

FXAH-120-GRABO-GREENLINE



GB | Operating Instructions

Contents

1	EC-Declaration of Conformity / UKCA-Declaration of Conformity	3
2	Safety	4
2.1	Safety symbols	4
2.2	Safety Marking	4
2.3	Personal safety requirements	4
2.4	Protective equipment.....	4
2.5	Accident prevention	5
2.6	Safety procedures	5
2.6.1	Unauthorized alterations	5
2.7	Battery safety	6
3	General	7
3.1	Authorized use	7
3.2	Technical data	9
3.2.1	General	9
3.2.2	Battery charger	9
3.2.3	Cope of delivery	9
4	Operation.....	10
4.1	General.....	10
4.1.1	Lifting loads	10
4.1.2	Releasing loads	10
4.2	Device operation	11
4.2.1	Connecting a carrying strap to the device.....	11
4.2.2	Replacing the rubber foam seal	11
4.2.3	Change filter.....	11
4.2.4	Replace battery	12
4.2.5	Charging the battery	12
4.2.6	Starting up	13
5	Maintenance and care	14
5.1	Suction plate.....	14
5.2	Leak test.....	14
5.3	Annual audit	14
5.4	Hints to the type plate.....	14
5.5	Hints to the renting/leasing of PROBST devices	14
6	Disposal / recycling of devices and machines	14
7	About the developer.....	15
8	Examples of use for FXAH-120-GRABO-GREENLINE	16

We hereby reserve the right to make changes to the information and illustrations in the operating instructions.

1 EC-Declaration of Conformity / UKCA-Declaration of Conformity

Description: FLIEGUAN-AKKU-HANDY FXAH-120-GRABO-GREENLINE
 Type: FXAH-120-GRABO-GREENLINE
 Order number: 58500016

Manufacturer: Probst GmbH
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 info@probst-handling.de
 www.probst-handling.com



Importer: Probst Ltd
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 Stafford Park 17
 Telford Shropshire TF3 3DG, United Kingdom
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The machine described above complies with the relevant requirements of the following EU directives:
The object of the declaration described above is in conformity with the relevant UK-Regulations and UK-Guidelines:

EC-machinery directive 2006/42/EC (Reference: OJ L 157, 09.06.2006)

UK-Regulation: Supply of Machinery (Safety) Regulations 2008 (SI 2008 No. 1597)

2014/30/EU (Electromagnetic compatibility) / (Reference: OJ L 96, 29.03.2014)

UK-Regulation: Electromagnetic Compatibility Regulations 2016 (SI 2016 No. 1091)

DIN EN 1012-1 / DIN EN 1012-2

Compressors and vacuum pumps; Safety requirements part 1 and 2.

UK-Regulation: BS EN 1012-1:2010


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Signature, information to the subscriber:

Erdmannhausen, 12.02.2024.....

 (Eric Wilhelm, Managing Director)

2 Safety

2.1 Safety symbols



Danger to life!

Identifies imminent hazard. If you do not avoid the hazard, death or severe injury will result.



Hazardous situation!

Identifies a potentially hazardous situation. If you do not avoid the situation, injury or damage to property can result.



Prohibition!

Identifies imminent a prohibition. If you do not avoid the prohibition, death and severe injury, or damage to property will result.



Important informations or useful tips for use.

2.2 Safety Marking

REGULATORY SIGN

Symbol	Meaning	Order-No.	Size
	Each operator must have read and understood the operating instructions (and all safety instructions).	29040665	Ø 30 mm
		29040666	Ø 50 mm
		29041049	Ø 80 mm

2.3 Personal safety requirements



Each operator must have read and understood the operating instructions (and all safety instructions). Only qualified, authorized personal is allowed to operate the device and all devices which are connected (lifting device/carrier).



The **manual guiding** is **only** allowed for devices **with handles**. **Otherwise there is a risk of injury to the hands!**

2.4 Protective equipment

The protective equipment must consist, according to the safety regulations of the following parts:

- Protective clothing
- Safety gloves
- Safety shoes

2.5 Accident prevention



- The workplace has to be covered for unauthorized persons, especially children.
- **Caution at thunderstorm - danger of lightning!**
Depending on the intensity of the thunderstorm, stop working with the device if necessary.



