



VACUUM PUMP

Battery Operated

OPERATION & SAFETY MANUAL



WARNING

These instructions are for your personal safety. Always ensure that you have read and understood these instructions before using the machinery.
SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

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SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

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To watch practical demonstration videos, take a course, or to download an electronic copy of these Instructions, please visit www.picoteinstitute.com. Please note that videos and courses are not intended as a replacement or alternative to this operating and safety manual, but only as an additional learning tool.

SAFETY INFORMATION

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WARNING

This section contains important safety information. Failure to comply could result in serious injury or death. Always read all safety warnings and instructions. Failure to follow warnings and instructions may result in electric shock, fire and/or serious injury.

Safety Symbols Safety symbols are used throughout this manual to draw attention to potential hazards.



Danger risk of serious injury, follow instructions.

Only use the machine for its intended purpose. Do not put any body parts or foreign materials in contact with the suction hoses.

Personal Protective Equipment (PPE)

Personal Protective Equipment including suitable protective clothing, footwear, plus: Always use ;



Suitable eye protection to protect against chemicals from irritating eyes.



Suitable gloves to help prevent any contact with chemicals. Do not use gloves which can become entangled.



Suitable respirator to prevent any dust or fumes being inhaled or consumed, which could cause occupational asthma or dermatitis.



Always wear suitable ear protection when using the Picote Vacuum Pump to prevent any hearing loss.



1. **Always wear eye and chemical resistant gloves.**

Other personal protective equipment, such as dust mask, gloves and overalls should be worn when necessary. Do not wear loose clothing when using the machine. **Always wear appropriate personal protective equipment.**

2. Always ensure that the machine is fully turned off before inspection, maintenance, or installing any accessories to the machine. Always follow the instructions in the manufacturer's manual.

3. **Before each use** inspect the machine carefully for any potential break or damage. **Change damaged parts immediately.**

4. When in use, it is very important that the machine is stable and on an even surface at all times.

5. **Never leave the machine running unattended.**

6. Do not sit or stand on the case.

7. Only use this machine with the accessories and spare parts offered by the Picote Solutions. Accessories and spare parts should only be used in the manner intended and as described by Picote Solutions.

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⚠ WARNING *This section contains important safety information. Failure to comply could result in serious injury or death*

ENVIRONMENTAL

Operational Ambient Temperature Range:	-20 °C to +60 °C (-4 °F to +140 °F) frost and condensation free
Charge Ambient Temperature Range:	0 °C to +45 °C (32 °F to +113 °F) frost and condensation free
Storage Ambient Temperature Range:	-20 °C to +45 °C (-4 °F to +113 °F) frost and condensation free
Maximum Altitude:	2000m or 6500 ft. Derate above 1000m or 3280ft: 1% / 100m or 328ft
Maximum Humidity:	95% non-condensing

TRANSPORT

The Vacuum Pump should be transported laid down secured with ratchet straps to prevent any sudden movements or accidents caused by hard braking or accident. Always use a suitable cover to protect the unit from the elements.

STORAGE

The Vacuum Pump should be stored indoors to protect it from rain and sunlight and somewhere with a constant ambient temperature. The best way to store the machine is to use the box that the unit was shipped in.

If the machine has been stored in an environment colder than +10 °C or +50 °F, the machine should be stood at room temperature for 24 hours before use.

If the machine has been stored for long periods of time (over 2-3 months), it should be checked and tested according to the maintenance programme before use.

Charge the machine battery to around 80% capacity before storing for long periods. Do not store the machine with low battery.

NEVER leave the unit unattended while it is charging.

DISPOSAL

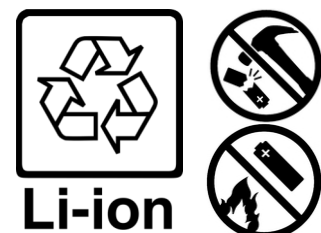
Vacuum pump motor, battery charger and electric wires, can be disposed of in Europe at Waste Electrical and Electronic Equipment (WEEE) collection points.

The upper and bottom plate along with their stands can be recycled in metal waste collection points. The case can be disposed of as plastic waste.

Always follow local waste handling rules and regulations.

