



Operating & Safety Manual

Picote Heater



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.



We now have resellers in the U.S., Europe & Australasia.

Locate your reseller at picotesolutions.com

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

SAFETY INFORMATION

WARNING

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

Safety Symbols

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



Danger risk of serious injury, follow instructions.



Danger risk of serious injury from rotating parts, follow instructions.

Personal Protective Equipment (PPE)

Always use Personal Protective Equipment when using the Picote Heater, including suitable overalls / protective clothing & footwear and the following:



Always wear suitable eye protection when using the Picote Heater to prevent dust from irritating your eyes.



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



Always wear suitable cut-resistant gloves when using the Picote Heater to prevent any hand injuries. Any open injuries or skin irritations should be covered at all times to avoid contact with sewage, chemicals or dust.



Always wear a suitable respirator when using the Picote Heater to prevent any resin fumes from the curing coating being inhaled or consumed, which can cause occupational asthma or dermatitis as well as eye irritation.

Always remember



Before assembly, use, replacement of parts or maintenance, unplug the Picote Heater. **Failure to comply may lead to serious injury including electric shock or injury from rotating parts!**

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

GENERAL MACHINE SAFETY WARNING



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 REQUIREMENTS



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



1. **Always wear eye protection, ear protection as well as cut-resistant gloves.** Other personal protective equipment, such as dust mask and overalls should be worn when necessary. Dust produced when working can be dangerous to your health, inflammable or explosive. Always wear appropriate protective equipment. Make sure the drain pipe has been opened and ventilated to stop any gases forming in the lateral drain where the work takes place.

2. Always ensure that the machine is fully turned off and unplugged before inspection, maintenance, or installing any accessories to the machine. Always follow the instructions in the Picote Solutions manual.
3. **Before each use** inspect the machine and hose 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. **Do not use the machine outdoors when raining or in otherwise wet conditions.**
6. If the working environment is extremely hot and humid, or badly polluted by conductive dust, use a GFCI-enabled power outlet to ensure the safety of the operator.
7. Make sure that the job location is well ventilated before powering up the machine. The operator must wear a dust mask when using the Picote Heater. Notice that the machine blows the dust and fumes out from the pipes at any opening. Prepare the ventilation properly on these locations before powering up the Picote Heater.
8. Ensure that the ventilation openings are kept clear when working in dusty conditions. If it should become necessary to clear dust, first unplug the machine.
9. 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 the Picote Solutions.
10. Read the Picote Brush Coating manual carefully before using the Picote Heater to speed up the curing process.

ENVIRONMENTAL

Operational Ambient Temperature Range:	-10...50 °C (14...122 °F) frost and condensation free
Storage Ambient Temperature Range:	-20...60 °C (-4...140 °F) frost and condensation free
Maximum Humidity:	95% non-condensing

TRANSPORT

Picote Heater should be transported in car or other vehicle properly secured to prevent any sudden movements caused by hard braking or accident. Using lidded boxes which are fastened and stored on the bottom of a van is recommended.

If using pick-up or trailer to transport Picote machine or tools, cover the products to protect them from raining water and dust.

STORAGE

It is recommended that Picote Heaters are stored indoors protected from rain and sunlight and in constant ambient temperature. Best way to store the machines is in the same box that the machine has been shipped.

If Picote Heater will be stored in colder environment than +10 °C (50 °F), the Heater should be stood at room temperature for 24hours before use.