- The workplace must be sufficiently illuminated.
- **Be careful with wet, frozen, iced and dirty building materials! There is a danger of the gripping material slipping out. → DANGER OF ACCIDENT!**

2.6 Safety procedures

2.6.1 Unauthorized alterations



All unauthorized alterations of the device and the use of any self-made additional equipment could cause danger and are therefore forbidden!

2.7 Battery safety



- Only the battery pack supplied with the device may be used.
- The battery should be stored in a temperature range of 0°C-45°C (32°F – 113°F).



- When the battery is not in use, keep it away from other metal objects such as paper clips, coins, keys, nails and screws to prevent short circuits.



- The battery must not be opened!



- Protect the battery from heat and avoid direct sunlight and fire!
- If a battery is defective, liquid may leak and come into contact with adjacent components.



- **The device "FLIEGUAN-AKKU-HANDY" and the battery charger are NOT waterproof!!!**



- Check the charger, cable and plug before use.
If damage is visible, do not use the charger!



- **Never open the charger.** It may only be opened and repaired by qualified personnel!



- Keep the battery and charger away from flammable objects during the charging process!

3 General

3.1 Authorized use



- The device is only designed for the use specified in this documentation.
- Every other use is not authorized and is forbidden!
- All relevant safety regulations, corresponding legal regulations, especially regulations of the declaration of conformity, and additional local health and safety regulations must be observed.



Prior to every operation the user **must** ensure that:

- The equipment is suited to the intended operation
- the functioning and the working condition of the equipment is examined
- the load is suitable to be handled.

Any doubts about instructions should be raised with the manufacturer prior to use.

The device „FLIEGUAN-AKKU-HANDY“ is an electric handheld vacuum cleaner, which has a working load limit (WLL) of up to **120 kg** (265 lbs) and can suck on almost any surface. The device is therefore suitable for suctioning and then lifting, moving and laying materials with flat and absorbent surfaces, for example:

Tiles, natural stone, concrete and marble slabs, glass.



The materials specified here are for guidance only. If necessary, pre-tests must be made before suction/lifting to ensure that the transported goods are not damaged!



There is a risk of breakage with thin materials due to the vacuum that builds up during the suction process. Therefore, the material must have sufficient inherent stability!

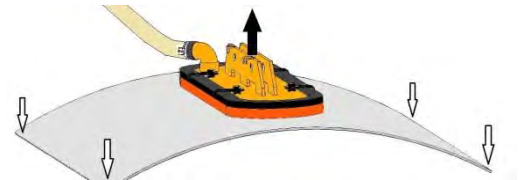
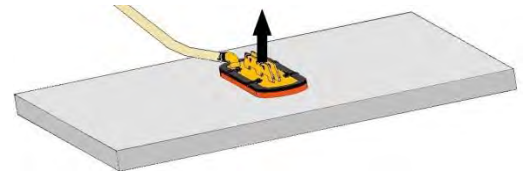


- The maximum working load limit (WLL) is 120 kg (265 lbs), when the unit is held horizontally.
- If the unit is held at an angle or vertically, the maximum working load limit (WLL) is 60 kg (132 lbs).
- The maximum working load limit (WLL) must never be exceeded!
The load could become loose and fall down. Danger of injury!



The device "FLIEGUAN-AKKU-HANDY" is not suitable or intended for climbing or carrying the weight of a person. Using the device for climbing or for any other purpose not intended may result in injury or death.

- The load (stone slab, tile etc.) which is to be sucked and transported, must have sufficient inherent stability, otherwise there is **risk of breakage** when lifting!
- Loads **must not** be bend when lifting - especially take care with thin and large-sized stone slabs!
- Generally, the loads are only to be sucked in the **middle**, otherwise the load hangs diagonally under the device which may cause a breaking of the load - especially when lifting large stone slabs with a small suction plate.



