

OTTOVAC DIGITAL BY GRABO®

PORTABLE ELECTRIC VACUUM LIFTING DEVICE OPERATOR'S MANUAL



EN PORTABLE ELECTRIC VACUUM LIFTING DEVICE SE BÄRBAR ELEKTRISK VAKUUM LYFTANORDNING

NL DRAAGBAAR ELEKTRISCH VACUÛM-HEFTOESTEL DK BÆRBAR ELEKTRISK VAKUUM-SUGEKOP

DE TRAGBARES ELEKTRISCHES VAKUUMHEBEGERÄT AR جهاز رفع فراغي كهربائي محمول

FR DISPOSITIF DE LEVAGE À VIDE ÉLECTRIQUE PORTABLE RU ПОРТАТИВНОЕ ЭЛЕКТРИЧЕСКОЕ ВАКУУМНОЕ ПОДЪЕМНОЕ УСТРОЙСТВО

ES ELEVADOR DE VACÍO ELÉCTRICO PORTÁTIL TR TAŞINABİLİR ELEKTRİKLI VAKUMLU KALDIRMA ALETİ

IT DISPOSITIVO DI SOLLEVAMENTO SOTTOVUOTO ELETTRICO PORTATILE

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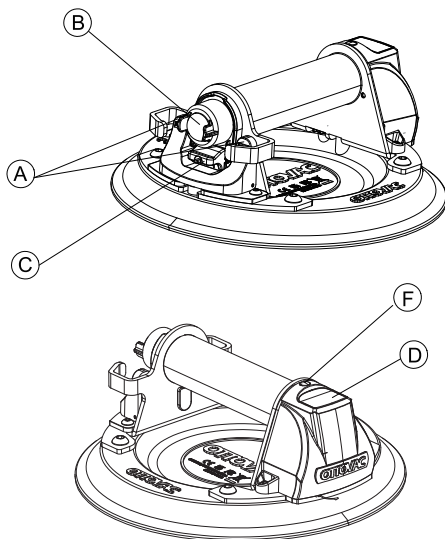
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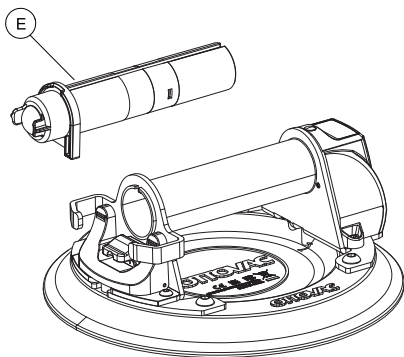
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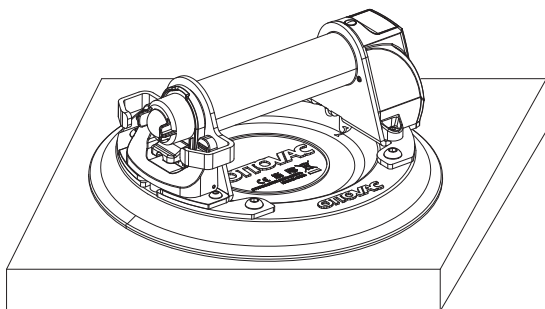
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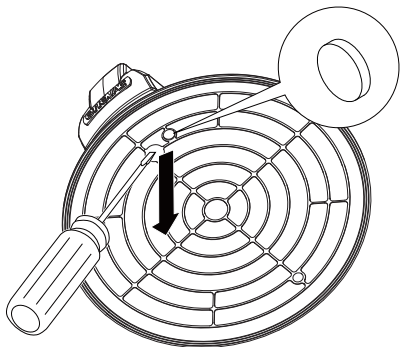
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OTTOVAC DIGITAL BY GRABO®

INTRODUCTION

The OTTOVAC DIGITAL is a portable electric vacuum lifting device intended to lift and move glass and any other material with a smooth, flat, and non-porous surface. The OTTOVAC DIGITAL has a built-in pressure sensor with an automatic start/stop function. When the vacuum in the suction cup's base reaches -0.55 bar, the pump will automatically stop after a two-second delay. When the vacuum level drops below -0.55 bar, the pump will automatically restart, reaching the required pressure during operation.

