



VACUUM SOLUTIONS

Part of the **BUSCH** GROUP

MINK

Claw Vacuum Pumps

MW 0332 B

Instruction Manual



Table of Contents

1	Safety	3
2	Product Description	4
2.1	Operating Principle	5
2.2	Intended Use	5
2.3	Design Options.....	6
2.3.1	Aqua Version	6
2.4	Start Controls.....	6
2.5	Optional Accessories.....	6
2.5.1	Inlet Filter	6
2.5.2	Condensate Drain.....	6
2.5.3	OTTO IoT Box	6
3	Transport and Handling	7
4	Storage.....	8
5	Installation.....	9
5.1	Installation Conditions	9
5.2	Connecting Lines / Pipes	10
5.2.1	Inlet Connection	10
5.2.2	Exhaust Connection	11
5.3	Filling Oil.....	11
6	Electrical Connection	12
6.1	Machine delivered without Control Box or Variable Speed Drive (VSD)	13
6.2	Wiring Diagram Three-Phase Motor.....	14
7	Commissioning	16
7.1	Conveying Condensable Vapors.....	17
8	Maintenance	18
8.1	Maintenance Schedule	19
8.2	Oil Level Inspection.....	20
8.3	Cleaning from Dust and Dirt.....	20
8.4	Oil Change.....	21
9	Overhaul	22
10	Decommissioning	23
10.1	Dismantling and Disposal	23
11	Spare Parts	24
12	Troubleshooting	25
13	Technical Data	27
14	Oil	28
15	EU Declaration of Conformity	29
16	UK Declaration of Conformity.....	30

1 Safety

Prior to handling the machine, this instruction manual should be read and understood. If anything needs to be clarified, please contact your manufacturer representative.

Read this instruction manual carefully before use and keep for future reference.

This instruction manual remains valid as long as the customer does not change anything on the product.

The machine is intended for industrial use. It must be handled only by technically trained personnel.

Always wear appropriate personal protective equipment in accordance with the local regulations.

The machine has been designed and manufactured in accordance with the state-of-the-art methods. Nevertheless, residual risks may remain, as described in the following chapters and in accordance with the chapter *Intended Use* [→ 5].

This instruction manual highlights potential hazards where appropriate. Safety notes and warning messages are tagged with one of the keywords DANGER, WARNING, CAUTION, NOTICE and NOTE as follows:



DANGER

... indicates an imminent dangerous situation that will result in death or serious injuries if not prevented.



WARNING

... indicates a potentially dangerous situation that could result in death or serious injuries.



CAUTION

... indicates a potentially dangerous situation that could result in minor injuries.



NOTICE

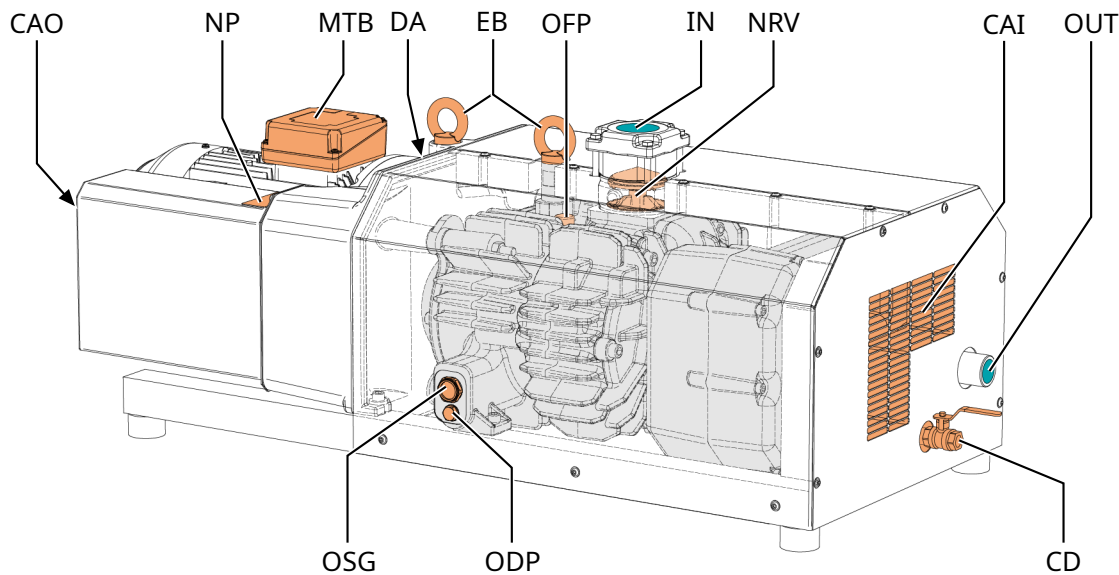
... indicates a potentially dangerous situation that could result in damage to property.



NOTE

... indicates helpful tips and recommendations, as well as information for efficient and trouble-free operation.

2 Product Description



Description			
IN	Inlet connection	OUT	Exhaust connection
OFP	Oil fill plug/venting valve (below the cover)	ODP	Oil drain plug
CAI	Cooling air inlet	CAO	Cooling air outlet
OSG	Oil sight glass	NRV	Non-return valve (integrated)
EB	Eye bolt	MTB	Motor terminal box
CD	Condensate drain (aqua version)	DA	Directional arrow
NP	Nameplate		



NOTE

Technical term.

In this instruction manual, we consider that the term ‘machine’ refers to the ‘vacuum pump’.

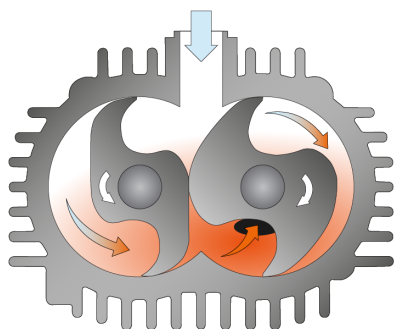


NOTE

Illustrations.

In this instruction manual, the illustrations may differ from the appearance of the machine.

2.1 Operating Principle



The machine works on the claw principle.

The MINK is fully air-cooled thanks to an integrated fan in the drive unit.

In order to avoid solids from entering, the machine is equipped with an inlet screen (IS).

Inlet screen (IS):

- See *Cleaning from Dust and Dirt* [→ 20]
- See *Troubleshooting* [→ 25]

In order to avoid reverse rotation after switching off, the machine is equipped with a non-return valve (NRV).

