

# ENERGIC Plus<sup>®</sup>

## USER MANUAL



### AQ-STEAM

REF 115TA4701

**IN CHARGE OF YOUR BATTERIES**

[www.energicplus.com](http://www.energicplus.com)

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## 1. Warnings



RAEE - ROHS  
European Directives 2002/95/CE - 2002/96/CE - 2003/108/CE

- The above symbol indicates that the appliance is subject to separate waste collection and cannot be disposed of as a municipal waste.
- This appliance, subject to separate waste collection, can be returned (free of charge) to the retailer when purchasing a new appliance. For information on the alternative waste disposal, you can refer to your retailer or to any retailers of electrical equipment or the competent public service.
- The machine **REF 115TA4701** is designed and manufactured according to the highest reliability and safety techniques; however the machine is not meant to be used by minors.
- Never leave the machine unattended while it is working.
- Use only drinkable tap water; do not use distilled water.
- Do not introduce other liquids and/or other objects in the tank.
- While using the accessories, never touch the metal ending parts as this may lead to burns.
- Do not spray any water on the machine.
- Avoid shaking the machine while it is working (a misreading of the water level in the tank and in the boiler could happen).
- Before opening the boiler's water drain cap, make sure there is no pressure and **REF 115TA4701** has not been used for at least 5 hours (look at the section "Extraordinary Maintenance").
- Never aim the steam jet towards electrical or electronic appliances, people or animals.
- The refilling pump periodically switches on at regular intervals, producing an internal buzzing sound, which is perfectly normal.
- The machine is fitted with a series of safety devices that make **REF 115TA4701** reliable and safe. In case the safety switch activates, steam will come out of the bottom of the machine and a loud high-pitched hissing sound will be heard for a couple of seconds: all this happens within the maximum safety limits and should not worry the customer.
- Do not pull the machine by the flexible tube but use its handle.
- Plug the machine into power outlets with a properly grounded electrical system.
- Do not unplug neither the accessories nor the tubing while the machine is generating steam to avoid getting burnt.
- In the injection model DO NOT pour any liquid other than detergents or disinfectant in the external tank. Also make sure the detergents or disinfectants do not become toxic when coming into contact with steam or reaching over 90°C.

## 2. Introduction

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**REF 115TA4701** is a “continuous recharge” revolutionary steam cleaner designed, produced and marketed by BATTERY SUPPLIES.

**REF 115TA4701**, with all its accessories, satisfies the most demanding needs in terms of environmental cleanliness and hygiene.

**REF 115TA4701** can be used in industrial environments for the cleansing and sterilization of surfaces and objects.

IT IS RECOMMENDED TO CAREFULLY READ THE FOLLOWING MANUAL BEFORE USING THE MACHINE.

Please read this manual carefully: we are sure it will be of help. Your Agent of choice, the company and the Service Centre remain at your complete disposal for any further clarifications.

## 3. Technical features

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- MODEL: **REF 115TA4701** is available in various versions. For specific details look at the specifications written on the machine's plate.
- MAXIMUM PRESSURE: from 6 to 8 bar
- POWER SUPPLY: look at the specifications written on the machine's plate. (\*)
- INSTALLED CAPACITY: from 3,4 kW single-phase to 6 kW three-phase. (\*)
- BASIC CONSTRUCTION MATERIAL: stainless steel AISI 304 (boiler, heating elements, body).
- AUTONOMY: unlimited
- STEAM TEMPERATURE (in the boiler): from 150 °C to 170 °C approx (\*)

(\*) Depending on the model.

## 4. Certifications

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**REF 115TA4701** is a -certified product.

THANK YOU IN ADVANCE TO ALL THOSE WHO CONTRIBUTE TO THE MACHINE'S IMPROVEMENT BY SENDING SUGGESTIONS AND OPINIONS TO OUR TECHNICAL SERVICE.

## 5. Machine technical description

The machine consists of a steam generator and of flexible tubing connecting the generator to the accessories. The steam generator consists of: a stainless steel vaporizer boiler with heating elements, an external water tank, an electrical water pump that feeds the boiler and a set of auxiliary equipment (electronic card, pressure switch, thermostat, electric valves, safety switch, liquid level regulation systems, etc.) that monitors the automatic, continuous and safe operation.

