



# PEGASO

## Professional Steam & Vacuum Cleaner



## INSTRUCTIONS FOR USE AND MAINTENANCE



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## **INTRODUCTION**

**Before performing any operation on the machine, carefully read this manual.**

It contains all the information necessary for accident-free operation, ensuring the safety of the operator and all persons working nearby, and respect for the environment. Correct use of this manual enables the user to keep the machine in good conditions, reduces breakdowns and consequently repair costs and machine down time.

Keep the manual in a suitable place where the operator whenever required can easily access it.

## **DESCRIPTION**

The product permits steam-cleaning of machinery, refrigerators, ovens, work tables, floors, windows etc. reducing the use of detergents, disinfectants and solvents, and eliminating serious problems of disposal, bad smells and toxic residues.

This machine is a steam generator designed for the following functions:

- Cleaning with steam
- Cleaning with steam + hot water / injection of detergent
- Dust vacuum cleaning
- Liquid vacuum cleaning

## **WARNINGS**

The manufacturer declines all liability for:

- **Incorrect use of the machine or use for purposes other than those for which it has been designed;**
- **All modifications made without its authorisation;**
- **Replacement of original parts with parts produced by other manufacturers;**
- **Use by non-trained personnel.**

**For a correct use of the machine, do not use demineralized or distilled water with a value lower than 96 TDS or 200 µs/cm.**

- Jets of water at high pressure can be dangerous if not used correctly. The water jet must never be directed against persons.
- Do not direct the jet against yourself or others to clean clothing or footwear.
- Do not use the equipment near persons if the latter are not wearing protective clothing.
- Be careful not to touch the delivery nozzles as they can reach high temperatures during use.
- Do not drag the machine by pulling the hose: this can damage the hose.
- Do not suck up flammable substances (petrol, solvents, paints etc.), welding fumes or ignited material: danger of explosion or fire!
- In the event of breakage of the power supply cable, have it immediately replaced by the manufacturer or qualified personnel.
- If using an extension, the plug and socket must be watertight.
- CAUTION: inadequate extensions can be dangerous.
- In the event of leakage of foam or liquid, switch off immediately.
- The equipment must not be used by children or untrained personnel.
- To guarantee safety of the equipment, only original spare parts must be used supplied by the manufacturer or approved by it.
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## **TECHNICAL SPECIFICATIONS**

Continuous refill stainless steel boiler capacity	3 lt
Capacity cold water tank	5 lt
Heating time	9 min.
Operating pressure	900 kPa (9 bar)
Maximum temperature	175° C

Maximum power	2200 / 3500 W
Voltage	230 V
Weight	37 Kg

**Machine safety devices:**

- Bleed valve for overpressure on each boiler;
- Pressure switch for operating pressure control;
- Manual reset safety thermostat for boiler temperature control;
- 12 V low voltage handgrip controls.

**INSTRUCTIONS FOR USE**

**CAUTION**

The machine is supplied with a power supply cable suitable for its absorption. Check that the electrical system complies with the current regulations. The machine power supply should include a differential switch, with differential current not exceeding 30 mA.

**Control panel:**

1. Main switch
2. Boiler on switch
3. Boiler temperature indicator
4. Steam / suction socket
5. Boiler pressure gauge
6. Electrical power supply pilot light
7. No water warning light
8. Boiler water filling pilot light
9. Work enable pilot light
10. Water tank plug
11. Steam adjustment
12. Detergent tank plug
13. T1 clock button
14. T2 parameter button



**MACHINE START :**

**Steam only function :**

- Open the plug **10**, fill the tank with water and close the plug.
- Operate the main switch **1** to switch the machine on.
- The light **6** comes on.

- Push button **2** and the pump starts filling the boiler, light **8** goes on. Filling is automatically performed when required by the water level.
- When the pump stops, light **8** goes out and the heating phase begins, lasting approx. **9** minutes. The light **9** is blinking.
- When pilot light **9** remains on, the machine is ready for use.
- Insert the hose plug into the steam socket **14**, ensuring that it is securely fitted.
- Press the steam button **16.1** on the handgrip and direct the steam jet towards the area to be cleaned.

#### **CAUTION**

**Before beginning steam-cleaning operations, drain the condensation left inside the steam hose into a bucket or other suitable place.**

#### **Hot water / Detergent injection function :**

To optimise the cleaning action of the steam, water or even detergent can be mixed with the steam jet:

- Open the cap **12** and fill this tank with 5l of detergent (or of water).
- Start the machine as above.
- Operate the steam button on the handgrip and simultaneously keep the water/detergent button pressed.