The OTTOVAC DIGITAL is **not** intended:

- To be used for climbing or for securing the human body in any way. This product is not designed or intended for climbing or to support a person's weight. Using this product for climbing or any other unintended purpose may result in injury or death.
 - To lift, move, or place objects of very porous, soft/flexible, or soft crumbling materials, such as simple cardboard boxes, styrofoam, dry cast pavers, or low-quality concrete.
- ! Read this instruction manual carefully before use and save it for future reference. ②

TECHNICAL SPECIFICATIONS

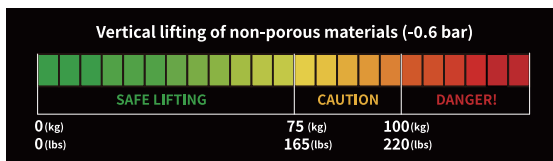
Electric vacuum lifting device	OTTOVAC DIGITAL
Model	OTTOVAC DIGITAL-OVD-V1
Batteries	18500 2S1P
Working voltage	6 V
Rated power	3 W
Running cycles	1,500 ON-OFF cycles
Pump service life	> 10,000 ON-OFF cycles, 300+ hours continuous
Rated airflow	4 l/min
Maximum vacuum rate	-0.6 bar (-60 kPa)
Maximum lifting capacity	150 kg (330 lbs)
L x W x H	208 x 208 x 84 mm
Net weight (with battery)	1.2 kg (2.6 lbs)
Working temperature	0 to 60°C (32°F to 140°F)

⚠ WARNING: Read all the safety warnings and instructions and store them safely for future reference. Failure to adhere to these warnings may result in serious injury and damage to equipment.

OTTOVAC DIGITAL LIFTING CAPACITY

NOTICE: The OTTOVAC DIGITAL has been tested up to 150 kg (330 lbs) at maximum lifting force under ideal test conditions. However, this test weight figure is the breaking point under optimal laboratory test conditions and must never be reached in any real-world application!

Local regulations may require different safety margins to be used, and the official device Working Load Limit (WLL) has been set to 75 kg (165 lbs) based on a 2:1 ratio and 100 kg (220 lbs) on a 3:2 ratio for a non-porous surface. The Working Load Limit of 75 kg (165 lbs) is 1/2 of the maximum lifting force tested, and 100 kg (220 lbs) is 2/3 of the maximum lifting force tested under ideal conditions of 150 kg (330 lbs). This Working Load Limit must be adhered to when working in countries where the 2:1 and 3:2 safety margin applies. Use the chart below to estimate safe lifting values:



WLL: 2:1 ratio of 75 kg (165 lbs), 3:2 ratio of 100 kg (220 lbs) on non-porous surfaces

IMPORTANT: The lifting force is highly dependent on the lifted surface and factors such as temperature, altitude (ambient pressure), and other factors.

Always check the pressure displayed on the OTTOVAC DIGITAL display screen and do not rely solely on the **Estimated Maximum Lifting Forces Chart** when lifting different materials since different factors related to your specific application may reduce lifting capabilities of the device.

Estimated maximum lifting forces as tested on different materials

	Perpendicular holding force	Parallel holding force
Glass	150 kg (330 lbs)	150 kg (330 lbs)
Ceramic tile	150 kg (330 lbs)	150 kg (330 lbs)

NOTICE: When the vacuum level drops below -0.55 Bar (-55 kPa), the OTTOVAC DIGITAL will automatically restart the pump (when the pump is switched on), thereby achieving the pressure required for use.

SCOPE OF DELIVERY

NOTICE: The exact scope of delivery may change, but it will always contain the items listed below. If your delivery contains any additional items, these will be listed separately.