2.2 Intended Use



WARNING

In case of foreseeable misuse outside the intended use of the machine.

Risk of injuries!

Risk of damage to the machine!

Risk of damage to the environment!

- Make sure to follow all instructions described in this manual.

The machine is intended for the suction of air and other dry, non-aggressive, non-toxic, non-ignitable and non-explosive gases.

Conveying of other media leads to an increased thermal and/or mechanical load on the machine and is permissible only after a consultation with the manufacturer.

The machine is intended for placement in a non-potentially explosive environment.

The machine is designed for indoor installations. For outdoor installations, consult your Busch representative for special precautions.

The machine is capable of maintaining ultimate pressure, see *Technical Data* [→ 27].

The machine is suitable for continuous operation up to a certain inlet pressure indicated below:

Machine type	Inlet pressure limitation for continuous operation
MINK MW 0332 B	Within a range of 0.8 - 300 hPa (mbar) abs.

Note: The non-return valve (NRV) shouldn't be used as a non-return or shut off valve for the System. The non-return valve is only to protect the machine.

If the machine needs to be maintained after shutdown:

- Provide an additional manual or automatic operated non-return valve in the suction line.

Permitted environmental conditions, see *Technical Data* [→ 27].

2.3 Design Options

The design options described in the following chapters might be combined.

Please refer to the nameplate (NP) to identify the corresponding design option of your machine.

Design option	Codification	Example
Standard (no design option)	0	MW 0332 B 00
Aqua version	A	MW 0332 B 0A

2.3.1 Aqua Version

The Aqua version is a design option for conveying condensable vapors (water).

This machine is specifically equipped with:

- corrosion protection coating.
- optional condensate drain (CD) in the internal silencer.

2.4 Start Controls

The machine comes without start controls. The control of the machine is to be provided in the course of installation.

2.5 Optional Accessories

2.5.1 Inlet Filter

The inlet filter protects the machine against dust and other solids in the process gas. The inlet filter is available with a paper or polyester cartridge.

2.5.2 Condensate Drain

The condensate drain (CD) uses to drain the accumulated fluids.

2.5.3 OTTO IoT Box



The machine can be equipped with the OTTO IoT Box.

It allows the vacuum pump to be connected to the Busch Cloud and collect live measured data during its operation.

For the activation and setup of this optional function, contact your Busch representative.

For any additional information, refer to the specific document "OTTO IoT Box User's Manual, art. no. 0870236702" or contact your Busch representative.

3 Transport and Handling



WARNING

Suspended load.

Risk of severe injury!

- Do not walk, stand, or work under suspended loads.

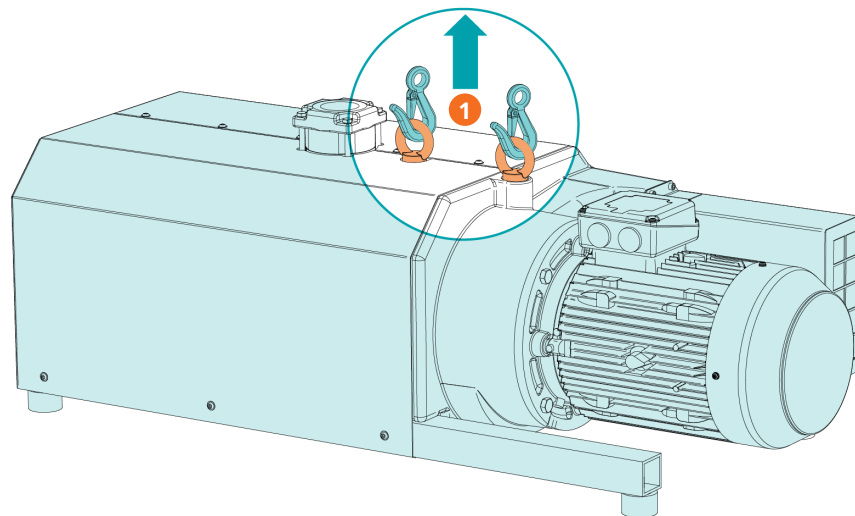


WARNING

Lifting the machine using the motor eye bolt.

Risk of severe injury!

- Do not lift the machine using the eye bolt fitted to the motor.
- Only lift the machine as shown.
- To find out the weight of the machine, refer to the chapter *Technical Data* [→ 27] or the name plate (NP).
- Make sure that the eye bolt(s) (EB) is/are in faultless condition, fully screwed in and tightened by hand.



Description

1	Use both eye bolts (EB)		
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- Check that the machine has not been damaged during transport.

If the machine is mounted and secured on a transport support (pallet):

- Remove the machine from the transport support before installation.

4 Storage

- Seal hermetically all apertures with the caps provided with the machine, or with adhesive tape if the caps are no longer available.
- Store the machine indoors, in a dry place, away from dust and vibrations and if possible, in original packaging, preferably at temperatures between 0 ... 40 °C.

If the machine is to be stored for more than 3 months:

- Seal hermetically all apertures with the caps provided with the machine, or with adhesive tape if the caps are no longer available.
- Wrap the machine in a corrosion inhibitor film.
- Store the machine indoors, in a dry place, away from dust and vibrations and if possible, in original packaging, preferably at temperatures between 0 ... 40 °C.