All its components (excluding the water tank under ambient pressure) are contained in a stainless steel case. The flexible tube is made of a rubber tube coated with an adequate material protected by an external sheath with steel spiral. Connections are located at the tube's endings to connect the steam generator to the accessories (fig 1).

## 6. Accessories list (this varies according to the machine chosen)

POS	DESCRIPTION	REF
1	Flexible hose 4MT 120°	<b>163TA7913</b>
2	Steam extension pipe (with adapter)	<b>163TA7914</b>
3	Brush "lux 180" black	<b>163TA7915</b>
4	Brush, triangular – black	<b>163TA7916</b>
5	Brush, for fabric, "lux" (pol. PBT black 0.60)	<b>163TA7917</b>
6	Window wiper – sprayer	<b>163TA7918</b>
7	Steam nozzle	<b>163TA7919</b>
8	Steam nozzle, bent	<b>163TA7920</b>
9	Steam nozzle, straight	<b>163TA7921</b>
10	Brush, polyethylene, PBT black 0.60	<b>163TA7922</b>
10B	Brush, brass 0.20 H 12 mm	<b>163TA7923</b>



fig 1

## 7. Lights and controls



fig 2

The lights, as well as the controls, are located on the machine's front panel: they give the following information:

### Lights

- **Orange light:** indicates that the machine is running in economy mode (it works only on single-phase models with intake).
- **Yellow light:** water refilling, indicates the absence of water in the external tank and interrupts the generation of steam to avoid damage to the electrical resistances.
- **Green light:** OK, indicates that maximum working pressure has been reached. While using the machine this lights turns on and off according to the steam pressure reached in the boiler.

- **Red light:** water replace: this has many functions; it indicates the need of a water replacement in the boiler (look at following information). If water has been changed in the boiler, but the light is still on, this means a machine malfunction or a temporary malfunction of the refilling mechanism. When the red light is on, all the machine functions are deactivated.
- **Manometer:** indicates the steam pressure in the boiler.

### Controls

- On/Off switch: turns the machine on or off.
- Pump injection button: activation and deactivation of the detergent injection pump (only on models with injection pump).
- Knob: steam quantity regulation.
- Economizer switch: allows shifting from the "Economy" to the normal function and vice versa (only in single-phase models with intake)

### Economy

The "Economy" function allows the heating elements to be deactivated, thus reducing the power absorbed by around 25%. When the suction device is connected to the machine and is activated, the electronic card automatically shifts the working condition from "normal to "economy".

## 8. Using REF 115TA4701

### Positioning

Place the machine on a horizontal surface to avoid misreading level values from the control panel.

### Connection to a power supply

Connect **REF 115TA4701** to a grounded power outlet. Make sure the power outlet can support the machine power (look at the technical features on the machine).

### Starting the machine

- Fill the external tank (approx 5 litres) with potable tap water and carefully reposition the cap with the probes inside the tank (see "adding water to the tank").
- Turn on **REF 115TA4701** by pushing the ON/OFF switch (fig 2)
  - switch in position "O": the machine is turned off.
  - switch in position "I": the machine is turned on

After a couple of minutes (4–6 min), the heating process ends and the machine is ready to use, the green light "OK" turns on.

**NOTE:** if the probes on the cap are not immersed in the

water, the machine will not work; also, when turning on **REF 115TA4701** without water in the tank, the pressurizing phase will not start.

### Connecting the sheath and the steam generating pistol

The accessories (fig 1) are connected by turning the locking ring clockwise. After the accessory is connected, turn the locking ring counterclockwise. These operations may differ slightly according to the accessories of the machine. The flexible sheath is connected to the steam outlet on the machine by connecting the proper tube end to the outlet at the machine's base. (fig 3)



fig 3



fig 4

## Steam generation

The pistol grip is attached to the sheath's end (fig 4); a switch to control the steam output is located on the pistol: by pressing the switch, steam comes out; by releasing the switch, the output is interrupted.

When the "OK" green light turns on, **REF 115TA4701** is ready to generate steam. Nevertheless, at the beginning, it is advisable to release the air in the pipes by pressing the switch on the pistol for a couple of seconds; when the "OK" green light turns on again, the machine is ready for an optimal usage. It is advisable to never use the sheath without accessories to avoid the formation of condensed water.

