID 18 V	AEG/RIDGID 18 V	AEG/RIDGID 18 V
Ultimate vacuum	15 microns (0.02 mbar)	15 microns (0.02 mbar)	15 microns (0.02 mbar)
Maximum flow rate	42 l/min	71 l/min	142 l/min
Power	approx. 190 W	approx. 190 W	approx. 370 W
Oil capacity	280 ml	280 ml	450 ml
Device weight	4.5 kg	4.5 kg	7.5 kg
Dimensions (L × W × H)	309 × 113 × 198 mm	309 × 113 × 198 mm	339 × 130 × 225 mm
Reference runtime with a 4.0 Ah battery	45 min	45 min	40 min
Operating temperature	0–50 °C	0–50 °C	0–50 °C
Maximum inlet gas temperature	80 °C	80 °C	80 °C

Device diagram

The pump has a vacuum gauge on top of the housing, an oil sight glass, a switch and a built-in solenoid valve. A tank protection device limits oil leakage if the pump is tilted. The oil filler cap also serves as an exhaust and limits oil discharge.

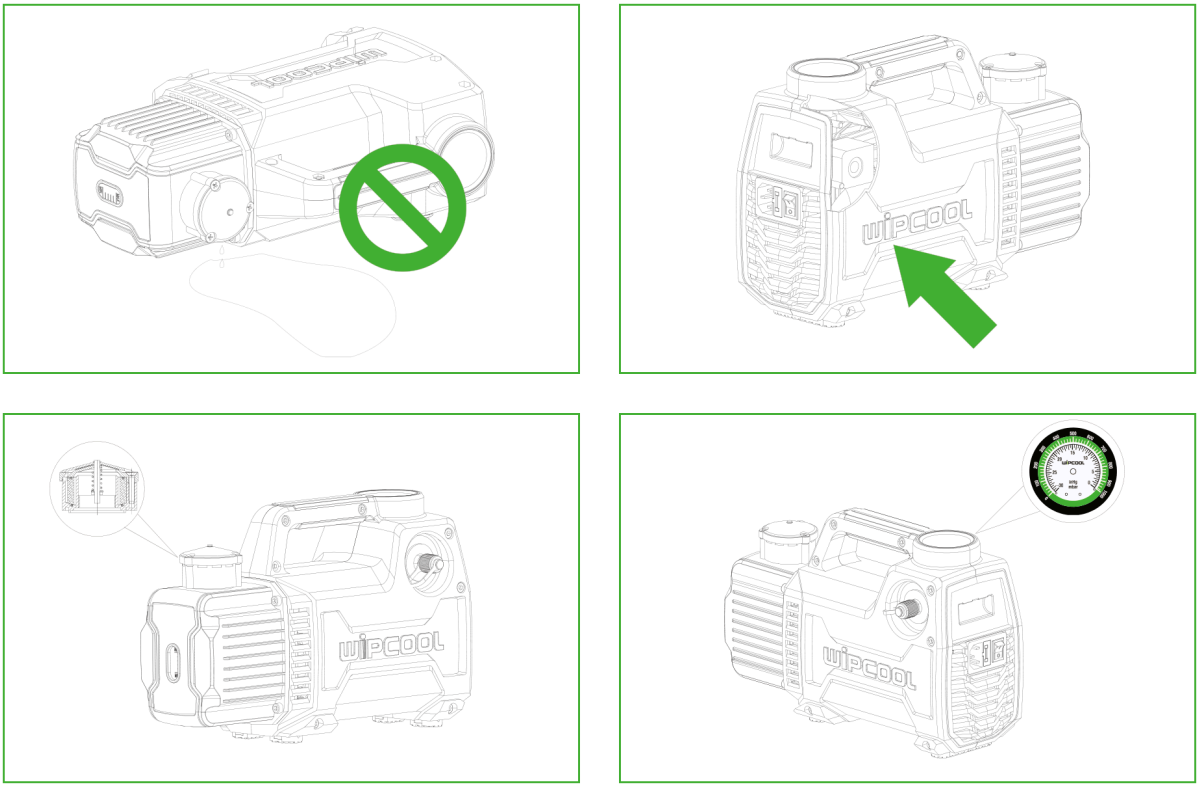


Figure 1. From the left: at the top, oil leak protection and solenoid valve; at the bottom, oil filler cap with exhaust and vacuum gauge.

The battery socket is at the rear of the pump. AEG/RIDGID 18 V batteries fit without an adapter.

Package contents

- Vacuum pump.
- Oil filler cap.

The battery is sold separately. Adapters for other battery systems are available separately.

A vacuum hose is required for operation.

Transport and storage

- Protect the pump from moisture and impacts.
- Observe the orientation markings on the packaging.

Application

The pumps are designed to evacuate refrigeration systems containing R12, R22, R134a, R410A and mildly flammable A2L refrigerants such as R32 and R1234yf. All three models have a non-sparking design.

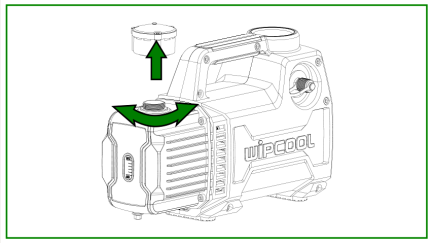
The pumps can also be used in other high-vacuum systems, such as printing equipment, medical instruments, vacuum packaging, gas analysis and thermoplastic forming.

