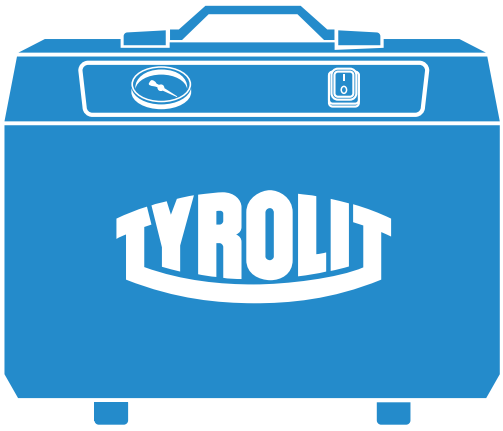
★★★
PREMIUM

Manual
Vacuum Pump VPE600

Index 000



Translation of the original instructions
11002777 en / 27/01/2022

Congratulations!

You have decided to purchase a tried-and-tested TYROLIT Hydrostress unit and have thus acquired a highly sophisticated and reliable state-of-the-art device. Only genuine TYROLIT Hydrostress spare parts can guarantee quality and interchangeability. If maintenance work is neglected or carried out improperly, we will be unable to honour our warranty obligations.

All repairs must be carried out by trained personnel only.

Our after-sales service is available to help make sure your TYROLIT Hydrostress units remain in perfect working order.

We hope that working with your TYROLIT unit will be a satisfying and fault-free experience.

TYROLIT Hydrostress

TYROLIT Hydrostress AG
Witzbergstrasse 18
CH-8330 Pfäffikon
Switzerland
Tel. 0041 (0) 44 952 18 18
Fax 0041 (0) 44 952 18 00

www.tyrolit.com

Table of contents

1. Safety

1.1 Safety instructions

- Use the system solely in accordance with the operating instructions.
- Observe the safety instructions in Section 1.2.
- Check first of all whether the mains voltage corresponds to the operating voltage on the rating plate on the vacuum system.
- The vacuum pump must only be connected to an approved earthed socket. The protective earth connection must not be disconnected.
- Check the connecting cable and, if relevant, the extension cable regularly for damage.
- Check hose for damage; use suitable vacuum hoses that are heat resistant up to at least 80 °C.
- Please observe that electrical appliances must only be repaired, maintained and inspected by qualified electricians in accordance with the national regulations (e.g. VBG 4), as improper repairs can result in significant hazards for the user.
- Use only TYROLIT spare parts.
- TYROLIT accepts no liability for damage caused by non-observance of the operating instructions, incorrect use, improper repairs or incorrect applications.

Danger
Please wear hearing protection, as the noise level can exceed 80 dB during use.

The national occupational health and safety regulations apply for the correct use.

For electrical equipment that we introduce on the market, we observe the regulations issued in the law on technical working equipment that serves to prevent risks to life and health.

The relevant national accident prevention regulations must be observed when commissioning, using and maintaining the vacuum system.
The vacuum system must only be used in conjunction with a suitable working device.

Warning of electrical voltage
Warns of dangerous electrical voltage! Warning signs are safety signs that warn about risk or danger. DIN 4844-2 Graphical symbols - Safety colours and safety signs - Part 2: Registered safety signs.
BGV A 8: Safety and Health Protection Signage at the Place of Work – Appendix 2 W08 Warning of dangerous electrical voltage (lightning bolt warning sign).

1.2 General power tool safety warnings

WARNING
Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
Save all warnings and instructions for future reference.
The term „power tool“ in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1. Work area safety

a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.

b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2. Electrical safety

a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

3. Personal safety

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries

c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

h) Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

4. Power tool use and care

a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e) Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

h) Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5. Battery tool use and care

a) Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

b) Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

c) When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

d) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

e) Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.

f) Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130° C (265 °F) may cause explosion.

g) Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

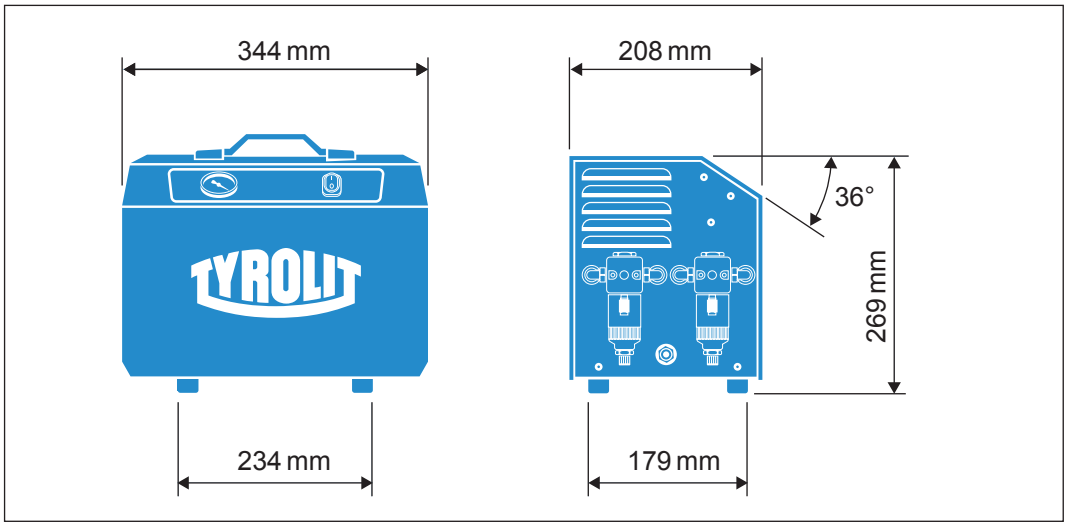
6. Service

a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

b) Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.

2. Technical data

2.1 Dimensions



Dimensions

2.2 Technical data

Technical data	
Operating voltage / frequency	230V, 50/60Hz 1p +/- 5%
Rated current approx.	1.6 / 1.8 A
Fuse protection	3.15 AT
Speed	2800 / 3400 RPM
Ultimate vacuum	approx. - 900 mbar
Protection class	IP 54
Sound pressure level	78 dB
Pump output	approx. 6 m^3/ h
Ambient temperature	-10 °C to +40 °C
Vacuum tank	Fitted
Weight	12.0 kg

3. Design and function

3.1 Function and operating principle of the vacuum system

You have purchased a dry-running rotary-vane-pump vacuum system that runs 100% oil-free. Advantage: high output, no 100% failure due to wear. Through the use of high-quality components, the vacuum system achieves a long service life.
High level of safety due to a robust aluminium housing. The water separator's replaceable filter is freely accessible from the outside and can be replaced very easily. The system's air intake is via the internal suction filter with muffler function.

4. Before commissioning

- Check the data on the rating plate to ensure that the requirements have been fulfilled.
  – For emergency power generators (device must provide corresponding power).
  – Warning! In countries in which large voltage fluctuations can occur:

Consequences ⇨ Motor damage, shorter service life.

- The pump is to be set up so that the motor's intake air and exhaust air can circulate well and the pump cannot wander, e.g. due to vibration. Air vents in the housing must be kept clear and clean. The pump must not be operated in a closed cabinet unless this is sufficiently cooled or ventilated by a fan.

Consequences ⇨ Motor damage, shorter service life. Observe the unit's protection class!

Danger
Never suck in inflammable, liquid or explosive media or other hazardous substances!

5. Commissioning

Connect air hose to the suction and pressure ports. Pay attention here to the length of the hose and to electrical tools as well as to blocked nozzles.
Attention:
Example: for an inside diameter of 6 mm the hose should not be longer than 25 metres. If longer hoses are used, use a hose with a larger inside diameter. Please ensure that the air hose used is designed for use above 80 °C, as depending on the application the temperature of the pump can exceed 80 °C.
Consequences:⇨ Output lower due to high flow resistance in the hose. Operating pressure increases ⇨ Pump heats up. Air hose contracts (temperature).

a Connect mains cable
b Switch on unit at main switch

6. Instructions for use

Always perform the following tasks after use:
- Switch off the unit at the main switch.
- Pull the mains cable out of the mains plug.
- Release the vacuum.
- Regularly check the connecting cable for damage.

When ordering spare parts, please state our order number, serial number and year of manufacture. The data can be found on the rating plate.

Danger
Warning of hot surface!
After use, the housing and the hose connection can be very hot!
Risk of burns

BGV = regulations issued by the Berufsgenossenschaft, the German Employers' Liability Insurance Association
(DGUV Regulation 9 - Safety and Health Protection Signage at the Place of Work)