BASIC OTTOVAC DIGITAL SCOPE OF DELIVERY:

- OTTOVAC DIGITAL device
- Type C charging cable
- Operator's manual
- Carrying case
- OTTOVAC DIGITAL Li-ion battery

TOOL ELEMENTS ①

- | | |
|---------------------------------------|------------------------------|
| A. Pressure release button | E. Li-ion battery |
| B. Power ON/OFF button | F. Measurement unit selector |
| C. Battery compartment release button | |
| D. Digital display screen | |

SAFETY

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 personal 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 your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- b. **Do not operate power tools in an explosive atmosphere, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks that can ignite 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 or grounded power tools.** Unmodified plugs and matching outlets

will reduce the 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 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 the 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.** The 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.** The 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, nonskid

safety shoes, a 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 a power source and/or battery and picking up or carrying the tool.** Carrying power tools with your finger on the switch or energizing 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 jewelry. Keep your hair and clothing away from moving parts. Loose clothes, jewelry, 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.** Removal of dust can reduce dust-related hazards.
- h. **Do not let familiarity gained from the 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 on and off easily.** 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, 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. 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.** Poorly maintained power tools cause many accidents.
- 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, 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 may create a risk of fire when used with another battery.
- b. **Use power tools only with specifically designated batteries.** Use of any other battery may create a risk of injury and fire.
- c. **When the battery is not in use, keep it away from other metal objects, such as paper clips, coins, keys, nails, screws, or other small metal objects that may 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 the eyes, seek medical help.** Liquid ejected from the battery may cause irritation or burns.
- e. **Do not use a battery or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behavior, resulting in fire, explosion, or risk of injury.
- f. **Do not expose a battery or tool to fire or excessive temperature.** Exposure to fire or temperature above 130°C / 265°F may cause an explosion.
- g. **Follow all charging instructions, and do not charge the battery 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 a damaged battery. Service of the battery should only be performed by the manufacturer or authorized service providers.

VACUUM LIFTING DEVICE

SAFETY WARNINGS / INSTRUCTION

- a. **Do not deliberately try to rip the load off with extreme force.** There is a risk of the load crushing feet or hands and damaging the object and tool.
- b. **Do not lift objects weighing more than 150 kg (330 lbs).** There is a risk the object will fall off.
- c. **Risk of the load crushing feet and hands and damaging the object and tool.** Do not shake the tool while lifting, moving, and placing objects. Do not swing or shake the load while lifting, moving, and placing objects. Do not use the tool when the seal is worn out. Lift and carry the load with uniform speed without sudden sharp and strong movements.
- d. **Do not use the tool while the battery is low.** There is a risk of injury and damage to the materials being lifted.
- e. **Do not attach the tool to surfaces with visible puddles of water.** Internal components are not waterproof. If water is sucked into the air ducts, it can cause permanent damage to the tool. The OTTOVAC DIGITAL is not waterproof; therefore, extreme caution should be taken when using it in rain or wet conditions.
- f. **Do not drop the tool from heights above 1.5 meters above the ground (chest level).** If dropped by accident, inspect the OTTOVAC DIGITAL for damage.
- g. **Do not place heavy objects on top of the tool.**
- h. **To avoid overheating, do not cover the tool.**
- i. **Ensure the power ON/OFF button is off before transporting the tool and when in storage.** Be mindful that the tool is not switched on accidentally.
- j. **NOTICE:** Due to the high pressure created by the OTTOVAC DIGITAL, we strongly recommend that you do not attempt to attach the OTTOVAC DIGITAL to glass thinner than 6mm. Damage can occur to glass that is less than 6mm thick.
- k. The OTTOVAC DIGITAL is not designed or intended for climbing or securing people in any way. Using this product for climbing or any other unintended purpose may result in injury or death.
- l. Before each use, make sure the suction pad is smooth, clean, undamaged, and without any cracks.
- m. Clean the suction pad regularly with methylated spirit or other non-aggressive cleaners.
- n. Ensure the surface/object to be lifted is made of non-porous material. In addition, the surface must be clean, dry, and free of oils and grease.
- o. On rough or porous surfaces, the holding capacity decreases or is non-existent.
- p. Do not use sharp objects to loosen the suction lifter from the surface, as this will damage the suction pad.
- q. Only use the suction lifter if you are experienced or supervised by someone experienced in handling this tool.