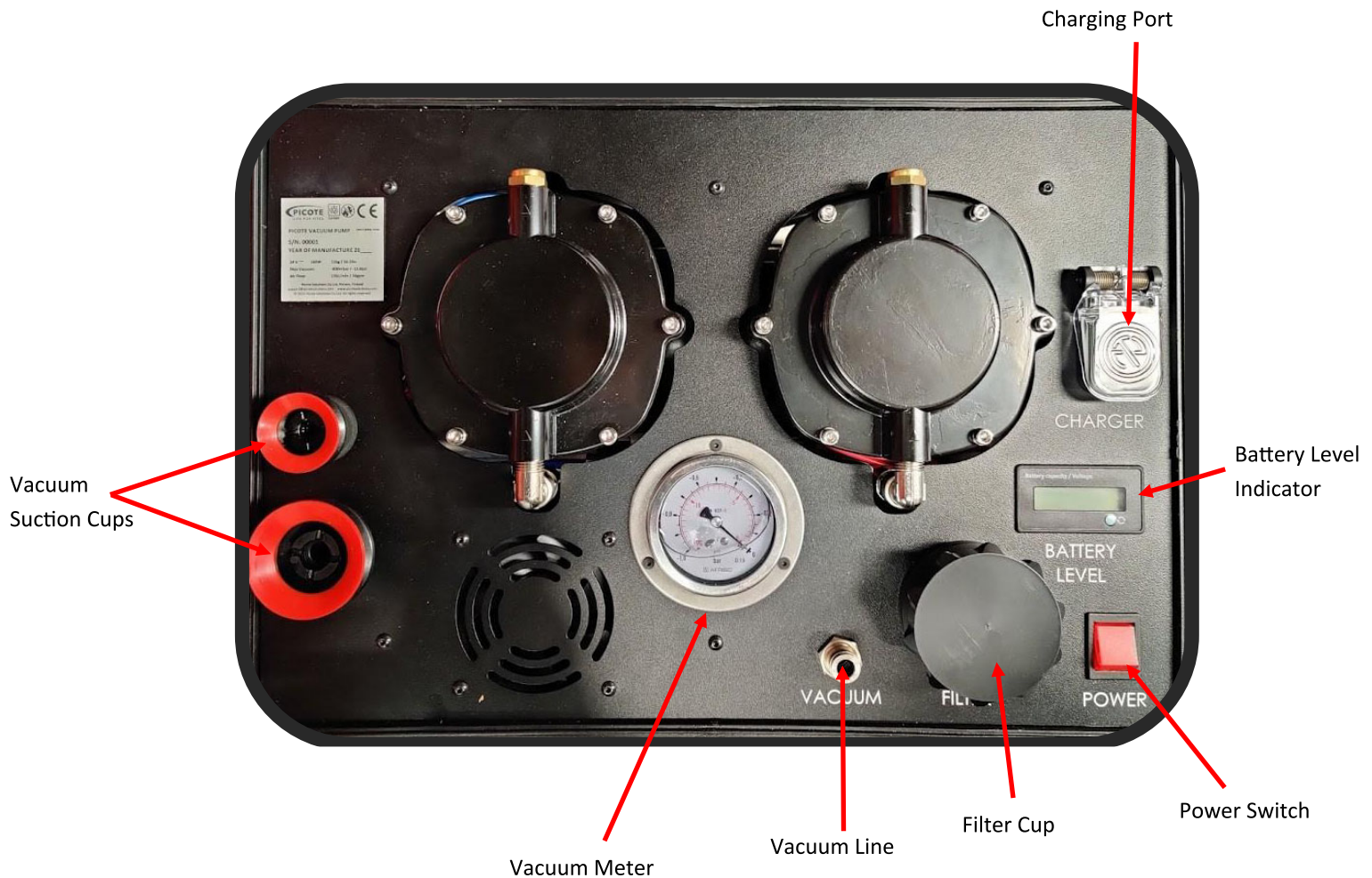
Recycle Li-ion batteries according to local regulations.

Do not dispose of in fire! Do not puncture!



GENERAL INFORMATION

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Operating Instructions

Before operation:

⚠ WARNING Whilst attaching the suction cup to the hose, always make sure that the machine is fully turned off and the battery charger unplugged.

⚠ CAUTION While in operation: Always lay the pump down horizontally on the floor. Do not sit or stand on the case. Always keep the lid open while operating the vacuum pump.

Starting & using the machine:

⚠ WARNING *This section contains important safety information. Failure to comply could result in serious injury*
The machine is supplied with two suction cups. Use the smaller one for DN50/2" & DN70/3" and the large suction cup for DN100/4" and above.

1. To turn on the pump, use the power switch. The machine starts automatically.
2. Charge the machine by connecting the charger to charging inlet. Machine can be charged with power switch in ON or OFF position.

TECHNICAL DATA

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Model	Size (mm/inches)	Air Flow	Max Vacuum	Power Source	Weight (kg/lbs)
Vacuum Pump	360x460x180 14"x18"x7"	136 L/min 36 gpm	-800 mbar -11.6 psi	160W 24VDC Electric Motor	12 kg / 26.5 lbs

CHARGER AND POWER PLUGS

The Machine is supplied with a universal charger with a voltage range of 90V AC ~ 264V AC.

220-230V: EU Type C
UK Type G Plug
AUS Type I Plug

110-125V: US Type A plug.