PROHIBITED ACTIVITIES:



Unauthorised modifications to the unit or the use of any additional devices that you may have built yourself endanger life and limb and are therefore strictly **prohibited!**

The **working load limit (WLL)** of the device must not be exceeded.

Any transport with the device that is not in accordance with the regulations is strictly prohibited:

- transport of products, objects and materials not described in these instructions.
- hanging the device on a carrier device using ropes, chains, or the lifting strap or similar.



The device must ONLY be used as a handheld device!

3.2 Technical data

3.2.1 General

Battery voltage	Battery life (fully charged)	Battery capacity	Suction capacity
14,8V Li-Ion	approx. 1,5 hours	2.2 AH	16W
Load capacity (WLL)	Required negative pressure	Net weight (with battery)	Dimensions
120 kg (265 lbs)	- 0,6 bar (- 8,7 psi)	1,5 kg (3,3 lbs)	297 x 181 x 115 mm

3.2.2 Battery charger

Model	Charging voltage	Input voltage
XV-2008290006	DC 16,8 v / 1,4 A	100V-240VAC; 50/60Hz; 0.5 A max

3.2.3 Cope of delivery



- ① Spare filter (1x)
- ② Li-Ion batteries (1x)
- ③ Battery charger (1x) including interchangeable plug (3)
- ④ Spare rubber foam seal (1x)
- ⑤ Silicone cover (1x)

4 Operation

4.1 General



- Do not tear off stuck loads.
- In case of a power failure, immediately lower the load if possible.
- Only suck in and lift suitable loads (check inherent stability and surface density).
- Only place the load on a free, level surface. Otherwise they can slip when released.
- Do not release the load until it is completely and securely supported or standing.
- Keep hands away from the load when releasing.
- Always load the suction surfaces evenly.

4.1.1 Lifting loads

- Position the device directly above the load.
- Place the device on the load. Ensure even load distribution.
- The load is now sucked in.
- When lifting, make sure that only one piece of the material to be lifted is lifted at a time. Carefully remove any other adhering parts with a screwdriver before you lift the part further. Do not loosen with your hands, **danger of crushing!**

4.1.2 Releasing loads

- Lower the load and lay it down safely on a free, flat surface so that the load cannot slip or tip over.
- Press the red release button to release the sucked load.
- Load is now released.

4.2 Device operation

4.2.1 Connecting a carrying strap to the device

- The four metal eyelets around the handle are used to attach the lifting carrying strap.
- Secure one of the buckles (at each end of the strap) in an eyelet provided for this purpose.
- Carrying strap can be placed around the operator's shoulder for load support.



4.2.2 Replacing the rubber foam seal

- Remove the damaged or used rubber foam seal by pulling it out.
- Carefully press the new rubber foam seal into position.



4.2.3 Change filter

- Use the tip of a screwdriver to remove the plastic plug (ring) and filter on the bottom of the device.
- Insert a new filter (or cleaned filter) and push the plastic plug (ring) back in to secure the filter.



4.2.4 Replace battery

- To remove the battery from the unit (FXAH-120-GRABO-GREENLINE), slide the battery clip forward (away from the handle).
- The battery can now be removed from the top of the battery compartment.
- To reinsert a battery into the unit (FXAH-120-GRABO-GREENLINE), insert the battery into the battery compartment and slide the battery clip backward (toward the handle) to secure the battery.



4.2.5 Charging the battery



- **The battery is supplied with the device in a partially charged state and must be fully charged before first use.**
- The charging time is approx. 2 hours. When the battery is fully charged, the operating time of the vacuum pump is approx. 1,5 hours.
- The batteries can be charged at any time without reducing their service life. Interrupting the charging process will not damage the batteries.



Only the supplied battery charger may be used!



- Make sure that the mains voltage corresponds to the data on the charger's type plate.
- The charger may only be used in a dry environment.
The charger is **not waterproof!**
- Keep the battery away from flammable objects during charging!
- To change the interchangeable plugs, observe the respective direction of rotation on the mains plug (OPEN ↻ / LOCK ←).
- Connect the mains plug of the charger to a socket.
- Connect the charger to the battery.
- The battery is charged as soon as it is connected to the charger.
- The charging process is automatically terminated when the battery is fully charged.