#### **CAUTION**

**This machine has been designed for use with non-foaming and non-corrosive detergent. Use of foaming and/or corrosive detergent could damage the machine! You are advised to use only the detergent specified by the manufacturer.**

#### **Dust – liquid vacuum cleaning function :**

- Connect the steam + suction hose to the steam socket **14** ensuring that it is securely fitted.
- Turn on the main switch located behind the vacuum cleaner.
- Start the steam machine as indicated above.
- To use the steam, press lever **16.1** below the handgrip **16.3**
- For suction, press the white button on the handgrip. Press once to switch on, and a second time to switch off.
- To add hot water, keep the button **16.2** with water tap on the handgrip pressed.

#### **CAUTION**

**This machine is not suitable for collecting dangerous dust!**

#### **Water refill :**

When the water in the tank finishes, the machine emits an acoustic signal and the no water warning light **7** comes on. After some minutes the steam outlet is blocked.

Perform the following operations:

- Turn off the main switch **1**.
- Open the plug **10** and fill the tank with water (about 5 Lt).
- To start the machine, operate switches **1** and **2** as indicated in "Machine start".
- As the boiler is already under pressure, pilot light **9** comes on after a few seconds and the machine is ready to resume work.

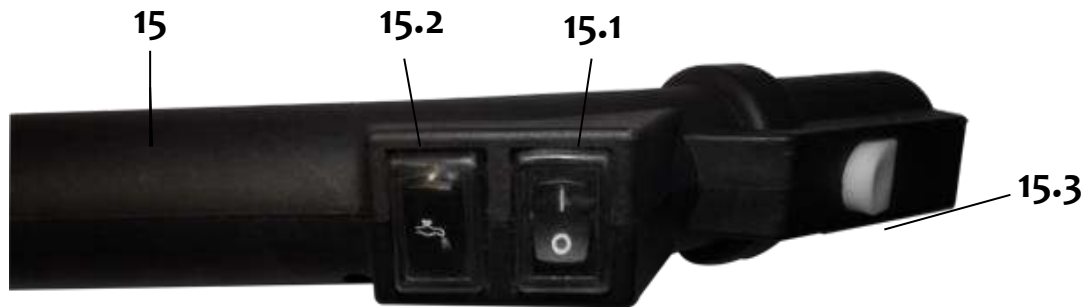
**HOSE-GRIP STEAM ONLY: \***

15 HOSE-GRIP STEAM ONLY

15.1 STEAM ON/OFF SWITCH

15.2 DETERGENT BUTTON

15.3 ACCESSORY LOCK LEVER



**Detergent/Hot water function:**

To speed up the cleaning action of the steam in some situations, water or detergent can be injected into the steam:



**WARNING!**

Never fill detergent into the water tank, this can seriously damage your machine and will invalidate your warranty!

- Remove the cap of the detergent canister and fill the tank (yellow label) with 5 liters of water or one of our specified detergents and then replace the cap. **ATTENTION!** Follow the instructions on the detergent canister/bottle to correctly dose detergent and water.
- Start the machine as above and connect the hose to the hose connection socket (**15**).
- Prime the pump: (only on first use of the machine or after running empty of detergent) do not enable switch (**15.1**) but press **only** the detergent button (**15.2**) on the pistol for 10 seconds while checking to make sure that water fills the transparent hose. This means that the pump is pulling water in from the canister and pushing out the air trapped in the hose.
- Enable the steam ON/OFF switch (**15.1**) on the hose-grip and simultaneously keep the water/detergent button pressed for the time required. *If using detergent, keep the button pressed for a short interval, then clean and press again when more detergent is needed. Use as little as detergent possible and respect the environment!*

### **ATTENTION!**

This machine is approved for use only with detergents validated and sold by the manufacturer. Use of detergents other than ours will invalidate the warranty! The use of foaming and/or corrosive detergents or other chemical compounds could damage the machine!

\* See Standard Accessory Set further down in this manual.

### **HOSE-GRIP STEAM & VACUUM:**

16	HOSE-GRIP STEAM & VACUUM	16.1	STEAM TRIGGER
16.2	DETERGENT BUTTON	16.3	VACUUM ON/OFF BUTTON



### **Wet & Dry vacuum cleaning function:**



#### **WARNING!**

Do not use the vacuum for general purpose vacuum cleaning! Use only in combination with steam cleaning. Do not vacuum up dangerous substances!

- Connect the steam & vacuum hose to the hose connection socket (15). Make sure that the short vacuum power cable is plugged into the 230V~ socket mounted on the back of the machine. Also make sure that the short vacuum hose is firmly inserted into the vacuum socket situated underneath the 230V~ socket at the back of the machine.
- Attach the required accessories.
- Turn on the ON/OFF switch located on the vacuum cleaner head. This enables the vacuum, but the vacuum is controlled electronically and can now be turned ON or OFF through a dedicated micro-switch on the hose-grip of the steam & vacuum hose!
- Start the steam machine as explained above.
- Press the trigger (16.1) on the hose grip (16) to enable steam output.
- For suction, press and release micro-switch (16.2) on the hose-grip. Press once to switch on, and a second time to switch off.