**NOTE:** the steam generation is preceded by a couple of water squirts: this is caused by the normal formation of condensate in still cold tubes: therefore, it is recommended to aim the steam output at a cloth initially, to avoid wetting surfaces that should not be wetted.

## Regulating the steam output

To fully use **REF 115TA4701**'s detergent power, it is advisable to regulate the steam output according to the accessory used and to the surface to clean; this is achieved by rotating the knob on the control panel clockwise (fig 2).

## Refilling the external water tank

Once the water in the tank is used up, **REF 115TA4701** stops the steam distribution, indicating the lack of water and the yellow light turns on: a water refill is necessary. Thus, remove the tank cap, paying attention to the probes (fig 5), fill the tank with water and reposition the cap.

After approximately 4 seconds the machine will be ready to start working.



fig 5

**NOTE:** to perform this operation, avoid removing the cap by pulling the flexible tube. Do not place the cap with the probes on metallic surfaces to avoid the electronic cards misreading the presence of water.

## 9. Ordinary maintenance

### Water replacement in the boiler

#### Why replace water

After about 100 litres of water have been used, it is advisable to replace the water in the boiler. This operation is necessary to eliminate the impurities left into the boiler (limestone and other solid suspensions in the feeding water).

Water replacement frequency depends on the impurities contained in the water and on the quantity of evaporated water.

#### How to understand when it is time to replace the water

If the "WATER REPLACE" red light turns on, this means that the water in the boiler is saturated with limestone, therefore a water replacement is needed. It is strongly recommended to replace the water as indicated above, before the red light turns on, since the machine has entered an emergency phase.

#### How to change water in the boiler

1. Ensure that the machine is disconnected from the power supply.

2. Ensure that the boiler is not pressurized and that **REF 115TA4701** has not been used for at least 5 hours.
3. Using the special wrench you have been provided with, unscrew the plug positioned under the machine.
4. Drain all the water contained in the boiler.
5. Screw the plug back on, making sure that it is properly tightened, replace plug seal.
6. Turn the machine on, the electronic board will automatically fill the boiler.

**NOTE:** In some cases, even with a new machine, water replacement is necessary. This is normal and is caused by the possible impurities accumulated by the water during testing.

**ATTENTION:** During the automatic boiler filling phase, the "WATER REPLACE" red light turns on. To finish the boiler refilling operation, turn **REF 115TA4701** off and then back on.

#### Accessories cleaning

Accessories are cleaned using **REF 115TA4701** itself. After their usage, clean brushes and small brushes with the nozzle (fig 1).

## Boiler's decalcification

The frequency of the boiler cleaning depends on the quantity of limestone in the water used.

Approximately every 1–2 years it is recommended to decalcify the boiler. For this operation contact an Authorized Service Center.

### O-ring substitution in steam outlet (fig 3)

Disconnect the machine from the main power supply; unplug the steam outlet by unscrewing the four front bolts; open the box; replace the O-ring and reassemble all the parts.

The O-ring (in Viton) needs to be replaced if there is a leak in the steam outlet.

## Water filter replacement

The water filter, placed in the pump's intake tube, has to be replaced after 500 litres of water are consumed. The filter is at the beginning of the tube immersed in the water replacement tank. To replace it, remove the tank's cap and take the filter out (when a new filter is mounted, pay attention to the arrow on the filter itself, that indicates the direction of the water flow; if the filter is not mounted correctly, no water will be pumped).

## Greasing

All accessory joints are to be greased frequently or at least every 2–4 months, in particular the nozzle on the machine's steam outlet (fig 3) and the opening on the sheath's pipe joint.

## 10. What to do when

### The time necessary for the water to warm up has increased considerably (more than 8–10 minutes)

Possible causes:

- There is a steam leak from the accessories: interrupt the output of steam.
- The electrical resistances are coated with limestone: decalcify the boiler.
- The heating elements are damaged: they have to be replaced.

### The red signal light "water replace" turns on

Try to turn the machine off and on again: if the light turns on again :

- It is necessary to replace the boiler's water (follow the instructions above).
- The pump is being obstructed by dirt or air bubbles: turn the machine off, wait approx one hour and then restart the machine.
- The water filter is dirty: replace the filter.
- Distilled water has been used: empty the tank and fill it with tap water.
- If the red light turns on again: contact an Authorized Service Center.