7. Maintenance and care

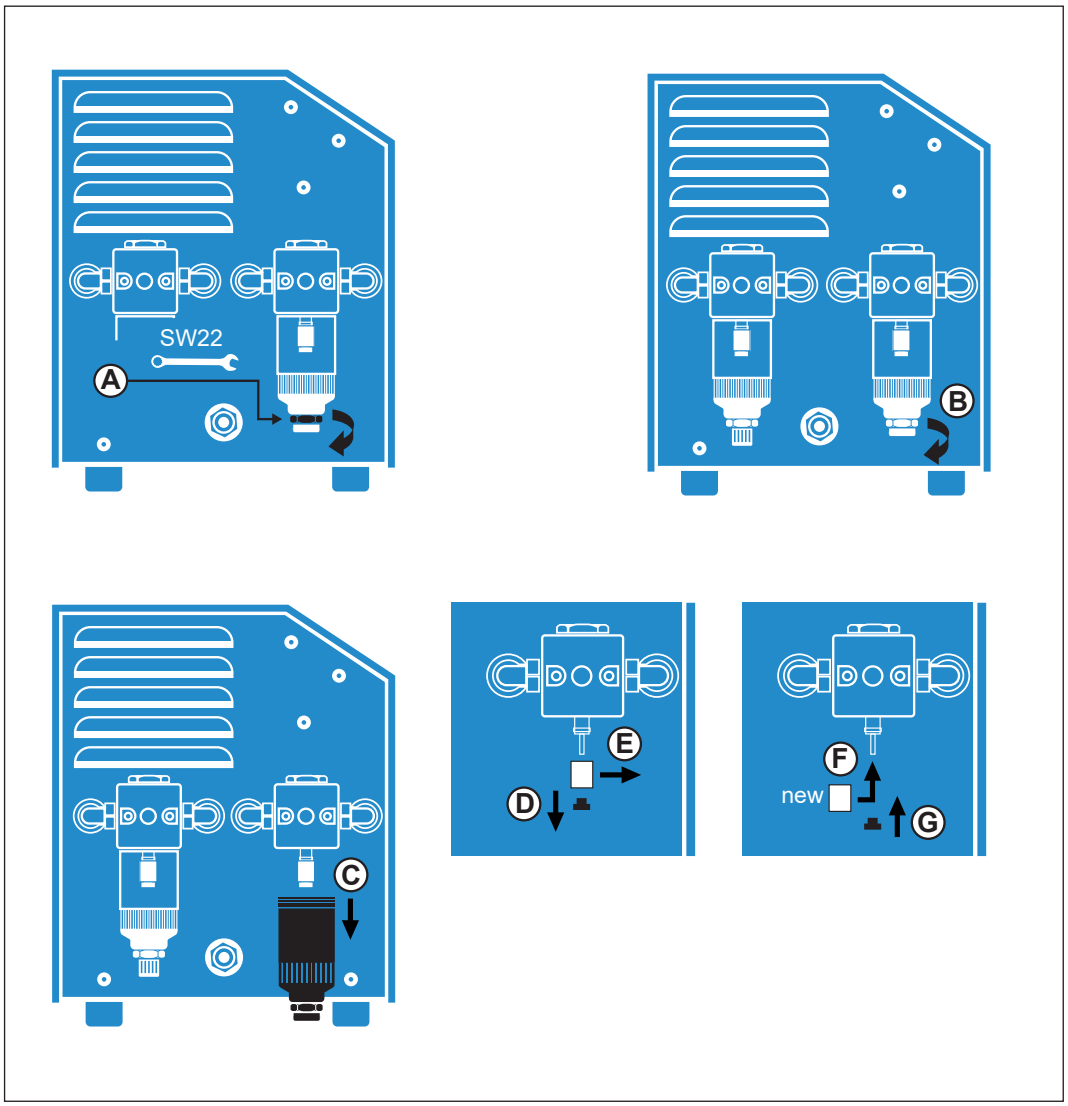
Please observe that electrical appliances must only be repaired, maintained and inspected by qualified electricians in accordance with the national regulations (e.g. VBG 4), as improper repairs can result in significant hazards for the user.

Danger
Before cleaning, always switch the system off and pull the power cable out of the socket!

- Do not spray down the vacuum system with a high-pressure cleaner, only clean the outside from time to time with a cleaning cloth. Mask off all openings in the system before cleaning with water.
- Ensure no liquids enter the air intake system.
- We recommend regular maintenance. The maintenance intervals depend on the application (yearly maintenance is recommend).

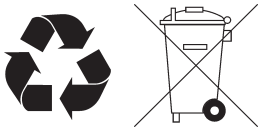
Damage due to incorrect use, overloading or wear are not covered by the warranty. We assume warranty for damage caused by material or manufacturing faults.
Maintenance and repair work is only to be performed by our after-sales service department (central repair department).