5 Installation

5.1 Installation Conditions



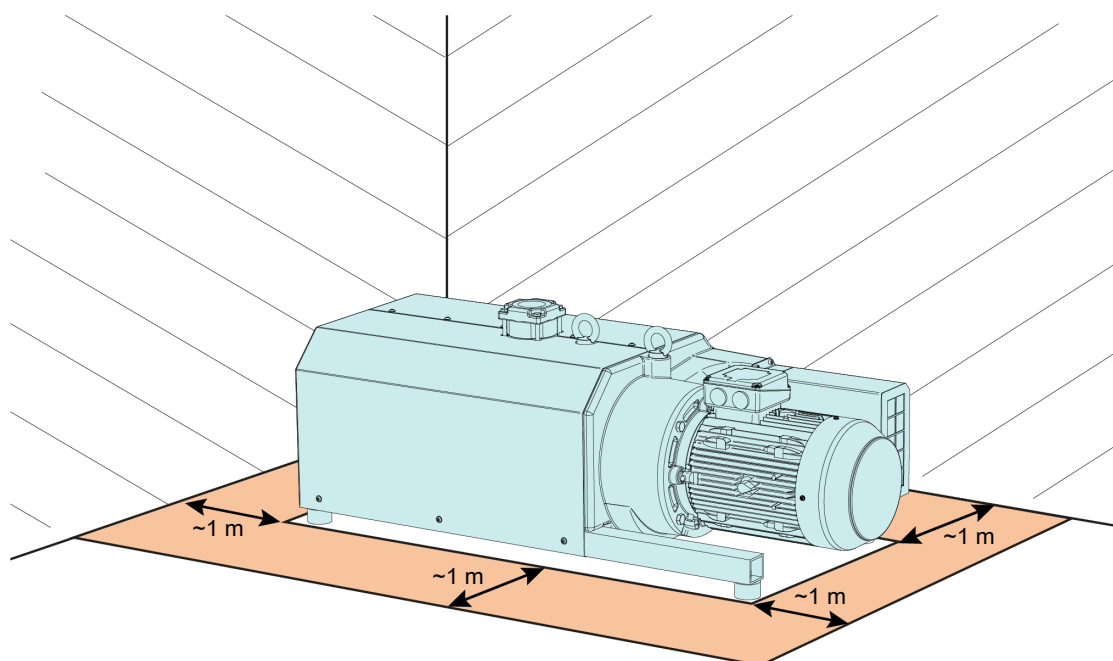
NOTICE

Use of the machine outside of the permitted installation conditions.

Risk of premature failure!

Loss of efficiency!

- Make sure that the installation conditions are fully respected.



- Make sure that the environment of the machine is not potentially explosive.
- Make sure that the ambient conditions comply with the *Technical Data* [→ 27].
- Make sure that the environmental conditions comply with the protection class of the motor and the electrical elements.
- Make sure that the installation space or location is protected from weather and lightning.
- Make sure that the installation space or location is vented such that sufficient cooling of the machine is provided.
- Make sure that cooling air inlets (CAI) and outlets (CAO) are not covered or obstructed and that the cooling air flow is not affected adversely in any other way.
- Make sure that the oil sight glass (OSG) remains easily visible.
- Make sure that enough space remains for maintenance work.
- Make sure that the machine is placed or mounted horizontally, a maximum deviation of 1° in any direction is acceptable.
- Check the oil level, see *Oil Level Inspection* [→ 20].
- Make sure that all provided covers, guards, hoods, etc. are mounted.

If the machine is installed at an altitude greater than 1000 meters above sea level:

- Contact your manufacturer representative, the motor must be derated or the ambient temperature limited.

5.2 Connecting Lines / Pipes



WARNING

Rotating Parts.

Risk of severe injury!

- Do not operate the machine without inlet and exhaust connections installed.
- Remove all protective covers before installation.
- Make sure that the connection lines cause no stress on the connections of the machine. Therefore, we recommend installing flexible lines at the inlet and exhaust connections.
- Make sure that the diameter of the connecting lines over the entire length is at least as large as the connections of the machine.

In case of long connecting lines:

- Use larger diameters to avoid a loss of efficiency.
- Contact your manufacturer representative for more information.



NOTICE

Flow of potential condensate from the piping to the machine.

Risk of damage to the machine!

- Make sure that the machine inlet and exhaust connection pipes are installed in a way to prevent potential condensate to flow from the piping to the machine.
- Busch recommends the use of the optional horizontal inlet filter and the exhaust drip leg to collect the condensate and prevent it from flowing into the machine.

5.2.1 Inlet Connection



NOTICE

Ingress of foreign objects or liquids.

Risk of damage to the machine!

If the inlet gas contains dust or other foreign solid particles:

- Install a suitable filter (5 micron or less) at the inlet of the machine.

Connection size(s):

- G2" – without inlet filter (IF)
- G2 ½" - with inlet filter (IF)

Depending on the specific configuration ordered, other connection dimensions may apply.

- Make sure that the connection lines cause no stress on the connections of the machine. Therefore, we recommend installing flexible lines at the inlet and exhaust connections.

5.2.2 Exhaust Connection

! NOTICE

Exhaust gas flow obstructed.

Risk of damage to the machine !

- Make sure that the exhaust gas will flow without obstruction. Do not shut off or throttle the exhaust line or use it as a pressurized air source.

Connection size(s):

- R1 ¼"

Depending on the specific configuration ordered, other connection dimensions may apply.

- Make sure that the connection lines cause no stress on the connections of the machine. Therefore, we recommend installing flexible lines at the inlet and exhaust connections.

5.3 Filling Oil

! NOTICE

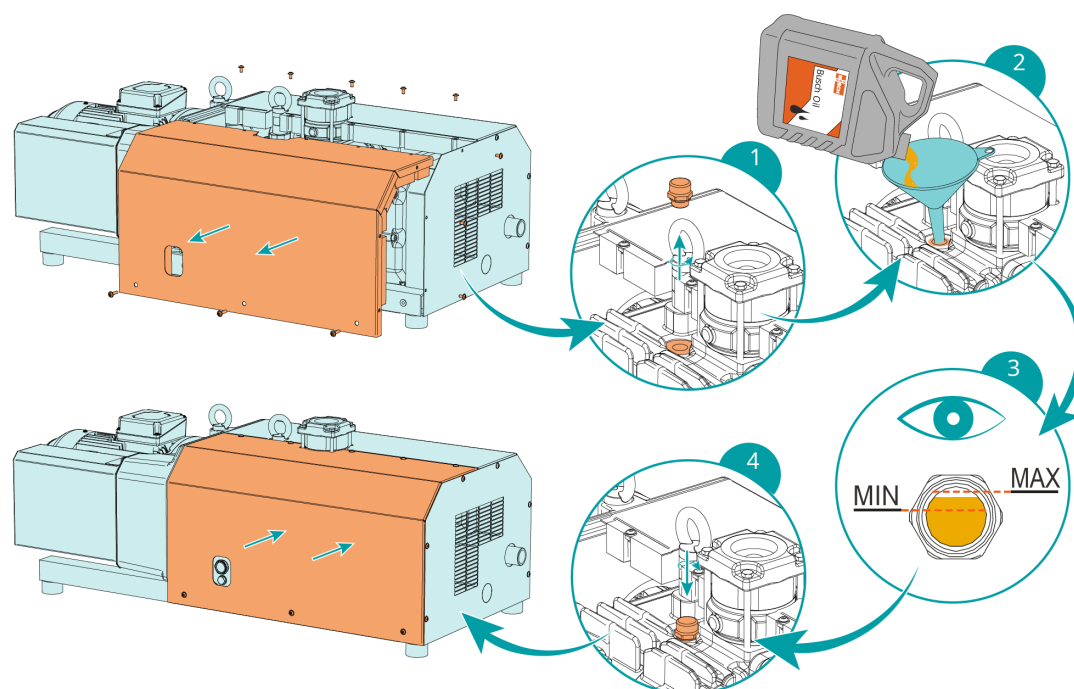
Use of inappropriate oil.