CE DECLARATION OF CONFORMITY

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We Picote Solutions Oy Ltd as the responsible manufacturer, declare that the following Picote Solutions Oy Ltd liner wetting machine:

Picote Vacuum Pump

Model No: Vacuum Pump 110V-230V

are of series production and

Conform to the following EU Directive:

2006/42/EY

2014/30/EU

2014/35/EU

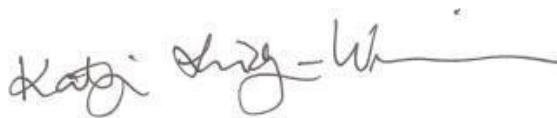
And is manufactured in accordance with the following standards or standardised documents:

EN 62841-1:2014

The technical documentation is kept by our authorised representative in Europe who is:

Picote Solutions Oy Ltd, Pienteollisuustie 24
06450 Porvoo, Finland

5th November 2021



Katja Lindy-Wilkinson

C.E.O.

Picote Solutions Oy Ltd

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MAINTENANCE PROGRAMME & WARRANTY PERIODS

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Maintenance task	Every other		
	Weekly	week	Monthly
Tightness of the rubber feet		I	
Clean the suction cup coarse filter	P		
Clean the particle filter	P		

I: Inspect, fix or replace if needed.

P: Perform, replace if needed.



1. Before performing any maintenance always check that the vacuum pump is fully turned off.
2. Clean the suction cup filters. The filter can be seen inside the suction cups and they prevent big particles going inside the pump. Sand, liner pieces or other objects can damage the pump motor and lower performance. They should be removed as soon as possible (weekly check).
3. Clean the fine particle filter. The filter filters out fine particles. The filter cup also prevents small amounts of resin going inside the pump. (weekly check).

CLEANING THE VACUUM PUMP:

Do not pour or spray water on the machine! Use a damp cloth to clean the surfaces.

TIGHTENING THE RUBBER FEET:

The rubber feet on the bottom of the vacuum pump need to be checked periodically. Tighten them by turning them clockwise. The feet also secure the pump assembly to the casing and can be removed for maintenance if required.

CLEANING THE FILTER CUP:

Open the filter cap and vacuum the cup. Put the cap back on while making sure the rubber seal is at the bottom of the cap. If the rubber seal is not correctly installed, the vacuum pump might leak.

WARRANTY PERIODS

Picote Solutions Oy Ltd grants limited warranty for certain machines, equipment & components. Read more detailed information on page 10 (Picote Warranty Policy and Procedure).

Service Period	3 months	6 months	1 year
A			
B			
C			

- A Machine & spare parts, except:
- B Electric motors and battery
- C Service Centre repair work

ACCESSORIES & SPARE PARTS

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⚠ WARNING

Only use Picote Solutions accessories and attachments with the machine described in this operation manual. The use of other accessories or attachments could present a risk of injury or death. The accessories or attachments should only be used in the proper and intended manner, and always follow Picote Solutions instructions.

VACUUM PUMP

2390000030	Vacuum Pump with EU charger plug
2390000030UK	Vacuum Pump with UK charger plug
2390000030US	Vacuum Pump with US charger plug
2390000030AUS	Vacuum Pump with AUS charger plug

SPARE PARTS

9440000050EU	24V Battery Charger EU
9440000050UK	24V Battery Charger UK
9440000050US	24V Battery Charger US
9440000050AUS	24V Battery Charger AUS
900002427	Suction Cup for DN50/2" & DN70/3"
900002428	Suction Cup for DN100/4" and above

WARRANTY POLICY & PROCEDURE

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Limited Warranty:

Picote warrants to the original End User that the Product purchased by such End User will operate in accordance with, and substantially conform to their published specifications when shipped or otherwise delivered to the End User and for a period of one (1) year, except electric motors and batteries for which the warranty period shall be six (6) months, provided, however, that Picote does not warrant any claim or damage under this Warranty if such claim or damage results from:

1. Consumable parts or normal wear and tear resulting from use of the Products,
2. Product overload or overheated motor,
3. Regular periodic maintenance of Products,
4. Misuse, neglect, or improper installation or maintenance of the Products, or use of Products not for their intended purpose,
5. Products that have been altered, modified, repaired, opened or tampered with by anyone other than Picote or an authorized Picote Service Centre, or unsuitable or unauthorized spare parts, accessories or third party products when using the Products or;
6. the use of the Products not in compliance with their respective Documentation, user manuals, safety and maintenance instructions, and any usage restrictions contained therein, or
7. accident, fire, power failure, power surge, or other hazard.

Otherwise, the Products are sold AS IS. End User is responsible for using the Products within their specifications and instructions as contained in the Documentation.

EXCEPT AS SPECIFIED IN THIS WARRANTY, ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS, AND WARRANTIES INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON INFRINGEMENT, SATISFACTORY QUALITY OR ARISING FROM A COURSE OF DEALING, LAW, USAGE, OR TRADE PRACTICE, ARE HEREBY EXCLUDED TO THE EXTENT ALLOWED BY APPLICABLE LAW. TO THE EXTENT AN IMPLIED WARRANTY CANNOT BE EXCLUDED, SUCH WARRANTY IS LIMITED IN DURATION TO THE WARRANTY PERIOD. BECAUSE SOME STATES OR JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, THE ABOVE LIMITATION MAY NOT APPLY. This disclaimer and exclusion shall apply even if the express warranty set forth above fails of its essential purpose.

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