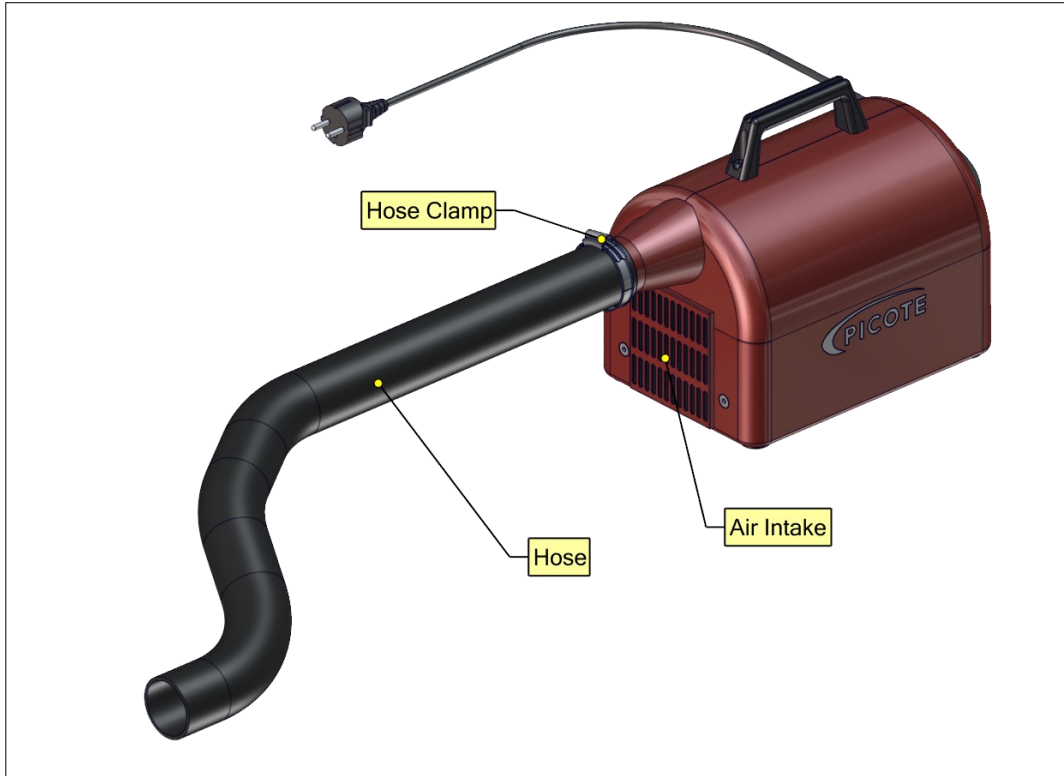
If Picote Heater has been stored for long periods of time (over 2-3 months), it should be checked and tested before use on site.

DISPOSAL

Picote Heater can be disposed in Europe at Waste Electrical and Electronic Equipment (WEEE) collection points.

Always follow the local waste handling rules and regulation.

GENERAL INFORMATION



TECHNICAL DATA

Size (mm/inches)	Hose length (m/ft)	Drain Diameter (mm/inches)	Max. Air Volume (m ³ /min)	Max. Air Capacity (m/sec)	Output (W)	Power Source	Weight (kg/lbs)	IP Rating
287x205x180 11"x8"x7"	5 (16)	DN50-DN300 (2"-12")	2.20	75—100	1600	Electric Motor	5.8 (12.8)	23

INTENDED USE

This machine is intended for the following uses;

1. Drying the pipes after water cleaning.
2. Speeding up the curing process when using the Picote Brush Coating™ system.

Picote Heater

VOLTAGE & POWER SUPPLY

Ensure that the supply voltage is correct. The voltage of the power source must match the value given on the name-plate of the machine within the tolerances of $\pm 10\%$. Machines with a 230V plate can be used in 220V mains and 110V machines in the 120V grid.

The machine has been double sealed according to European standards. The power source has to be grounded.

Power plugs

For safety purposes, use only grounded outlets. If the plug does not fit securely or match the outlet, do not force it — contact an electrician to determine required power supply. Never alter the plug in any way. Use the plug with an extension cord only if it can be fully inserted into the receptacle. Use the Picote Heater with a heavy duty extension cord only.

If a power generator is used as power source, ensure that the power rating is sufficient.

220-230V: EU Schuko 230V 16A. Power cable lead minimum thickness 1.5mm^2 .

110-125V: The Picote Heater is equipped with a 15 amp (125V) NEMA 5-15 plug. Power cable lead minimum thickness 2.5mm^2 / 13 AWG. The must be supplied with sufficient power and pro per current rating. A minimum of 15 amps are needed to operate it safely and efficiently. When used with an extension cord, the cord must be a 3 prong, 15amp (125V). If power generator is used, minimum 3 kW required. Adapters may be necessary for generator connections. Contact your reseller or Picote technical support for more information.

AUSTRALIA/UK: Picote Heaters in these regions have special plugs.