- r. Always test the functioning of the suction lifter before use. Examine the handle for dents or cracks. Examine the rubber pad for excessive glaze, cuts, or roughness.
- s. The OTTOVAC DIGITAL should only be used for lifting, carrying, and holding objects for a short period of time. However, in cases of long periods of attachment, check the digital display screen  regularly to ensure a firm grip.
- t. The OTTOVAC DIGITAL is a hand tool and should not be used as a crane, hoist, or similar. Store OTTOVAC DIGITAL in a flat position when not in use in its original storage box.
- u. Before use, always check the rubber pads for possible loss of suction capacity due to reduced elasticity caused by excessive age, usage, maintenance, storage, etc. Rubber pads that are damaged or lack sufficient suction capacity must be replaced. Never use OTTOVAC DIGITAL with damaged rubber pads or insufficient suction capacity!
- v. Do not exceed the stated lifting capacity. Cold temperatures, humidity, pollution, damaged suction pads, or using materials other than glass and smooth, flat, non-porous material may considerably reduce the holding capacity.
- w. Do not place the cup face against surfaces that could damage the sealing edges.
- x. Do not touch the pressure release button  while lifting. Do not use solvents, gasoline, or harsh chemicals on the suction pad.

If the OTTOVAC DIGITAL sealing force begins to noticeably decrease while the battery is fully charged, check the silicone chassis for wear and tear, damage, or dirt. Do not attempt to lift anything with the OTTOVAC DIGITAL until the issue is resolved. In case of wear and tear or damage, replace the silicone chassis. In case of dirt (for example, sand or dust inside the lip of the silicone chassis), clean it before use.

! WARNING: Weight may drop without warning if the safety precautions are not met! The OTTOVAC DIGITAL creates a strong vacuum. If the seal is broken, the allowed weight is exceeded, or any other factor causes the negative pressure to release spontaneously, this kind of failure will happen suddenly and without any sensory indication or warning. You will not notice the weight detaching, and there will be no possibility to stop or catch it. This is very dangerous, especially with heavy loads. Therefore all safety precautions should be fully followed.

EXPLANATION OF SYMBOLS USED ON THE TOOL

- ② Read the operator's manual before use.
- ③ Wear protective shoes and gloves.
- ④ Do not dispose of the tool/device together with household waste material.

NOISE EMISSION/VIBRATION

- A-weighted sound pressure level $L_p A = 79.4$ dB(A), uncertainty $K = 3$ dB(A). A-weighted sound power level $L_w A = 71.4$ dB(A), uncertainty $K = 3$ dB(A).
- Vibration total value $= 1.240$ m/s², uncertainty $K = 0.11$ m/s². The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another. The declared vibration total value may also be used in a preliminary assessment of exposure.

! WARNING: The vibration emission during the actual use of the power tool can differ from the declared total value depending on how the tool is used. It's necessary to identify safety measures to protect the operator based on an estimation of exposure in the actual conditions of use (under consideration of all parts of the operating cycle, such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

TRANSPORT

The OTTOVAC DIGITAL is shipped with 7.4 V 2000 mah Li-ion batteries.

OPERATION

LIFTING TECHNIQUES

- Plan ahead. Know what you are lifting and how you will lift it. Be aware of the weight of the object. Determine whether or not it is safe to lift on your own. Make sure the work area is flat, dry, and clear of debris.
- Check your path. Make sure the lift path is clear. Remove any tripping hazards or debris. Check for any wet or slick surfaces.
- Use ergonomic equipment. Use lift assists such as a forklift, dolly, cart, hand truck, or hoist.
- Make sure you are trained before using the equipment.
- Get help when needed. When lifting awkward or heavy loads, utilize a two-person lift. Make sure you lift at the same time and keep the load level.
- Wear proper required protective shoes and gloves.
 - !** Use this basic lifting technique for small objects when straddling the load and using a wide stance.

1. Get as close to the object as possible.
2. Use a wide stance with one foot forward and to the side of the object for good balance.
3. Keep your back straight, push your buttocks out. Use your legs and hips to lower yourself down to the object.
4. Move the object as close to you as possible.
5. Put your hand (the same side of your body as the forward foot) on the side of the object farthest from you.
6. When lifting the load, hold the OTTOVAC DIGITAL with one hand and secure the load with your other hand.
7. To prepare for lifting, tighten your core muscles, look forward and upward, and maintain a straight and strong back.
 - ! Do not hold your breath while lifting. Do not bend or twist your waist. Do not use a partial grip (1-2 fingers). Do not obstruct your vision when carrying. Do not jerk or lift quickly. Do not pinch your fingers or toes.
8. Lift slowly and follow with your head and shoulders. Hold the load close to your body. Lift by extending your legs with your back straight, and breathe out as you lift. Pivot your feet to avoid twisting.