Risk of premature failure!

Loss of efficiency!

- Use only a type of oil previously approved and recommended by the manufacturer.

For oil type and oil capacity see *Technical Data* [→ 27] and Oil chapters.



The oil level should stay constant over the lifetime of the oil. If the level does fall, this indicates a leak and the machine requires repair.

6 Electrical Connection



DANGER

Live wires.

Risk of electrical shock!

- Electrical installation work must only be executed by qualified personnel.

INSTALLATION(S) CURRENT PROTECTION:



DANGER

Missing current protection.

Risk of electrical shock!

- Provide current protection in accordance with EN 60204-1 on your installation(s).
- The electrical installation must comply with the applicable national and international standards.



NOTICE

Electromagnetic compatibility.

- Make sure that the motor of the machine will not be affected by electric or electromagnetic disturbance from the mains. If necessary, contact your Busch representative for more information.
- Make sure that the EMC of the machine is compliant with the requirements of your supply network system, if necessary, provide further interference suppression (EMC of the machine, see *EU Declaration of Conformity* [→ 29] or *UK Declaration of Conformity* [→ 30]).

6.1 Machine delivered without Control Box or Variable Speed Drive (VSD)



DANGER

Live wires.

Risk of electrical shock!

- Electrical installation work must only be executed by qualified personnel.
-
- Make sure that the power supply for the motor is compatible with the data on the name plate of the motor.
 - If the machine is equipped with a power connector, install a residual current protective device to protect persons in case of a defective insulation.
 - Busch recommends installing a type B residual protective device suitable for the electrical installation.
 - Provide a lockable disconnect switch or an emergency stop switch on the power line so that the machine is completely secured in case of an emergency situation.
 - Provide a lockable disconnect switch on the power line so that the machine is completely secured during maintenance tasks.
 - Provide an overload protection according to EN 60204-1 for the motor.
 - Busch recommends installing a D-curve circuit breaker.
 - Connect the protective earth conductor.
 - Electrically connect the motor.



NOTICE

Incorrect connection.

Risk of damage to the motor!

- The wiring diagrams below are examples only. See inside the terminal box for motor connection instructions and diagrams.
-

6.2 Wiring Diagram Three-Phase Motor



NOTICE

Incorrect direction of rotation.

Risk of damage to the machine!

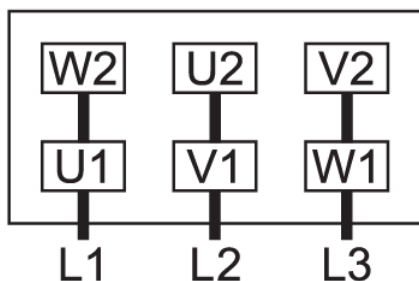
- Operation in the wrong direction of rotation can destroy the machine in a short time! Prior to start-up, ensure that the machine is operated in the right direction.

- Determine the intended direction of rotation with the arrow (stuck on or cast).
- Jog the motor briefly.

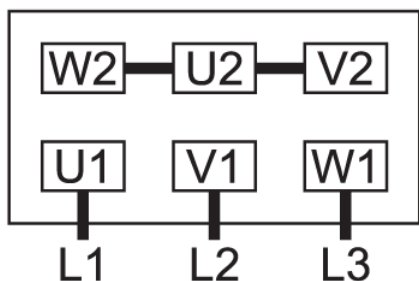
If the rotation of the motor must be changed:

- Switch any two of the motor phase wires.

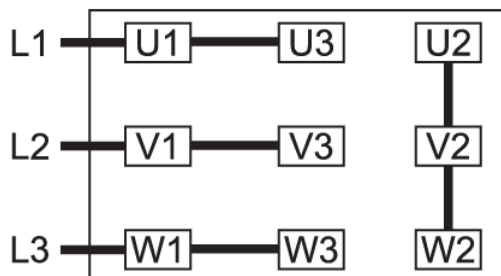
Delta connection (low voltage):



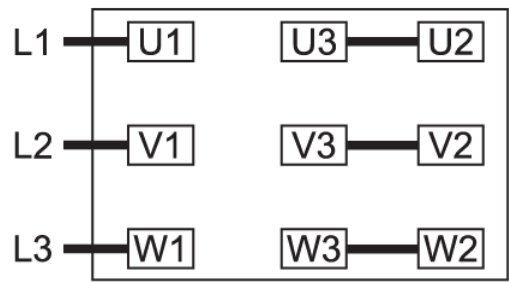
Star connection (high voltage):



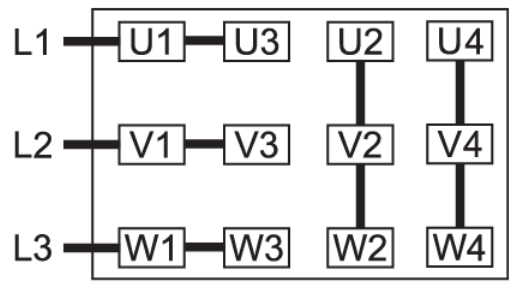
Double star connection, multi-voltage motor with 9 pins (low voltage):



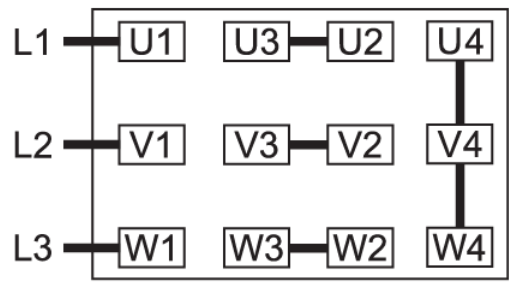
Star connection, multi-voltage motor with 9 pins (high voltage):



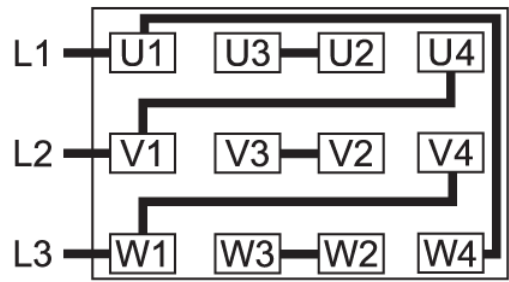
Double star connection, multi-voltage motor with 12 pins (low voltage):



Star connection, multi-voltage motor with 12 pins (high voltage):



Delta connection, multi-voltage motor with 12 pins (middle voltage):



7 Commissioning



NOTICE

Lubricating a dry running machine (compression chamber).

