

# WÖHLER

Manual

## Wöhler MR 660

Valve block



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*The Measure of Technology*

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# 1 General Information

## 1.1 Information about the manual

This manual enables you to operate the product safely. Please keep this manual for future reference.

The product must only be used by qualified personnel for its intended purpose.

We accept no liability for damage resulting from failure to follow the instructions in this manual.

## 1.2 Notes in the manual



### **DANGER**

Indicates an imminent hazardous situation. If this is not avoided, it will result in death or serious injury.

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### **WARNING**

Indicates a potentially imminent hazardous situation. If this is not avoided, it will also result in death or serious injury.

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### **CAUTION**

Indicates a potential hazard which, if not avoided, may result in minor or moderate injury.

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### **NOTICE**

Indicates a situation that may result in damage to the product or other property if not avoided.

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## INFORMATION

Highlights tips and other useful information.

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### 1.3 Intended use

The Wöhler MR 660 is a valve block designed for maintenance work on refrigeration systems and heat pumps and, when used in conjunction with the Wöhler SC 660 Smart Connect, serves as a technician's aid.

### 1.4 Scope of delivery

- Wöhler MR 660 Refrigeration Valve Block
- Refrigerant hose 1.5 m, black
- Refrigerant hose 1.5 m, green
- Refrigerant hose 1.5 m, yellow
- Connection cable for equipotential bonding

### 1.5 Manufacturer's address

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## 2 General warnings



### **DANGER**

#### **Danger from pressurised, hot, cold or toxic refrigerants!**

All work on such systems must only be carried out by qualified personnel. Wear safety goggles and protective gloves.

Secure the unit against falling before pressurising it, e.g. using the suspension system.

Do not use the appliance if the housing or hoses are damaged. This applies in particular after the unit has been dropped or subjected to excessive mechanical stress.

Replace the hoses after a fall or mechanical stress.

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### **WARNING**

#### **Warning of environmental hazard due to refrigerant leaks**

The leakage of refrigerant gases – depending on the refrigerant used – can cause significant damage to the environment. Observe the applicable environmental regulations regarding the handling, disposal and release of refrigerants.

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**⚠ DANGER****Risk of explosion when used with flammable refrigerants (A2L, A2, A3)**

During maintenance and repair work on refrigeration systems using flammable refrigerants in accordance with ISO 817 (categories A2L, A2, A3), a hazardous, explosive atmosphere may form in the immediate vicinity of the system. Ignition of released refrigerant may result in an explosion, serious injury or death.

The product must not be operated in designated, recognisable or presumed potentially explosive atmospheres in accordance with IEC 60079-10-1.

Only use the product if all applicable international and national laws, standards, guidelines and safety regulations for refrigeration systems, as well as the regulations of the respective refrigeration equipment manufacturers, are complied with.

To prevent the formation of an explosive atmosphere, observe the relevant technical regulations (e.g. TRBS 1112, TRBS 2152, VDMA 24020-3).

If a refrigerant leak is suspected or detected, do not use the measuring instrument and secure the system immediately or take it out of service.

- Wear suitable personal protective equipment: at least safety goggles and protective gloves.
- Open and close the valves on the unit in the prescribed order to prevent any refrigerant leakage during commissioning, maintenance and repair.
- Refrigerants of classes 2L and higher according to ISO 817 (A2L/A2/A3) are flammable. When handling these refrigerants, always ensure adequate ventilation and avoid ignition sources.
- The instructions and warnings in this manual must be strictly followed.



### **WARNING**

#### **Risk of injury and damage to property due to pressure and escaping refrigerant**

Incorrect connection or damaged hoses can lead to a sudden escape of refrigerant and excessive pressure. There is a risk of injury from contact with refrigerant and flying parts, as well as damage to the measuring instrument and the system.

- Before pressurising the measuring instrument, always secure it to the designated mounting bracket to prevent it from falling (risk of breakage).
  - Before each measurement, check the refrigerant hoses for damage (cracks, kinks, leaks) and ensure they are correctly connected.
  - Do not use tools to connect the hoses; tighten the hoses by hand only.
  - Strictly adhere to the permissible measurement and pressure range. This applies in particular to systems using R744 (CO<sub>2</sub>) refrigerant, as these are often operated at higher pressures.
-

## NOTICE

### **Use only by qualified personnel**

Improper use may pose a risk to people, the environment and the system.