How to use

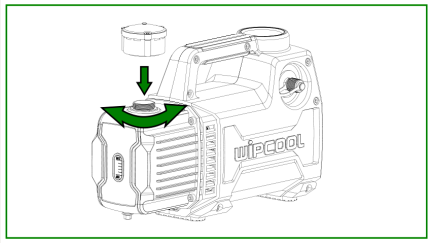
Pre-operation check

Check the condition of the pump and accessories and check the packaging for oil leaks. Report any transport damage or missing items to the seller. Before each use, check the oil level in the oil sight glass.

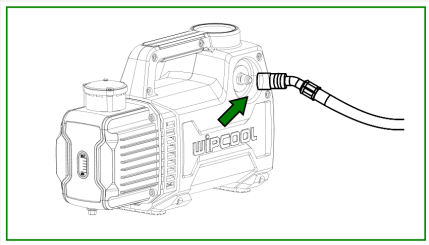
Preparation and start-up



01 **Step 1**
Before first use, unscrew and remove the transport plug from the oil filler opening. When topping up the oil subsequently, unscrew the oil filler cap. Figure 2. Removing the transport plug.

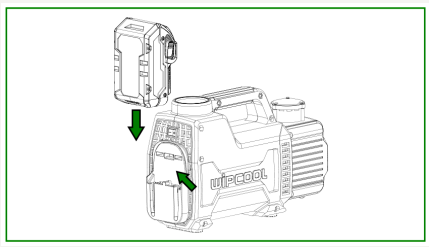


02 **Step 2**
If the oil level is too low, top up with vacuum pump oil until it reaches halfway up the sight glass. Then screw in the oil filler cap. Figure 3. Topping up the oil and fitting the oil filler cap.



03 **Step 3**

Connect the vacuum hose to the pump and the refrigeration system. Figure 4. Connection to the refrigeration system.



04 **Step 4**

Slide a compatible battery into the socket at the rear of the pump, then start the pump using the switch. Figure 5. Fitting the battery.

Maintenance

Oil check

Replace the oil when it is contaminated, brown, black or starts to foam.

Changing the oil

WARNING

Remove the battery before draining the oil.

CAUTION

The built-in protection against oil leakage when the pump is tilted may slow down filling.

01 Unscrew the drain screw underneath the oil reservoir, drain the oil and tighten the screw.

02 Unscrew the oil filler cap and slowly pour in the oil.

03 Slide the battery into the socket, start the pump and observe the oil level. When it stabilises halfway up the sight glass, tighten the oil filler cap.

04 Turn off the pump using the switch.

Troubleshooting

Problem	Possible cause	Solution
The pump does not reach the required vacuum	Insufficient oil	Top up the oil to halfway up the sight glass.
The pump does not reach the required vacuum	Emulsified or contaminated oil	Change the oil.
The pump does not reach the required vacuum	Blocked oil inlet or insufficient oil flow	Clean the oil inlet and filter screen.
The pump does not reach the required vacuum	Leak in the vacuum hose or reservoir	Check the vacuum hose and reservoir for leaks; repair the leak.
The pump does not reach the required vacuum	Pump unsuitable for the system	Check the system size and select a pump with an appropriate flow rate.
The pump does not reach the required vacuum	Parts worn after prolonged operation, increased clearance or an internal leak	You can replace the pump with a new one or have it repaired. Arrange repair through the service department - submit a request at wipcool.pl/serwis.
The pump does not reach the required vacuum	Contaminated sealing surface on the oil filler cap	Check and clean the sealing surface on the oil filler cap.
Oil leak	Worn shaft seal	Arrange repair through the service department - submit a request at wipcool.pl/serwis.
Oil leak	Loose or damaged oil reservoir connection	Arrange repair through the service department - submit a request at wipcool.pl/serwis.
Difficult start-up	Oil temperature too low	Before connecting to the system, switch on the pump with the inlet open and let it run until the oil warms up.
Difficult start-up	Motor or power supply problem	Check the battery and battery socket. Arrange repair through the service department - submit a request at wipcool.pl/serwis.
Difficult start-up	Contamination inside the pump	Arrange repair through the service department - submit a request at wipcool.pl/serwis.

Problem	Possible cause	Solution
The pump does not start or stops suddenly	Blown fuse	Check the fuse and replace it.
The pump does not start or stops suddenly	Motor or power supply problem	Check the battery and battery socket. Arrange repair through the service department - submit a request at wipcool.pl/serwis.

Waste electrical and electronic equipment

01



The crossed-out bin symbol means that the device must not be disposed of with other waste at the end of its life.

Under the 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 be hazardous to the environment and human health. Proper separate collection of waste electrical and electronic equipment prevents adverse effects on the environment.

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

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

Waste recovery - the use of waste that has lost its useful value, such as plastics, paper and cardboard, as secondary raw materials; the term is also commonly used to mean its destruction.

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 purchaser must collect waste equipment from households 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 may 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 offices.

Service and documents

Before submitting a request, prepare:

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

2F0BR · Operating manual

EDITION DETAILS

Model	**2F0BR**
Edition	**05.11.2026 · 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.