Risk of damage to the machine!

- Do not lubricate the compression chamber of the machine with oil or grease.



CAUTION

In operation, the surface of the machine may reach temperatures over 70°C.

Risk of burns!

- Avoid contact with the machine during and directly after operation.



CAUTION

While operating and/or venting the machine, the discharged gases and/or liquids may reach temperatures above 70°C.

Risk of burns!

- Avoid direct contact with the exhaust connection (OUT) and installed lines or pipes.
- Avoid direct contact with the gas and/or liquid stream, in case the gas discharge (OUT) has no connections (lines or pipes) installed.
- Make sure that the *Installation Conditions* [→ 9] are met.
- Start the machine.
- Make sure that the maximum permissible number of starts does not exceed 12 starts per hour. Those starts should be spread within the hour.
- Make sure that the operating conditions comply with the *Technical Data* [→ 27].

As soon as the machine is used under normal operating conditions:

- Measure the motor current and record it as reference for future maintenance and troubleshooting work.

7.1 Conveying Condensable Vapors



CAUTION

In operation, the surface of the inlet and exhaust connections may reach temperatures over 70°C.

Risk of burns!

- Avoid contact with these surfaces during and directly after operation.



CAUTION

Venting the machine.

The discharged gases and/or liquids may reach temperatures above 70°C!

Risk of burns!

- Avoid direct contact with the flow of gases and/or liquids.



CAUTION



Noise while draining the condensate.

Risk of damage to hearing!

While the machine is running, opening the condensate drain valve will lead to a significant increase of the noise level.

- Make sure to wear hearing protection.

The Aqua version is a design option for conveying condensable vapors (water).

Water vapor within the gas flow is tolerated within certain limits. The conveyance of other vapors shall be agreed upon with the manufacturer.

If condensable vapors are to be conveyed:

- Regularly drain condensate from the silencer with the drain cock.

8 Maintenance



DANGER

Live wires.

Risk of electrical shock!

- Electrical installation work must only be executed by qualified personnel.



WARNING



The machine is contaminated with hazardous material.

Risk of poisoning!

Risk of infection!

If the machine is contaminated with hazardous material:

- Wear appropriate personal protective equipment.



CAUTION

Hot surface.

Risk of burns!

- Before doing anything that requires touching the machine, let it cool down first.



CAUTION

Hot liquids.

Risk of burns!

- Before draining liquids, let the machine cool down first.



CAUTION

Venting the machine.

The discharged gases and/or liquids may reach temperatures above 70°C!

Risk of burns!

- Avoid direct contact with the flow of gases and/or liquids.



CAUTION

Failing to properly maintain the machine.

Risk of injuries!

Risk of premature failure and loss of efficiency!

- Maintenance work must only be executed by qualified personnel.
- Respect the maintenance intervals or ask your Busch representative for service.



NOTICE

Using inappropriate cleaners.

Risk of removing safety stickers and protective paint!

- Do not use incompatible solvents to clean the machine.

- Stop the machine and lock it to prevent accidental start-up.
- Vent the connected lines to atmospheric pressure.

If necessary:

- Disconnect all connections.

8.1 Maintenance Schedule

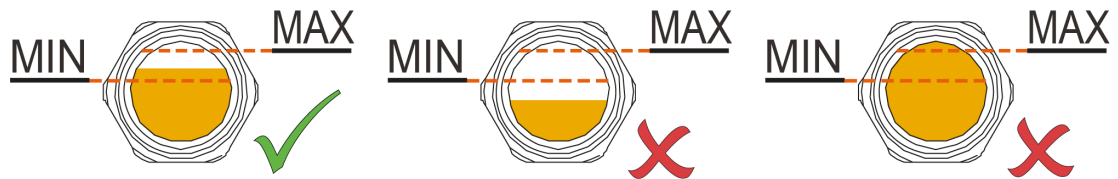
The maintenance intervals depend very much on the individual operating conditions. The intervals given below are considered as starting values which should be individually shortened or extended as appropriate.

Particularly harsh applications or heavy-duty operation, such as high dust loads in the environment or in the process gas, other contamination or ingress of process material, can make it necessary to shorten the maintenance intervals significantly.

Interval	Maintenance work
Monthly	• Check the inlet screen (IS), clean if necessary. In case of an inlet filter (IF) being installed: • Check the inlet filter cartridge, replace if necessary.
Every 3 months	• Check the oil level, see <i>Oil Level Inspection</i> [→ 20].
Every 6 months	• Clean the machine from dust and dirt. In case of a coupling (CPL) being installed: • Check the coupling (CPL) for backlash and wear.
Every 20000 hours	• Change the oil. The change interval of 20000 operating hours is valid for Busch approved oils only. The change interval depends very much on the operating conditions. Borderline operation may reduce the change interval down to approximately 5000 operating hours. Other oils may reduce the change interval.
Every 40000 hours or after 6 years	• Have a major overhaul on the machine (contact Busch).