- The measuring instrument must only be used by qualified personnel who have proven knowledge and experience in handling refrigeration systems and the refrigerants used.
  - The operator must meet all legal and regulatory requirements regarding qualifications, training and authorisation applicable in the country of use (e.g. recognised certificates/ proof of competence for work on refrigeration systems).
  - In countries with specific qualification requirements (e.g. Category A1 refrigeration licence in Germany), the measuring instrument must only be used by appropriately certified persons.
  - Before initial commissioning, the entire manual must be read in full and observed.
-

### 3 Technical specifications

|                               | Description                | Specification                                    |
|-------------------------------|----------------------------|--------------------------------------------------|
|                               | Ports                      | 3 x ¼" SAE;<br>1 x ¼" SAE with<br>Schrader valve |
| Housing                       | Dimensions                 | 110 mm x 115 mm x<br>60 mm                       |
|                               | Weight                     | 420 g                                            |
| Environmental con-<br>ditions | Operating temperat-<br>ure | -10 to 50 °C                                     |
|                               | Storage temperature        | -20 to 60 °C                                     |

# 4 Design and Function

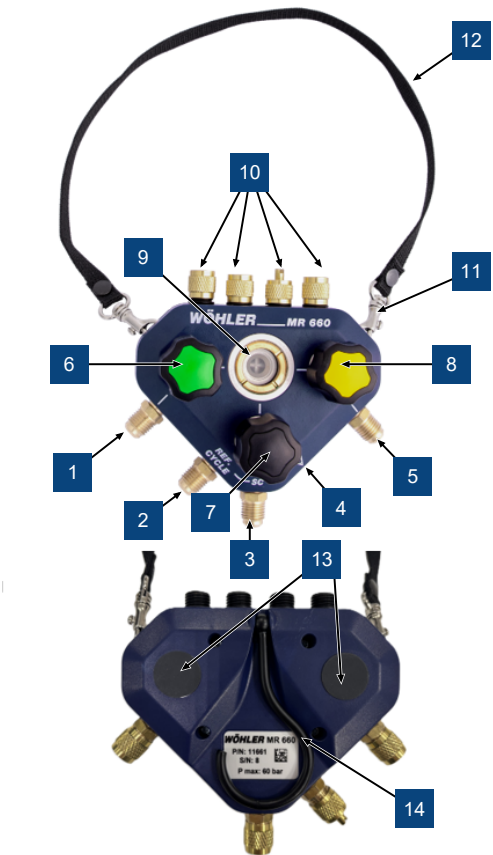


Illustration 1: Front and back of the Wöhler MR 660

|   |                             |   |                                                                         |
|---|-----------------------------|---|-------------------------------------------------------------------------|
| 1 | 1/4" SAE port (green valve) | 2 | 1/4" SAE port for connection to the refrigeration circuit (black valve) |
|---|-----------------------------|---|-------------------------------------------------------------------------|

|    |                                                                       |    |                                                            |
|----|-----------------------------------------------------------------------|----|------------------------------------------------------------|
| 3  | 1/4" SAE port with Schrader valve for connection to the Wöhler SC 660 | 4  | Terminal for equipotential bonding cables                  |
| 5  | 1/4" SAE port (yellow valve)                                          | 6  | Green valve knob                                           |
| 7  | Black valve knob                                                      | 8  | Yellow valve knob                                          |
| 9  | Sight glass                                                           | 10 | Mounts for the screw protection caps on the 1/4" SAE ports |
| 11 | Attachment points for wrist strap                                     | 12 | Wrist strap                                                |
| 13 | Mounting magnets                                                      | 14 | Hook for hanging: can be raised by sliding it side-ways    |

## INFORMATION

The 1/4" SAE port with Schrader valve for connection to the Wöhler SC 660 (part 3 in Fig. 1) allows pressure measurement with the black valve open or closed.