OPERATING THE OTTOVAC DIGITAL 6

1. **Placement:** Firmly position the OTTOVAC DIGITAL against the surface of the object to be lifted.
2. **Activation:** Press the power ON/OFF button  to activate the motor and create a secure seal. This process will take only a few seconds.
3. **Display Monitoring:** The digital display screen will show unit values in bar, psi, kg, and lbs. The battery power level will also be indicated by 5 green lights.
4. **Automatic Pump Control:** Once maximum pressure is reached, the sensor will automatically turn off the pump. Ensure the motor is switched on for this automatic function.
5. **Deactivation:** After use, press the power ON/OFF button  to turn off the motor.
6. **Release:** Press the Pressure release button  to break the seal and release the object.

 **WARNING:** A single red bar on the battery indicator signifies low battery. Operating the OTTOVAC DIGITAL with a low battery can cause injury and damage to materials. Ensure the battery is fully charged before use.

INSERTING AND CHANGING THE BATTERY 5

1. **Removal:** Press the battery compartment release button  to release the Li-ion battery .
2. **Installation:** Insert the Li-ion battery into the OTTOVAC DIGITAL battery compartment and press until it clicks into place.

Important Battery Warnings:

- **Initial Removal:** The Li-ion battery  will not eject automatically. Press the battery compartment release button  and manually pull the battery out.
- **Low Battery Risk:** Operating the OTTOVAC DIGITAL with low batteries may cause injury and damage to lifted materials.
- **Genuine Batteries Only:** Use only genuine OTTOVAC DIGITAL batteries.
- **Storage Removal:** Remove the batteries when the device is not in use to prevent battery leakage and circuit board corrosion.

EXPLANATION OF VISUAL INDICATORS

Battery Indicator Display:

The battery level is displayed using a series of bars.

Bars Displayed	Battery Level	Voltage Range
Five Green	100%	Above 8.1 V
Four Green	80%	7.7 V to 8.1 V
Three Green	60%	7.2 V to 7.7 V
Two Green	40%	6.6 V to 7.2 V
One Green	20%	5.9 V to 6.6 V
One Red	Very Low Battery	Below 5.9 V

Digital Display Screen:

The digital display screen shows unit values in bar, psi, kg, and lbs.

MAINTENANCE

 **CAUTION:** Under no circumstances should the OTTOVAC DIGITAL be opened for repairs or any other purpose by anyone other than an after-sales service technician authorised by GRABO Ltd. Opening the OTTOVAC DIGITAL will invalidate the manufacturer's warranty.

- Always keep the rubber pad clean and free of oil or grease. Clean the suction pad regularly with methylated spirit or other non-aggressive cleaners.
- To preserve its elasticity, do not expose the rubber pad to direct sunlight for excessive periods.
- If the OTTOVAC DIGITAL does not function properly, the cup face may be dirty, or the suction cup may require servicing. In this case, please contact our customer service department or an authorised dealer for assistance.

REPLACING THE AIR FILTER 7

The filter needs to be replaced when the filter is badly worn or ripped (at the customer's discretion). This is determined by how the OTTOVAC DIGITAL is being used. When lifting clean material, the filter will last longer than when being used on dirty/dusty materials.

1. Turn the OTTOVAC DIGITAL upside down so you can see the suction pad.
2. Use the tip of a screwdriver to remove the filter.
3. Push the replacement filter into the bottom plate and secure it in place.

TROUBLESHOOTING

If you have any questions about operating or troubleshooting the OTTOVAC DIGITAL, visit the FAQ and troubleshooting sections at www.GRABO.com.

DISPOSAL

Do not dispose of electric equipment, batteries, accessories, and packaging in domestic waste in observance of the European Directive 2012/19/EC on waste of electrical and electronic equipment and its implementation in accordance with national law. Electrical equipment that has reached the end of its life shall be collected separately and returned to an environmentally compatible recycling facility. The WEEE symbol 4 will remind you of this when the need for disposal occurs.

DECLARATION OF CONFORMITY

GRABO Ltd hereby declares that this product is in compliance with all applicable directive requirements. The full text of the Declaration of Conformity is available at <https://grabo.com/certificates/>.

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OTTOVAC DIGITAL

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