8.2 Oil Level Inspection

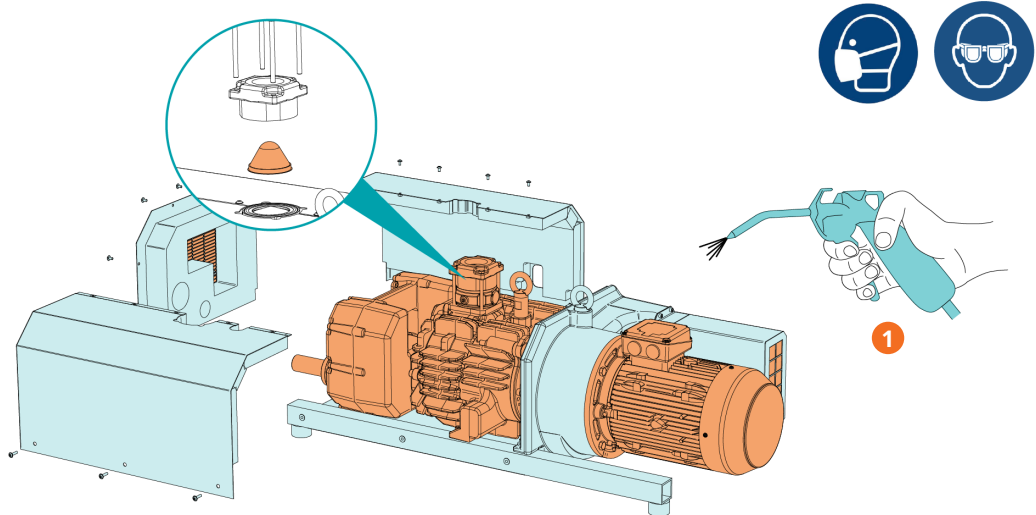
- Stop the machine.
- Wait 1 minute.
- Check the oil level.



The oil level should stay constant over the lifetime of the oil. If the level does fall, this indicates a leak and the machine requires repair.

- Fill up if necessary, see *Filling Oil* [→ 11].

8.3 Cleaning from Dust and Dirt



Description			
1	Clean the ventilation grid, fans, inlet screen and cooling fins		

8.4 Oil Change

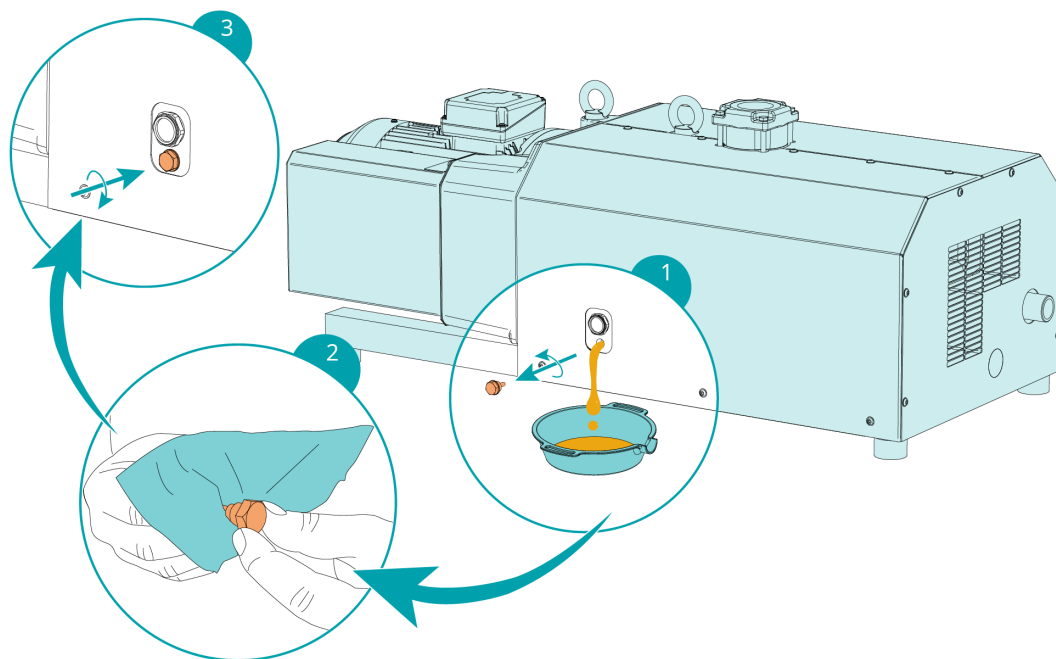
! NOTICE

Use of inappropriate oil.

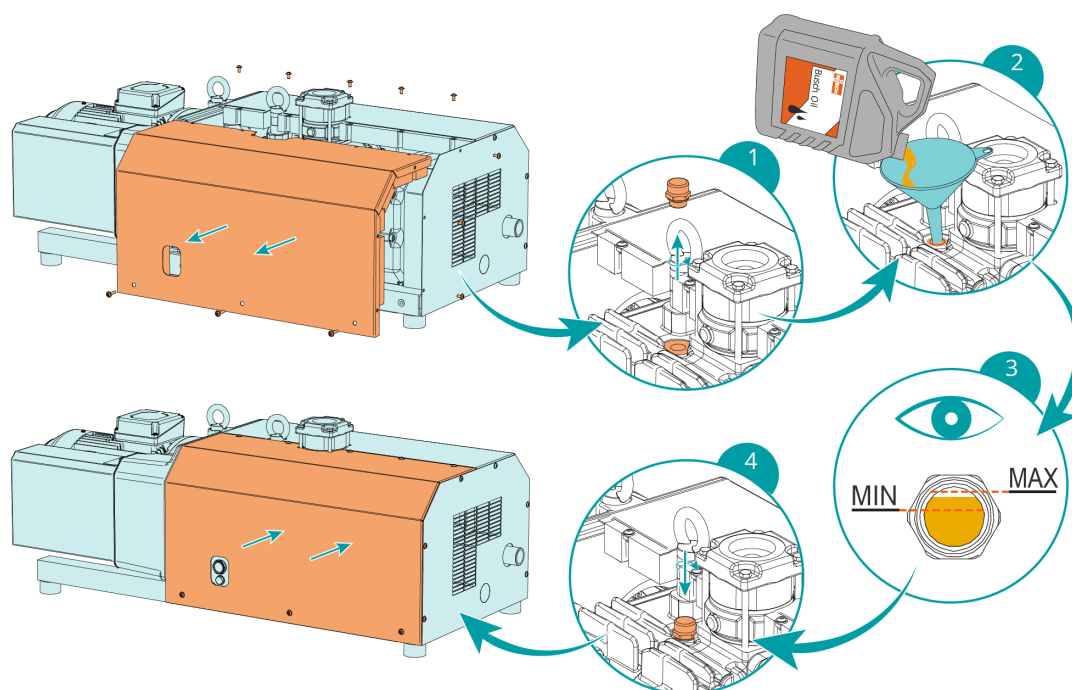
Risk of premature failure!