### REF 115TA4701 is not generating steam

- The machine is not pressurized: turn it on and wait a few minutes.
- There is no water in the refilling tank (the yellow light is on). Add water.
- The flexible tube ending is not properly connected to the machine's steam outlet. Check if is correctly connected.
- The red light "water replace" turns on and the machine runs the safety phase (look at the instructions above).
- The steam regulation knob is completely closed. Open it.

- Make sure that the machine is properly connected to a power supply.

### Steam is coming out of the safety valve

The safety valve has intervened. Contact an Authorized Service Center (look under "warnings").

### The machine does not reach the working pressure

- The safety thermostat is off: switch it on.
- The heating elements are damaged: they have to be replaced.
- Improper connection of the machine to a power supply: check the connection.
- Insufficient water in the external tank: check if there is water and, if not, add.

### There is a power shortage

- Make sure that the power outlet provides sufficient power to the machine and make sure that safety devices are installed to protect the electrical system. Always be aware of the machine's power (look at the data panel).
- Make sure that other household appliances (ovens, fridges, etc.) are not connected to the same power line since this may not be compatible with the electrical system peak load.
- The machine electrical system is damaged: contact an Authorized Service Center.

### The accessories' connections are leaking

- Make sure that the O-ring on the steam outlet nozzle is in good condition and correctly assembled.
- Grease the steam outlet and/or replace the O-ring.



## 11. Warranty

- Every single **REF 115TA4701** is thoroughly tested before it is shipped.
- The warranty lasts one year on all electrical and mechanical parts. The warranty does not include those components subject to wear and tear (O-ring seals, brushes, filters, etc.)
- The warranty ends in case of: machine tampering or opening; an evident, verified wrong usage; a use of the machine not in compliance with the instructions of this manual.
- The warranty starts from the date of the invoice.
- Transportation costs for the machine's repair to the Authorized Service Center or to Energic Plus, are at the customer's complete charge and risk.

### REF 115TA4701, detergent/disinfectant injection model

- The steam generator **REF 115TA4701** is supplied with detergent / disinfectant / water injection pump. With this model it is possible to mix with steam a product put in the proper container positioned on the back of the machine.
- This model provides a standard flexible steam hose with a three-control sorter: control n° 1 is for steam supply; control n° 2 is for detergent injection and control n° 3 is for steam supply + detergent injection.
- The proper pump will mix the product with the generated steam.
- Before you start working under the "injection" conditions, make sure that the container (smaller tank) is filled with the product to be used and placed in the housing to be hooked up to the rear rack.
- The injection pump is activated by pressing the "PUMP INJECTION" button set on the control panel of the machine and pressing the related switch on the grip. When the pump is activated, the product will be injected in the generated steam through the accessories (select control n° 2 or n° 3).
- Do not use foamy, acidic or inflammable detergents.
- Check the suitability of the products poured into the tank when used in combination with the steam at the temperature recommended (160 °C) for a proper functioning, in order to avoid inhaling toxic and noxious gases; it is recommended to use the machine in ventilated rooms. Therefore it is not recommended to use detergents producing gas.

**NOTE:** The injection pump used for **REF 115TA4701** is specifically designed to mix detergents, disinfectants and water. Its characteristics prevent it from harming the operator or other persons in the room in any way. Any other

use is to be considered improper and therefore dangerous. The maker is not liable for possible damages caused by improper use.

When the detergent injection pump is in operation, to assure its correct functioning, always check that the external plastic container (smaller tank) is filled with the liquid to be used.

### MATERIAL USED IN CONTACT WITH THE DETERGENT

- Suction pipe: PVC or silicone.
- Feeding pipe: Teflon.
- Pipe fittings: propylene, nickel-plated brass, stainless steel, etc.

### REF 115TA4701, intake model

#### Assembly

- Place the suction device on **REF 115TA4701** so as to insert the four fastening bolts of the vacuum device into the four proper seats set of the top of the machine.  
**NOTE:** this operation could require a slight forcing to facilitate the insertion of the four bolts into the proper seats.
- Connect the cord of the vacuum device to the suitable socket set on the left of the front panel of the machine. This socket is suitable only to power the aspirator, it is not to be used to connect any other electric appliances than the aspirator.
- Connect the steam vacuum accessory (suction pipe with pistol grip) as follows: insert it into the central hole set on the front part of the aspirator, then insert the joint of the smaller pipe into the proper accessory outlet set on the right of the front panel of the machine.
- Connect the vacuum accessories of your choice.

