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1 General Information

1.1 Operation Manual Information

This operation manual allows you to work safely with the Wöhler Viper Vent. Please keep this manual for your information.

The Wöhler Viper Vent Set is to be used by professionally trained personnel exclusively for the purpose for which it was designed.

Liability is void for any damages caused by not following this manual.

1.2 Notes



WARNING!

Not following this warning can cause injury or death.



ATTENTION!

Not following this note can cause permanent damage to the device.



NOTE!

Useful information

1.3 Intended Use

The Rotary Viper Vent is suitable for cleaning ventilation lines, regulated dwelling VAC systems, air ducts up to Ø 250 mm, exhaust gas lines from 80-150 mm, connecting flue pipes and flue outlet pipes of tiled stoves. A mains powered or rechargeable-battery powered drill is used to rotate the threaded cleaning attachments (brush heads and impact brushes). The scope of supply does not include a mains powered or rechargeable-battery powered drill.

1.4 Scope of supply

Meter	Basic equipment
Wöhler Rotary Viper Ventilation M 10	Rotary Viper Vent
	Brush Head Perlon (Ø 18 cm)
	Depending on set configuration: Optional cleaning heads

1.5 Transport and storage**ATTENTION!**

The device may be damaged if improperly transported or stored!

- Observe the smallest bending radius of 12 cm when storing and transporting.
- Ensure the rotary viper is not exposed to direct sunlight over a very long period of time when being stored, as this can damage the protective sheath.

1.6 Manufacturer**Wöhler Technik GmbH**

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2 Specifications

Rotary viper	
Length	1.5 m or 3 m or 5 m or 10 m or 15 m
Max. torque	Clockwise rotation: 3 Nm
	Anticlockwise rotation: 1.5 Nm
Failure moment	Clockwise rotation: 9 Nm
	Anticlockwise rotation: 4.5 Nm
Max. speed	Clockwise rotation: 1300 rpm
	Anticlockwise rotation: 650 rpm
Smallest bending radius	120 mm
Coat	Material: PA
	12 mm Ø
Connection for cleaning attachments	M10 thread
Operating temperature	0 - +80°C

3 Overview

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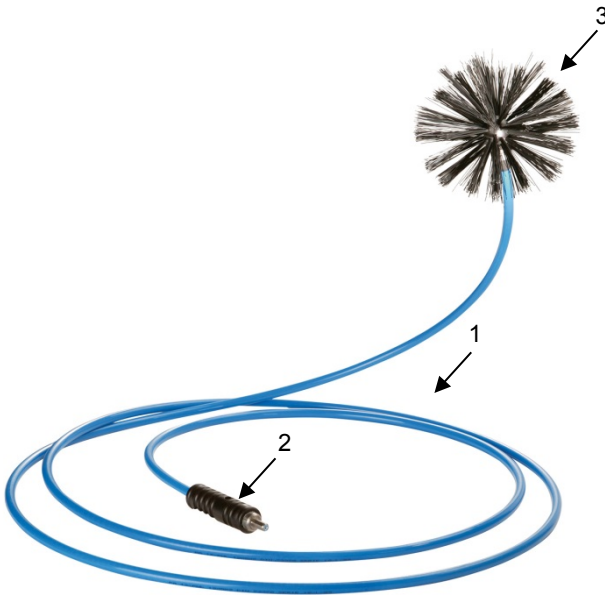


Fig. 3: Components of the Wöhler Rotary Viper Vent

Legend

- 4 Rotary viper
- 5 Power drill connector
- 6 Cleaning attachment, here Perlon brush head

4 Preparing for use

4.1 Fitting the cleaning attachment



ATTENTION!

Use only brush head or impact brush attachments made of Perlon.

Preparing for use

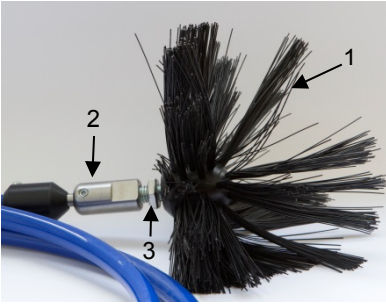


Fig. 4: Cleaning attachment (1) coupling with female thread M10 (2) and locknut (3)

- Screw the locknut (3) on to the cleaning attachment.
- Screw the cleaning attachment (brush head or impact brush) (1) into the coupling (2).
- Use a wrench to hold the locknut in position and tighten the cleaning attachment using a second wrench.



NOTE!

It is particularly important to tighten the cleaning attachment using two wrenches, because this will ensure the cleaning attachment will not work loose in use.

4.2 Connecting the power drill



WARNING!

If the brush suddenly becomes blocked, there is a risk the power drill will be ripped violently out of your hands. Consequently, we recommend you use a power drill with a torque clutch.

- Insert the power drill connector of the rotary viper into the drill chuck. Observe the instructions in the operating manual belonging to the power drill and obey the safety instructions in particular.

5 Using the rotary viper

- Before using, unroll the rotary viper fully.
- Power on the power drill to make the cleaning attachments rotate.



ATTENTION!

The rotary viper must only rotate clockwise. If it rotates anticlockwise, there is a risk the attached brush will work loose.

Clockwise direction of rotation: Max. 1 300 rpm with cleaning attachment

Anticlockwise direction of rotation: Max. 650 rpm with brush head



ATTENTION!

Friction will cause the temperature of the sheath to rise if the rotary viper is used for longer periods of time. Ensure the specified operating temperature of 80°C is not exceeded, otherwise the sheath of the rotary viper will be damaged.



ATTENTION!

Do not tread on the rotary viper when it is in use. Do not allow it to strike against the floor. That could damage the sheath of the rotary viper and degrade its anti-friction properties.



ATTENTION!

Avoid overloading: If the cleaning attachment can no longer rotate in a pipe, stop the rotary viper rotating and push it through the pipe to be cleaned without any rotation. Rotate the cleaning attachment of the rotary viper first when you are pulling it back.

7 Maintenance

The Wöhler rotary viper requires very little maintenance. The bearings in the end pieces are self-lubricating. The core is sufficiently greased with high-quality graphite lubricant.

After it has been in use for a long time it is possible that the grease in the core will need to be replenished. This will become noticeable by the protective PA sheath becoming unusually warm. It should be returned to the factory for the grease to be replenished.

8 Warranty and Service

8.1 Warranty

Each Wöhler Rotary Viper Vent will be tested in all functions and will leave our factory only after extensive quality control testing.

If used properly, the warranty period for the Wöhler Rotary Viper Vent will be twelve month from the date of sale.

Not covered by the warranty are cleaning attachments (brush head made of Perlon or threaded brush), because they are consumables.

This warranty does not cover the freight and packing costs when the device is sent to the factory for repair.

Service by non authorized personnel or making modifications to the analyzer voids any warranty.

8.2 Service

Wöhler has built our reputation on excellence in customer service. Therefore, of course, we are readily available to assist you after the warranty period ends.

- Send us the device and we will repair it and return it to you with our package service.
- Immediate help is provided by our technical staff over the telephone.

9 Accessories

Brush Head, Perlon 12,5 cm Ø, M 10	Order no. 1458
Brush Head, Perlon 18 cm Ø, M 10	Order no. 1466
Brush Head, Perlon 25 cm Ø, M 10	Order no. 7102
Threaded Brush, Perlon, 30 cm Ø, M 10	Order no. 18730
Wöhler Soot Door Sealing	Order no. 3380