Loss of efficiency!

- Use only a type of oil previously approved and recommended by the manufacturer.



For oil type and oil capacity see *Technical Data* [→ 27] and Oil chapters.



The oil level should stay constant over the lifetime of the oil. If the level does fall, this indicates a leak and the machine requires repair.

9 Overhaul



WARNING



The machine is contaminated with hazardous material.

Risk of poisoning!

Risk of infection!

If the machine is contaminated with hazardous material:

- Wear appropriate personal protective equipment.



NOTICE

Incorrect assembly.

Risk of premature failure!

Loss of efficiency!

- Any disassembly of the machine beyond that described in this manual must be carried out by technicians approved by Busch.

If the machine has conveyed gas contaminated with foreign materials which are hazardous to health:

- Decontaminate the machine as much as possible and state the contamination status in a 'Declaration of Contamination'.

The manufacturer will only accept machine accompanied by a signed, fully completed and legally binding "declaration of contamination", downloadable from the following link:
buschvacuum.com/declaration-of-contamination.

10 Decommissioning



DANGER

Live wires.

Risk of electrical shock!

- Electrical installation work must only be executed by qualified personnel.



CAUTION

Hot surface.

Risk of burns!

- Before doing anything that requires touching the machine, let it cool down first.



CAUTION

Hot liquids.

Risk of burns!

- Before draining liquids, let the machine cool down first.
- Stop the machine and lock it to prevent accidental start-up.
- Disconnect the power supply.
- Vent the connected lines to atmospheric pressure.
- Disconnect all connections.

If the machine is to be stored:

- See *Storage* [→ 8].

10.1 Dismantling and Disposal

- Drain and collect the oil.
- Make sure that no oil drips onto the floor.
- Separate special waste from the machine.
- Dispose of special waste in compliance with applicable regulations.
- Dispose of the machine as scrap metal.

11 Spare Parts



NOTICE

Use of non-Busch genuine spare parts.

Risk of premature failure!

Loss of efficiency!

- Use only Busch genuine spare parts, consumables and supplies to ensure correct operation of the machine and to validate the warranty.

Spare part	Description	Article number
Service kit	Includes all parts to perform maintenance work	2000 268 575
Gasket kit	Includes all seals	2000 268 578
Inlet screen (IS)		0534 000 041

If other parts are required:

- Contact your Busch representative.

12 Troubleshooting



DANGER

Live wires.

Risk of electrical shock!

- Electrical installation work must only be executed by qualified personnel.



CAUTION

Hot surface.

Risk of burns!

- Before doing anything that requires touching the machine, let it cool down first.

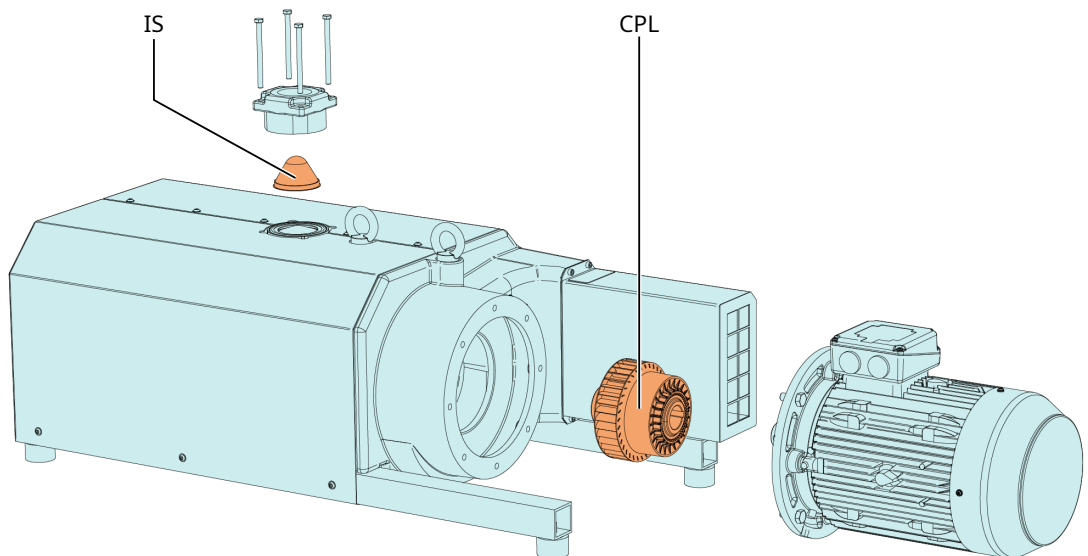


CAUTION

Hot liquids.

Risk of burns!

- Before draining liquids, let the machine cool down first.



Description

IS	Inlet screen	CPL	Coupling
----	--------------	-----	----------

Problem

The machine does not start.

Possible Cause

- The motor is not supplied with the correct voltage.
- The motor is defective.
- The coupling (CPL) is defective.

Remedy

- Check the power supply.
- Replace the motor (contact Busch).
- Replace the coupling (CPL) (contact Busch).

Problem	Possible Cause	Remedy
The machine does not reach the usual pressure at the inlet connection.	The inlet screen (IS) is partially clogged.	• Clean the inlet screen (IS).
	The inlet filter cartridge (optional) is partially clogged.	• Replace the inlet filter cartridge.
	The non-return flap of the bypass isn't working properly.	• Clean or replace the non-return flap.
	Leakage in the return line of the bypass or blocked bypass valve.	• Tighten the leakage, replace defective parts.
	Internal parts are worn or damaged.	• Repair the machine (contact Busch).
The machine runs very noisily.	Worn coupling (CPL).	• Replace the coupling (CPL) (contact Busch).
	Oil level too low.	• Top up oil.
	Defective bearings.	• Repair the machine (contact Busch).
The machine runs too hot.	Insufficient cooling.	• Remove dust and dirt from the machine .
	Ambient temperature too high.	• Observe the permitted ambient temperature, see <i>Technical Data</i> [→ 27].
	Temperature of the process gases at the inlet too high.	• Observe the permitted gas inlet temperature, see <i>Technical Data</i> [→ 27].
	Oil level too low.	• Top up oil.

For resolution of problems not listed in the troubleshooting table, contact your Busch representative.