#### Use

- Fill the external tank of the machine with water, which is set in the small container on its back, then plug in: wait 5 minutes to attain the optimal steam temperature so to get the machine ready to work (OK green light on).
- Now you can choose to use **REF 115TA4701** with steam only or with steam + aspiration: to generate steam press the proper switch set under the grip with your forefinger. To activate only or also the aspiration, switch on the MOTOR button set on the vacuum device (make sure that its porthole is perfectly closed) .

#### (Soiled) water replacement

- Unplug **REF 115TA4701**.
- Disconnect the vacuum accessories from the suction device.

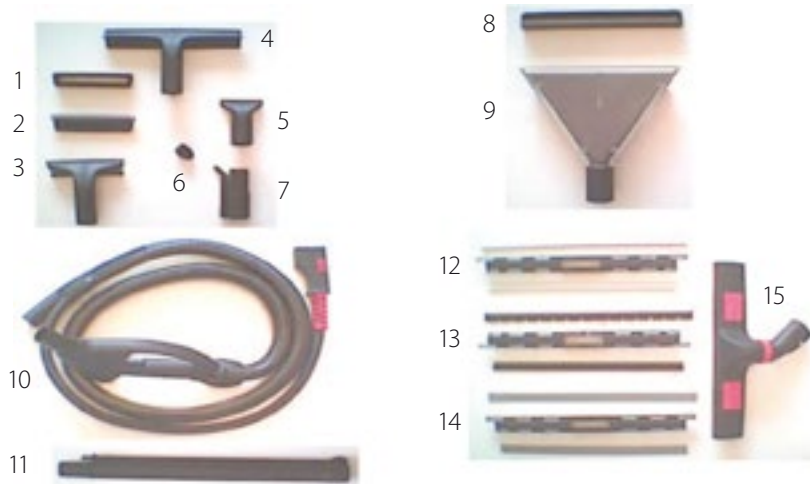
- Unhook the two spring hooks set on both sides of the suction device.
- Grip the handle set on the suction device and lift up.
- Drain all soiled water and put all pieces back together to get the machine ready to work.

### Suction device specifications

- Power: 850 W
- Loudness: 72 decibels
- Vacuum pressure: -1900 mm of water
- Soiled water tank capacity: 12 l

REF 115TA4701 is also available in version Injection/Intake.

## 12. Steam intake accessories available (the list of standard accessories may vary according to the models)



POS.	DESCRIPTION	REF
1	Bristle frame 150 mm	<b>163TA7924</b>
2	Window wiper frame 150 mm	<b>163TA7925</b>
3	Steam intake nozzle 150 mm	<b>163TA7926</b>
4	Steam intake glass-cleaner 250 mm	<b>163TA7927</b>
5	Nozzle 80 mm	<b>163TA7928</b>
6	Round brush dia 30, polyester	<b>163TA7929</b>
6*	Round brush dia 30, brass	<b>163TA7930</b>
7	Universal fittings-holder steam crevice tool	<b>163TA7931</b>
8	Plastic tongue "strip" holder	<b>163TA7932</b>
9	Dust intake brush dia 35 with steam room and castors	<b>163TA7933</b>
10	Flex hose – steam suction, with handgrip, 05MT 3-button LG.	<b>163TA7934</b>

POS.	DESCRIPTION	REF
10*	Flex hose – steam suction, with handgrip, 05MT 3-button WG. (Ecoline)	<b>163TA7935</b>
11	Steam intake extension pipe	<b>163TA7936</b>
12	Steam intake brush dia 12 for carpets	<b>163TA7937</b>
13	Steam intake brush dia 12 for floor	<b>163TA7938</b>
14	Steam intake brush dia 12 for fluids	<b>163TA7939</b>
15	Dust intake nozzle dia 12, 400 mm long	<b>163TA7940</b>
12*	Steam intake brush dia 13 for carpets	<b>163TA7941</b>
13*	Steam intake brush dia 13 for floor	<b>163TA7942</b>
14*	Steam intake brush dia 13 for fluids	<b>163TA7943</b>
15*	Dust intake nozzle dia 13 300 mm long	<b>163TA7944</b>

\* Optional

N.B. Some models of our machines may show slight differences, compared to the descriptions given per present manual, as to the technical and manufacturing features and the standard accessories provided.