### Information on the valves

- Opening the valve: Turn the knob anti-clockwise
- Closing the valve: Turn the knob clockwise

## NOTICE

Always operate the valve settings by hand only, never use pliers. Closing or opening the valves with excessive force may damage them.



## 5 Preparing for the measurement

### 5.1 Connection with the Wöhler SC 660



*Illustration 2:*  
Wöhler MR 660  
with Wöhler SC  
660

1. Connect the Wöhler SC 660 to the “SC” valve on the Wöhler MR 660.
2. The measurement procedure with the Wöhler SC 660 Smart Connect is described in the Wöhler SC 660 manual and in the Wöhler Smart Connect app manual.
3. To prevent contamination in the connection or thread, the screw caps should remain on any connections that are not being used during the measurement. The screw caps can be stored on the designated holders (see Chapter 4) whilst in use.

During measurement, there are three mounting options for the Wöhler MR 660:

- The wrist strap can be detached from the Wöhler MR 660 using the bolt carabiner and can thus be hung up.
- There is a hook on the back of the Wöhler MR 660 for hanging it up. The hook can be moved to the side. This raises it slightly, which makes operation with gloves much easier.
- There are also two magnets on the back of the Wöhler MR 660 for attaching it to magnetic surfaces.

### 5.2 Hose connections

- Close the valves on the measuring device using the rotary knobs.



*Illustration 3:* Wöhler refrigerant filling hoses



 **WARNING**

**Warning of risk of injury from refrigerant leakage**

Before each measurement, check that the refrigerant filling hoses are intact. Do not use any tools to connect the hoses. Tighten the hoses by hand only.

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 **WARNING**

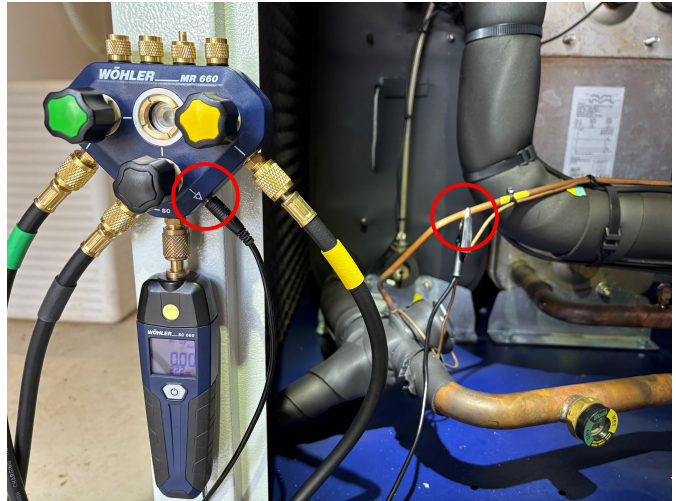
**Warning of refrigerant leakage due to incorrect handling of the valves**

Throughout the entire process, ensure that the valves on the unit are opened and closed in the correct order. This will prevent refrigerant from leaking.

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## 5.3 Connection for equipotential bonding

To prevent sparking caused by static electricity, insert the connector of the equipotential bonding cable into the designated socket on the Wöhler MR 660 and connect the terminal to a conductive part of the refrigerant circuit.



*Illustration 4:* Wöhler MR 660 with the equipotential bonding cable connected

## 6 Maintenance

### Housing and valves

- Check the housing, connections, sight glass and valves for visible damage and, if damage is found, contact the service department if necessary.

### Refrigerant filling hoses

- Check the refrigerant filling hoses and their seals for mechanical damage.

### Cleaning

- Clean the housing with a damp cloth.
- Ensure that the threaded connections are free of grease or other deposits. Clean the connections with a damp cloth if necessary.

## 7 Warranty and Service

### 7.1 Warranty

Every Wöhler product is tested for all functions and only leaves our factory after a detailed quality control.

If used properly, the warranty period for the product is twelve months from the date of sale. The warranty does not apply if repairs or modifications have been carried out on the device by a third party not authorised to do so.

### 7.2 Service

We place great emphasis on SERVICE. That is why we are, of course, still here for you even after the warranty period has expired.

- You send the product to us, we repair it within a few days and send it back to you via our parcel service.
- You can get immediate help from our technicians over the phone.

## Notes

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