13 Technical Data

MW 0332 B		
Nominal pumping speed (50 / 60 Hz)	m ³ /h	280 / 330
	ACFM	– / 194
Ultimate pressure	hPa (mbar) abs.	0.8
	Torr abs.	0.6
Nominal motor rating (50 / 60 Hz)	kW	7.5 / 9.5
	hp	– / 12.1
Power consumption at ultimate pressure (50 / 60 Hz)	kW	3.7 / 4.7
	hp	– / 5.4
Nominal motor speed (50 / 60 Hz)	min ⁻¹	3000 / 3600
	rpm	3000 / 3600
Permitted motor speed	min ⁻¹	1200 ... 3600 at ≥ 0.8 hPa (mbar) abs.
	rpm	1200 ... 3600 at ≥ 0.6 Torr abs.
Sound pressure level (ISO 2151) at ultimate pressure (50 / 60 Hz)	dB(A)	70 / 73
Ambient temperature	°C	0 ... 40 *
	°F	32 ... 104 *
Inlet gas temperature	°C	0 ... 40 *
	°F	32 ... 104 *
Ambient pressure		Atmospheric pressure
Oil capacity	l	1.2
	qts.	1.05
Weight approx.	kg	325 **
	Lbs.	716 **

* In case of higher or lower temperatures, please consult your Busch representative.

** The weight can vary depending on the order.

14 Oil

Name	ISO-VG	Oil type	0.1 L packing	0.5 L packing	1 L packing	5 L packing
VS 150	150	Synthetic	-	0831 168 695	0831 164 883	0831 164 884

To find out which oil needs to be filled into the machine, refer to the name plate (NP).

Oil suitability

- **Oil VS 150:** Suitable for standard applications.

15 EU Declaration of Conformity

This Declaration of Conformity and the CE-markings affixed to the name plate are valid for the machine within the Busch scope of delivery. This Declaration of Conformity is issued under the sole responsibility of the manufacturer.

When this machine is integrated into a superordinate machinery, the manufacturer of the superordinate machinery (this can be the operating company, too) must conduct the conformity assessment process for the superordinate machine or plant, issue the Declaration of Conformity for it and affix the CE-marking.

The manufacturer **Busch Produktions GmbH**
Schauinslandstr. 1
DE-79689 Maulburg

declares that the machine: MINK MW 0332 B
fulfill(s) all the relevant provisions from EU directives:

- 'Machinery' 2006/42/EC
- 'Electromagnetic Compatibility' (EMC) 2014/30/EU
- 'RoHS' 2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment (incl. all related applicable amendments)

and comply(-ies) with the following harmonized standards that have been used to fulfill those provisions:

Standard	Title of the Standard
EN ISO 12100 : 2010	Safety of machinery - Basic concepts, general principles of design
EN 1012-2 : 1996 + A1 : 2009	Vacuum pumps - Safety requirements - Part 2
EN 60204-1 : 2018	Safety of machinery - Electrical equipment of machines - Part 1: General requirements
EN ISO 13857 : 2019	Safety of machinery - Safety distances to prevent hazard zones being reached by the upper and lower limbs
EN ISO 3744 : 2010	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane
EN IEC 61000-6-2 : 2019	Electromagnetic compatibility (EMC) - Generic standards. Immunity for industrial environments
EN IEC 61000-6-4 : 2019	Electromagnetic compatibility (EMC) - Generic standards. Emission standard for industrial environments

Legal person authorized to compile the technical file and authorized representative in the EU
(if the manufacturer is not located in the EU): **Busch Dienste GmbH**
Schauinslandstr. 1
DE-79689 Maulburg

Maulburg, 2025.01.02



Dr. Martin Gutmann, General Manager
Busch Produktions GmbH

16 UK Declaration of Conformity

This Declaration of Conformity and the UKCA-markings affixed to the name plate are valid for the machine within the Busch scope of delivery. This Declaration of Conformity is issued under the sole responsibility of the manufacturer.

When this machine is integrated into a superordinate machinery, the manufacturer of the superordinate machinery (this can be the operating company, too) must conduct the conformity assessment process for the superordinate machine or plant, issue the Declaration of Conformity for it and affix the UKCA-marking.

The manufacturer

Busch Produktions GmbH
Schauinslandstr. 1
DE-79689 Maulburg

declares that the machine: MINK MW 0332 B

fulfill(s) all the relevant provisions from UK legislations:

- Supply of Machinery (Safety) Regulations 2008
- Electromagnetic Compatibility Regulations 2016
- Restriction of the use of certain hazardous substances in Electrical and Electronic Equipment Regulations 2012

and comply(-ies) with the following designated standards that have been used to fulfill those provisions:

Standard	Title of the Standard
EN ISO 12100 : 2010	Safety of machinery - Basic concepts, general principles of design
EN 1012-2 : 1996 + A1 : 2009	Vacuum pumps - Safety requirements - Part 2
EN 60204-1 : 2018	Safety of machinery - Electrical equipment of machines - Part 1: General requirements
EN ISO 13857 : 2019	Safety of machinery - Safety distances to prevent hazard zones being reached by the upper and lower limbs
EN ISO 3744 : 2010	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane
EN IEC 61000-6-2 : 2019	Electromagnetic compatibility (EMC) - Generic standards. Immunity for industrial environments
EN IEC 61000-6-4 : 2019	Electromagnetic compatibility (EMC) - Generic standards. Emission standard for industrial environments

Legal person authorized to compile the technical file and importer in the UK
 (if the manufacturer is not located in the UK):

Busch (UK) Ltd
30 Hortonwood
Telford – UK

Maulburg, 2025.01.02



Dr. Martin Gutmann, General Manager
Busch Produktions GmbH

Notes

Grid of dots for notes.

BUSCH GROUP

The Busch Group is one of the world's largest manufacturers of vacuum pumps, vacuum systems, blowers, compressors and gas abatement systems. Under its umbrella, the group houses two well-known brands: Busch Vacuum Solutions and Pfeiffer Vacuum+Fab Solutions. Together, they offer solutions to a wide range of industries. A global network of highly competent local teams in 44 countries ensures that expert, tailor-made support is always available near you. Wherever you are. Whatever your business.



● Busch Group companies

▲ Busch Group production sites

● Busch Group service centers

■ Busch Group local representatives

www.buschvacuum.com

www.pfeiffer-vacuum.com