4.2.6 Starting up

- Slide the ON-OFF switch (1) to the ON position to turn on the unit (FXAH-120-GRABO-GREENLINE).
- The battery status indicator (2) below the power switch lights up to indicate the battery charge level.
- If the battery status indicator (2) flashes, the battery (6) is not sufficiently charged and should be recharged before using the device:
- The battery (6) should always be fully charged before each use. Wounding the unit with a battery charge level that is too low can result in **serious injury and damage due to sudden dropping of the lifted load!!!**
- The battery can be charged at any time without reducing the battery life.



- If the holding force begins to decrease noticeably even though the battery is fully charged, check the rubber foam seal for wear or damage. Do not attempt to lift a load with the unit until the rubber foam seal has been replaced.
- Position the device (FXAH-120-GRABO-GREENLINE) on the surface to be lifted.
- To switch on the vacuum pump and trigger suction of the load, press the green button (3). Press the device at the handle for a few seconds with light force against the load to be lifted and the suction process begins.
- If the sucked material is to be released again, the red button (4) must be pressed to release it.
- The suction process then immediately starts again. This can be interrupted by pressing the green button (3).



- **The manometer (5) must be constantly in the operator's field of vision, especially with slightly porous materials. If the display shows less than - 0.6 bar (- 8,7 psi), discard material immediately!**



- **The silicone cover (7) must always be used ↓ when operating the device!**

5 Maintenance and care

5.1 Suction plate

- Clean the suction plate from adhering objects, dirt and dust at least once a day. Clean sponge rubber with compressed air and/or water jet. → For this remove the rubber foam seal.
- Replace damaged suction plate (cracks, holes, ripples) immediately.
- Use cold cleaner to clean the device (do not use petroleum ether or corrosive liquids).

5.2 Leak test

- Check the unit for leaks before each use.

5.3 Annual audit

- Check all components, especially the seal. Inspection for cracks, wear, corrosion and functional reliability by an expert.

5.4 Hints to the type plate



- Type, serial-number and production year are very important for the identification of your device. If you need information to spare-parts, warranty or other specific details please refer to this information's.
- The maximum carrying capacity/working load limit (WLL) is the maximum load which can be handled with the device. **Do not** exceed this carrying capacity/working load limit (WLL).
- If you use the device in combination with other lifting equipment (Crane, chain hoist, forklift truck, excavator) consider the deadweight of the device.



Example:

5.5 Hints to the renting/leasing of PROBST devices



With every renting/leasing of PROBST devices the **original operating instructions must be included** unconditionally (in deviation of the user's country's language, the respective translations of the original operating instructions must be delivered additionally)!

6 Disposal / recycling of devices and machines



The product **may only** be taken out of service and prepared for disposal / recycling by qualified personnel. Correspondingly existing **single components** (such as metals, plastics, liquids, batteries/rechargeable batteries etc.) **must** be disposed of/recycled in accordance with the nationally/country-specific applicable laws and **disposal regulations!**



The product must not be disposed of in household waste!

7 About the developer

The “Modern GRABO” was invented by Mechanical Engineer Mr. Nimo Rotem. Although “hand-held electric vacuum units” have been around for some time, a major engineering breakthrough in sealing technologies, pioneered by Nemo, allowed modern GRABO units to pack an incredible amount of lifting capacity in a small and portable package, and do so on a wide variety of rough surfaces and objects.



8 Examples of use for FXAH-120-GRABO-GREENLINE



FXAH-120-GRABO-GREENLINE



FXAH-120-SOLO-Set (48500055)



**FXAH-120-SOLO-Set 4(8500055)
ALX-120-HG (42600206) ↙**



FXAH-120-DUO-SET (48500054)



**FXAH-120-DUO-SET (48500039)
VPH-RS (42710072)**



FXAH-DUO-CB (48500072)



FXAH-RS-CB (48500065)



FXAH-EL-CB (48500071)