7.1 Changing the filter



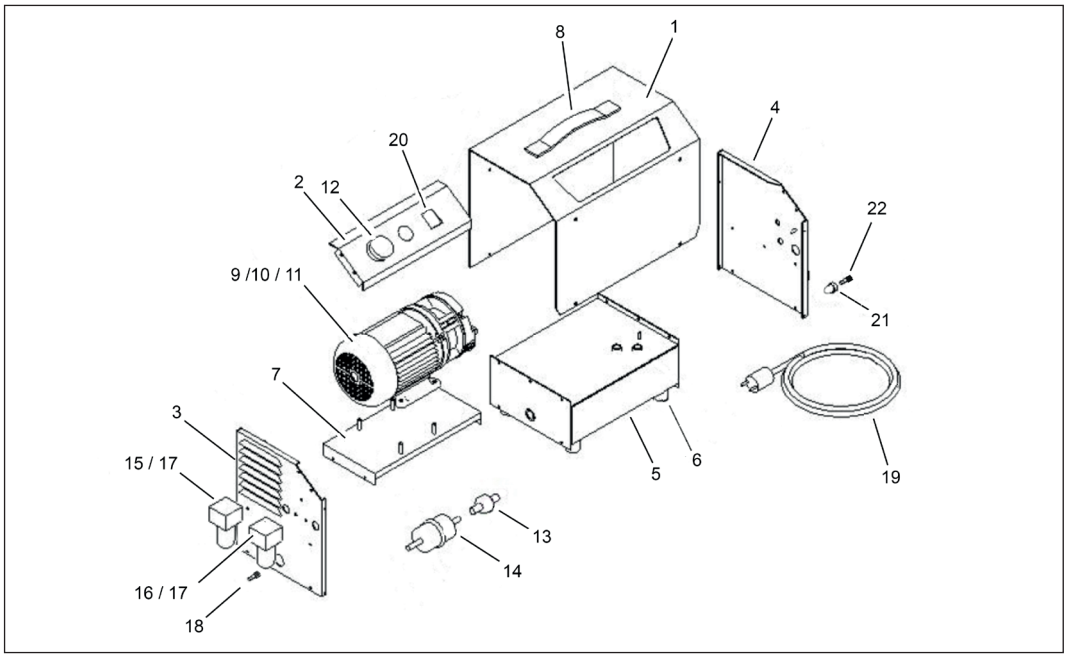
Changing the filter

7.2 Recycling waste



TYROLIT Hydrostress power tools are manufactured using a high proportion of recyclable materials. A prerequisite for recycling is proper material separation. In many countries, TYROLIT is already prepared for taking back your used equipment for recycling. Contact TYROLIT customer service or your sales adviser.

8. Spare parts



Spare parts

Spare parts			
1	11002755	Haube	Housing
2	11002756	Frontplatte	Front plate
3	11002757	Seitenteil links	Side plate left
4	11002758	Seitenteil rechts	Side plate right
5	11002759	Vakuumbehälter	Vacuum tank
6	11002760	Gehäusefuss	Housing foot
7	11002761	Innenblech	Inner plate
8	11002762	Grip	Carrying handle
9	11002763	Drehsch.-pumpe mit Motor	Rotary vane pump with motor
10	11002764	Rotor	Rotor
11	11002765	Ersatzteilset Vakuumpumpe	Spare part set for vacuum pump
12	11002766	Einbaumanometer	Built-in manometer
13	11002767	Rückschlagventil 2x 3/8 I	Check valve 2x 3/8 f
14	11002768	Filter AD=35mm transparent	Filter OD=35mm transparent
15	11002769	Wasserscheider mit Vorfilter	Water separator with pre-filter
16	11002770	Wasserscheider mit Sicherung	Water separator with protection
17	11002771	Filter Wasserabscheider	Filter water separator
18	11001069	Stecknippel Dm 8 3/8 A	Plug-in nipple dia. 8 3/8 A
19	11002772	Netzleitung mit Stecker	Power cable with plug
20	11002773	Wippschalter grün 2-polig	Rocker switch green two-pin
21	11002774	Sicherungshalter	Fuse holder
22	11002775	Glassicherung 3,15 AT	Glass fuse 3.15 AT

9. EC Declaration of Conformity

Description	Vacuum pump
Type designation	VPE600

We declare under our sole responsibility that this product complies with the following directives and standards.

Directive applied

2006/42/EC	from 17 May 2006
2014/30/EU	from 26 February 2014
2014/35/EU	

TYROLIT Hydrostress AG
Witzbergstrasse 18
CH-8330 Pfäffikon
Switzerland

Pfäffikon, 15/12/2020

Roland Kägi
Operations + R&D Machines

Notes

TYROLIT CONSTRUCTION PRODUCTS GMBH
Swarovskistraße 33 | 6130 Schwaz | Austria
Tel +43 5242 606-0 | Fax +43 5242 63398

Our **worldwide subsidiary companies** are listed
on our website at **www.tyrolit.com**