- The detergent/hot water function is enabled by persistently pressing micro-switch **(16.3)**, release to stop. *Follow the instructions above as for steam only!*
- Clean the vacuum tank after every use. Open the 2 lateral hinges of the vacuum tank and lift the head off. Dispose of the contaminants inside and rinse the tank until clean. Inspect and if necessary wash the filter element that is attached to the vacuum head. This filter must be washed regularly to maintain a high level of vacuum efficiency.
- Put the tank back on, making sure it is firmly attached!

**WARNING! Do not use the vacuum without its filter element, this will damage the vacuum and cause dirt and contaminants to come back out of the exhaust!**

**Water-tank refill:**

When the water-tank reaches its minimum level the machine emits an acoustic signal and the light **7** lights up. Steam output is now interrupted until the tank and boiler are refilled. **ATTENTION!** *The machine must be turned OFF while being refilled, this safeguards the operator and resets the pump and steam output stop into the start up mode!*

Perform the following operations:

- Turn the main switch **1** OFF
- Open the black cap **10** and fill the water-tank (blue label) with clean tap water.
- Restart the machine with switch **1** and then **2** as explained before.
- Since the boiler is in pressure, the green light will flash for a short interval until the machine reaches its maximum pressure and is ready to resume work.

**STANDARD ACCESSORY SET**

The accessories are designed to fit tightly and seal well against the loss of steam. The parts insert only in one precise manner into each other and are separated by pressing down the white accessory lock lever **(15.3)** and then pulling. Should the parts be difficult to separate after prolonged use, please clean them and put some silicone grease on the O-rings. Control all O-rings regularly and exchange if damaged. Always keep the O-rings in perfect condition and exchange these if damaged! Use the grey bucket to keep your cloths and accessories.

For instructions on how to best use the single accessories please contact your dealer or distributor!

**\*This machine is available with only the steam & vacuum set as standard or may also include the steam only set. Contact your dealer or distributor for more information!**

## ACCESSORIES

### STANDARD STEAM & VACUUM ACCESSORY SET

ITEM CODE, QUANTITY & DESCRIPTION	
<b>KITo800/MOD</b> 1 STEAM/VAC HOSE 4 M	
<b>KITo801</b> 2 EXTENSION TUBES L.500	
<b>KITo802</b> 1 EXTENSION TUBE L.250	
<b>KITo804</b> 1 FLOOR BRUSH L.300	
<b>KITo822</b> 1 TEFLON INSERT FLOOR BRUSH L.300	
<b>KITo824</b> 1 RUBBER INSERT FLOOR BRUSH L.300	
<b>KITo803</b> 1 FLOOR BRUSH L.500	

ITEM CODE, QUANTITY & DESCRIPTION	
<b>KITo823</b> 1 TEFLON INSERT FLOOR BRUSH L.500	
<b>KITo825</b> 1 RUBBER INSERT FLOOR BRUSH L.500	
<b>KITo805</b> 1 SQUEEGEE L.300	
<b>KITo806</b> 1 UPHOLSTERY TOOL L.100	
<b>KITo807</b> 1 UPHOLSTERY TOOL L.250	
<b>KITo808</b> 1 STEAM & VAC NOZZLE/LANCE	
<b>KITo808/DA/2</b> 1 STEAM-VAC LANCE X DAVY 2MM	
<b>KITo810</b> 1 ANGLED TUBE 45°	
<b>KITo813</b> 1 ADAPTER FOR KITo818 + KITo817	

ITEM CODE, QUANTITY & DESCRIPTION	
<b>KITo817</b> 1 SMALL BRUSH HALFMOON X KITo8o8	
<b>KITo818</b> 1 ROUND VAC BRUSH X KITo817	
<b>KITo819</b> 1 TRIANGULAR VAC BRUSH X KITo817	
<b>KITo315</b> 1 STRAIGHT VAC NOZZLE KITo8o8/DA	
<b>KITo317</b> 1 TRIANGULAR VAC NOZZLE KITo8o8/DA	
<b>KITo814/I</b> 1 BIG ROUND BRUSH SST BRISTLES	
<b>KITo814/N</b> 1 BIG ROUND BRUSH NYLON BRISTLES	
<b>KITo814/O</b> 1 BIG ROUND BRUSH BRASS BRISTLES	
<b>KITo815/I</b> 1 MEDIUM ROUND BRUSH SST BRISTLES	