## 13. Safety valve – Model 14A.7 (complying with the P.E.D. 97/23/EC)

### 1. Details on the valve

On the cap:

1. EC-marking and category
2. Manufacturer's identification code
3. Size of the fixing pipe thread (nominal diameter)
4. Minimum and maximum allowable temperature
5. Valve model

On the body:

1. Rating pressure (in bar)
2. Serial number (batch identification number)
3. Year of manufacture

### 2. Safety and security, general information

- Do not tamper with the cap: it is the valve seal, a security for its rating;
  - Do not compress the pin against the seat of the gasket;
  - The manufacturer is not liable for any and all improper usage of the safety valve and/or for damages caused by operations this manual does not include;
- NOTE:** Any possible modifications changing the structure and the operation of the safety valve has to receive the manufacturer's written consent; therefore, if the customer modifies, directly or through a third party, the safety valve, then the validity of the EC Statement of Conformity is no longer applicable.

### 3. Safety valve usage

- The safety valve can be used for those fluids classified under group 2, per article 9, point 2.2 of the 97/23/EC Directive (gases in general, steam, etc.)
- The safety valve cannot be used for those fluids classified under group 1, per article 9, point 2.1 of the 97/23/EC Directive (corrosive gases, explosives, etc.).

### 4. Installation

- Using a key, screw the thread into its seat. Do not interpose any materials between the two parts.
- Should you deem it advisable to interpose some material, use a Teflon strip, paying attention not to obstruct the flow hole.

**NOTE:** the use of glue to fix the safety valve into its seat is absolutely forbidden, because it could cause the sealing plug to block.

The safety valve has to be installed in such a way that, should it be activated due to an over-pressure, the fluid discharged will not cause any injuries to people, animals, or things.

### 5. Start-up

- At the starting up of the steam generator, to check the efficiency and the correct functioning of the safety valve, you must:

- Test its opening according to the recommendations per the following point 6. "Inspections under operation"; test its opening at the rated pressure.
- The temperature should not to be lower nor higher than the minimum and maximum temperature values indicated on the safety valve cap and in the "EC Conformity Statement", as per Attachment VII of the 97/23/EC Directive.

### 6. Inspections under operation

- Every 6 months you should carry out at least two tests on the safety valve to check its correct opening and avoid the risk for the gasket to remain sealed to the valve seat.
- The tests have to be carried out with the machine under pressure, as follows:
  - Safety valve without ring  
Be careful not to be injured by the fluid the valve discharges.  
Increase the steam generator pressure so as to open the sealing plug and discharge the fluid under pressure. Then, bring the pressure to its initial (working) value, thus causing the sealing plug to close.
  - Safety valve with ring (and with pin) for its opening  
Be careful not to be injured by the fluid the valve discharges.  
Acting on the ring, lift up the pin with the sealing plug so as to discharge from the steam generator the fluid under pressure. Then, release the pin thus causing the sealing plug to close.

### 7. Maintenance

The safety valve does not require any specific maintenance. When worn, it has to be replaced immediately.

### 8. Discarding

- The safety valve has to be discarded as scrap metal. Do not disassemble its components.
- If the safety valve is faulty, please contact our Technical Service. Make sure you can give them the following details:
  - Safety valve model number (i.e.: MOD: 14A)
  - Series and year of manufacture (i.e.: 01-2003)

The manufacturer will not be held responsible for any and all faults and/or accidents, which may occur as a result of an improper, use by the customer, not in compliance with the instructions this manual gives.

## 9. Technical features

- Rating pressure (in bar): 8,5 bar from – 0 up to + 10% tolerance
- Max allowable temperature: 250 °C
- Min allowable temperature: -10 °C
- Size of the fixing pipe thread (nominal diameter): 1/8 gas
- Fluids used: fluids classified under group 2, per art. 9, point 2.2
- Steam discharge output: 250 l/m
- Back pressure: atmospheric
- Discharge coefficient :  $K=0,15$

Safety valve cap: Brass CW614N EN12164

Control screw: Brass CW614N EN12164

Lock nut: Brass CW614N EN12164

Spring: Stainless Steel DIN17224

Shutter: Brass CW614N EN12164

Gasket: FKM DIN ISO 1629

Valve Body: Brass CW614N EN12164

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# ENERGIC Plus®



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