Australia: CEE 16A 230V color blue. Power cable minimum lead thickness 2.5mm^2

UK: UK Plug BSEN 60309 16A 110V color yellow. Power cable lead minimum thickness 2.5mm^2 . Picote Heater requires a transformer to comply with the site power regulations and safe usage in UK.

NOISE LEVEL & EMISSIONS

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

The typical A-weighted noise level determined according to **EN60745**:

Sound pressure level (LpA): 78 dB (A)

WEAR EAR PROTECTION



Emissions during actual use of the machine can differ from declared values depending on the ways that the machine is used. Safety measures to protect the operator should be determined by actual conditions, taking into account all aspects of the operating cycle.

Due to continuing product development, the specifications herein are subject to change without notice.

CE DECLARATION OF CONFORMITY

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

Picote Heater
is of series production and

Conforms to the following EU Directive:

2006/42/EC

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

EN60745

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

Picote Solutions Oy Ltd, Pienteollisuustie 24
06450 Porvoo, Finland

1st February 2018

A handwritten signature in black ink, appearing to read 'Katja Lindy-Wilkinson', written over a horizontal line.

Katja Lindy-Wilkinson
C.E.O.

Picote Solutions Oy Ltd
Pienteollisuustie 24, 06450 Porvoo, Finland

OPERATING INSTRUCTIONS

Before operation:

- ⚠ WARNING** • Before powering up, always make sure that all the openings are properly ventilated.
- Ensure enough space for Picote Heater. Do not cover the air inlet.
- ⚠ CAUTION** • The dust and fumes from the pipes will be blown out from any opening in pipe system. Prepare all these locations before powering up the Picote Heater.

While in operation:

- Always lay the machine down horizontally on the floor.

STARTING & USING THE MACHINE

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

1. Ventilate all the openings in pipe system properly before powering up the Picote Heater. Dust, fumes and gases can be dangerous to your health, inflammable or explosive.
2. Place the hose inside the pipe. Secure the hose with hose clamps or nozzle piece.
3. Inspect that the curing process has already begun before powering up the Picote Heater. **The resin needs to be dust dry before the Picote Heater can be used which equals to 20 minutes curing.** If the Picote Heater is powered before the curing has started, waves will be created to the coating layer.

Tip! You can use outlet timer to make Picote Heater to begin the blowing process after 20 minutes and to blow up for pre-calculated time. In this way you can move on coating the next pipe line faster.

4. Plug the Picote Heater to the power source.
5. Picote Heater speeds up the curing time of the coating resin 1h – 1.5h depending on the coating resin used.
5. **Let the machine blow up as long as needed. Normally at least 2h 30 min is normally needed for the coating layer to cure before a new layer is going to be added.** The coating material needs to be touch dry before adding a new coating layer.
6. If the **next coat is applied after 24h, the original coat needs to be abraded with a Smart Cutter™** first to make sure that the layers bond well.

Note: **Picote Heater air outlet temperature is limited to +55 °C (131 F).** The machine has automatic thermal cut-out in both motor and heating element.

Please check Picote Solutions Mini & Maxi Coating Pump manuals and visit www.picotebrushcoating.com for more detailed information.

Guiding the Air into The Pipe

Use Hose Clamps to attach the hose to the Picote Heater and guide the air into the pipe. Secure the hose to the pipe with hose clamps, tape or nozzle piece.



MAINTENANCE

- ⚠ WARNING** 1. Before performing any maintenance always check that the machine is fully turned off and unplugged.
2. Carefully inspect the hose to ensure that there are no signs of wear and tear. Replace when required.
 3. For safety and efficiency, always keep the machine and its air inlet clean.

In case there is problem that you cannot solve using this manual, please consult your reseller or the Picote Solutions Oy Ltd.

ACCESSORIES & SPARE PARTS

⚠ WARNING You must use only the Picote Solutions accessories and attachments with the machine described in this operations 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.

1350000024	Picote Heater 230v
1350000024US	Picote Heater 110v US
1350000024UK	Picote Heater 110v UK
9990001099	Heater Spare Hose 5m

TRAINING

For information about product training and support contact Picote Solutions or your authorized Picote reseller.

WARRANTY POLICY AND PROCEDURE

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 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.

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