ITEM CODE, QUANTITY & DESCRIPTION	
<b>KITo815/N</b> 1 MEDIUM ROUND BRUSH NYLON BRISTLES	
<b>KITo815/O</b> 1 MEDIUM ROUND BRUSH BRASS BRISTLES	
<b>KITo816/I</b> 3 SMALL ROUND BRISH SST BRISTLES	
<b>KITo816/N</b> 5 SMALL ROUND BRISH NYLON BRISTLES	
<b>KITo816/O</b> 3 SMALL ROUND BRISH BRASS BRISTLES	

**STEAM ONLY ACCESSORY SET**

ITEM CODE, QUANTITY & DESCRIPTION	
<b>KITo700</b> 1 STEAM HOSE 4M	
<b>KITo701</b> 2 EXTENSION TUBES L.500	
<b>KITo702</b> 1 EXTENSION TUBE L.250	

ITEM CODE, QUANTITY & DESCRIPTION	
<b>KIT 0703/2</b> 1 STEAM LANCE L.100 2MM	
<b>KIT0704/2</b> 1 STEAM LANCE L.250 2MM	
<b>KIT0705</b> 1 STEAM ADAPTER ANGLED 45°	
<b>KIT0706</b> 1 JOINT FOR BRUSHES	
<b>KIT0707</b> 1 FLOOR BRUSH WITH BRISTLES	
<b>KIT0709</b> 1 TRIANGULAR BRUSH WITH BRISTLES	
<b>KIT0711</b> 1 STEAM SQUEEGEE L.300	
<b>KIT0712</b> 1 SCRAPER	

## **MAINTENANCE**

### **Cleaning the boiler :**

- Switch the machine on cold, at pressure “0” and let the pressure reach 2 bars, approx. 100° C temperature in the boiler.

- Turn off the main switch 1 and unplug the machine from the socket on the electrical panel.
- Shake the machine well as if rinsing the boiler.
- Lift the machine and place a container below to collect the dirty water from the boiler.
- With a n° 22 spanner, partially unscrew the plug below the machine to let the pressure out of the boiler.
- When all the pressure has been discharged, fully remove the plug.
- Empty all the water in the boiler, shaking the machine gently to help empty the water.
- Re-tighten the plug securely but without over tightening.

**N.B. If the water collected is very dirty, you are advised to repeat the operation.**

To restart the machine, follow the operations in the paragraph “Machine start”.

### CAUTION

**Check for any water leaks from the plug below the machine and tighten the plug if necessary.**

### Troubleshooting :

Steam leaks from accessories due to wear or breakage of gaskets -	Replace the gaskets on the connections making sure you do not cut or mark the gasket and that it is securely fitted in its housing.
Hose plug hard to insert in the machine socket -	Do not force it in; lubricate the steam socket connection on the machine with silicone grease.
Machine heating time too long -	Remove the scale from the boiler as described.
The pressure drops rapidly during operation -	Remove the scale from the boiler as described.
The pressure rises rapidly and the pump continues to fill the boiler with water -	The scale must be removed from the level probe. With the machine cold, pressure “o”, unscrew the probe above the boiler and clean any scale without using chemicals. Retighten the probe and connect the wire above.

### WARRANTY

DOMAN S.r.l. guarantees the product against all manufacturing or material defects for 12 months from the date of sale.

Warranty conditions:

- The warranty does not cover failures resulting from normal machine wear.
- The warranty lapses in the case of failures, problems or accidents caused by non-observation of these instructions, poor maintenance or inappropriate use of the machine.

- The warranty comprises replacement or repair free of charge of faulty parts, including labour. Recognition of the warranty does not entail any other recognition of damage or compensation for any reason.
- The warranty applies to goods ex our factory or ex branches.

### **DECLARATION OF EC CONFORMITY**

The undersigned manufacturer **DOMAN SRL - VIA MONTE TOMBA, 8 – 36060 ROMANO D’EZZELINO – ITALY** declares that the product below

Description :                      Steam cleaning machine  
 Models :                              PEGASO

**is in accordance with the following Directives:**

- **2004/108 EC Directive (EMC Directive) and subsequent amendments**
- **2006/95 EC Directive (Low Voltage Directive) and subsequent amendments**
- **2006/42 EC Directive (Machinery)**

and that all the following standards have been applied:

- **EN 55014-1 (2009-08)**
- **EN 55014-2 (2008)**
- **EN 61000-3-2 (2006)**
- **EN 61000-3-3 (2008-09)**
- **EN 62233 (2008-04)**
- **EN 60335-2-79 (2009-09)**

The manufacturer also declares that the technical construction file is kept by **DOMAN SRL – VIA MONTE TOMBA, 8 – 36060 ROMANO D’EZZELINO – ITALY**

Last two figures of the year of the CE marking                          17    

**Disposal and recycling :**

The materials making up the machine must not be left lying around. For disposal, follow the legal regulations in force.

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QM DIN EN ISO 9001:2008

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