

Solar LED Lighting
Shockproof



1. Notice for Use

■ Thank you for buying WIPCOOL MASTER Series Manifold gauges, we are dedicated to providing you with high quality products.

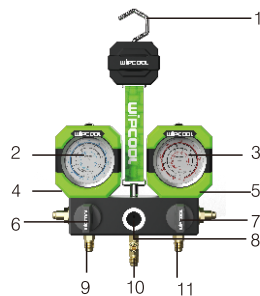
■ Please check if your ordered product is in good shipment condition with the correct accessories any damage during transportation please contact us or the local distributors in time if you find any problems.

■ This manual gives instructions on the correct operation, it's important that you follow this instructions carefully.

■ If there is any change of the product (including the specification), we won't inform any more.

2. Product Introduction

MG-2K

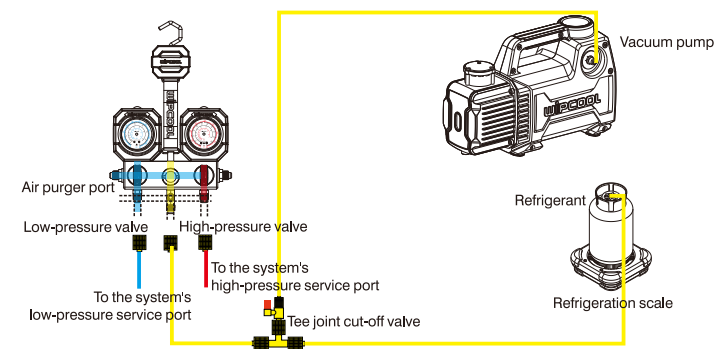


NO.	Part	NO.	Part
1	hook	7	High-pressure handle
2	Low-pressure compound gauge	8	Sight glass
3	High-pressure compound gauge	9	Low-pressure hose fitting
4	Solar panel	10	Connecting port
5	LED button	11	High-pressure hose fitting
6	Low-pressure handle		

TECHNIC DATA

Model	MG-2K
Refrigerants	R22, R410A, R32
Gauge diameter	Ø50
Working pressure	-30inHg-500PSI -30inHg-800PSI
Accessories	3 × 1.5m hoses, 1/4"-1/4" (Y) 1/4"-5/16" (R) 1/4"-5/16" (B) 2 × Adapter (5/16"-1/4")

3. Instructions for use



Before connection, it should check if the pressure gauges indicate zero.

If not, please use the calibration needle to make the gauge release the air

1. Pressure testing

1.1 Close both valves.

1.2 Connect blue hose to the system's low-pressure service port, connect red hose to the system's high-pressure service port

1.3 Running the system, read the testing pressure indicated on manifold gauges.

1.4 After testing, turn off the system. Then disconnect the hoses from the system and open all valves, make sure not vent refrigerant into the atmosphere.

1.5 In order to prevent venting the refrigerant into the atmosphere, you can use a recovery machine to recover any refrigerant remained in the hoses or manifold gauges.

2. Evacuation of a system

2.1 Connect blue hose to the system's low-pressure service port, connect red hose to the system's high-pressure service port, and connect yellow hose to vacuum pump.

2.2 Open both valves.

2.3 Turn on the vacuum pump.

2.4 Check pressure on low pressure gauge for 3 to 5 minutes, if desired vacuum reached, close valves, then turn off the vacuum pump.

2.5 Observe the pressure on the low-pressure gauge, if the pointer sticks to -30 inHG for 3 to 5 minutes, it means the system evacuation is completed. If not, repeat the steps from 2.2 to 2.4.

3. Charging of a system after evacuation

3.1 Keep valve closed, disconnect the yellow hose from the vacuum pump and connect this hose to a refrigerant cylinder

3.2 Open valve on the refrigerant cylinder.

3.3 Open the manifold valves. The system is now being charged with refrigerant.

Check the correct quantity of refrigerant with a charging scale, and observe the pressure on the gauge the refrigerant flow is too slow or insufficient, the system compressor can be turned on to speed up the process.

3.4 If the correct charging quantity has been reached, close valves.

4. Confirm Charging Effect

Start the system operation first.

After a certain time (about 5- 10 minutes), check system if both low pressure and high pressure are in normal condition.

If the system pressure is insufficient, it should slowly open the low pressure valve (must not open the high pressure valve at the moment). After a proper quantity of refrigerant (refrigerant cylinder in its normal upright position) is supplemented, close the low pressure valve and check the system again

If the system pressure is too high, it should close the refrigerant cylinder. Slowly open the high pressure valve. After a proper quantity of refrigerant is purged from the valve inside of the gauge set (Caution! Protect persons from the ejective refrigerant.), close the high pressure valve and check the system again.

Repeat above mentioned operation till the system is in normal condition.

4. Maintenance and Safety Instructions

5.1. Wear protective clothing, a helmet, protective glasses, gloves, safety shoes when handling refrigerants to avoid contact with refrigerants, which could possibly blind and injure the operator.

5.2. Do not forget to check if the charging hose is equipped with a hose gasket. Be very careful not to get frozen by refrigerants.

5.3. Never overexert your force to open or close the valves, otherwise the sealing element might be damaged.

5.4. Never misuse the high pressure and low pressure. Never open both high pressure valve and low pressure valve together during the refill operation.

5.5. Never use the refrigerants not in compliance with the indication on the gauge set.

5.6. Never let the sight glass aim at any person to avoid any accident.

5.7. The pressure gauges are wear parts and they need periodical calibration. For a good accuracy, normally it should delivery the gauges to the authority for calibration every 3-6 months.

5.8. Always use them carefully and protect them from vibration or careless falling. The valves should be released and keep the instrument well in storage after using.

⚠ Warranty

Terms of Warranty

1. This product is to be repaired free of charge if a failure occurs despite proper use during the period of warranty.

2. This warranty is valid for 1 year starting from the date of purchase.

3. In any of the following cases, this product is to be excluded from free-of-charge repair.

1) Failures incurred by improper use.

2) Failures due to handling and storage beyond its specific ations.

3) Failures due to modifications or repairs not done by the manufacturer or its entrusted technicians.

4) Failures due to consumable components.

5) Other failures not deemed to be the manufacturer manufacturer's responsibilities.