USER INSTRUCTION

STEAM BOX INDUSTRIAL

• Steam Box Vac Industrial • Bacchus Industrial • Steam Box Industrial



TECNOVAP

L'ARTE DEL VAPORE

MADE IN ITALY PREMIUM QUALITY

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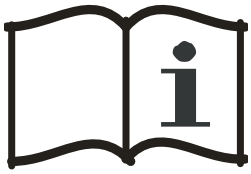
Understanding the symbols on the appliance

BEFORE USING THIS APPLIANCE, READ AND COMPLY WITH THESE USER INSTRUCTIONS.

KEEP THESE INSTRUCTIONS FOR CONSULTATION WHEN REQUIRED AND PROVIDE THEM WITH THE APPLIANCE IF PASSED ON THE SUBSEQUENT OWNERS.

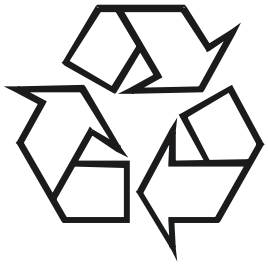
BEFORE USING THE APPLIANCE FOR THE FIRST TIME, YOU MUST READ THE SAFETY REGULATIONS GIVEN IN THIS MANUAL.

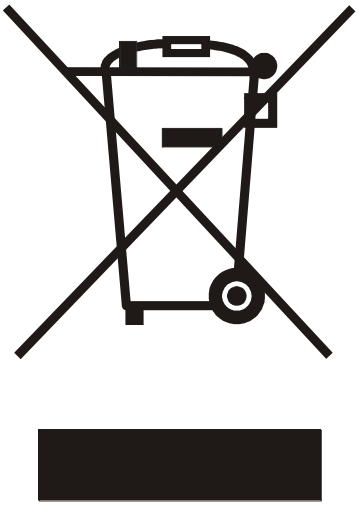
ANY DAMAGE CAUSED DURING TRANSPORTATION MUST BE PROMPTLY NOTIFIED TO YOUR RETAILER.

	**WARNING!** **STEAM…. DANGER OF SCALDING**
	**WARNING!!**
	**READ THE OPERATOR MANUAL**
	**OPERATOR MANUAL;** **OPERATING INSTRUCTIONS**

	**DANGER OF SCALDING!!** **WEAR PROTECTIVE GLOVES.**
	**EQUIPMENT WITH SOUND PRESSURE LEVEL > 85db** **WEAR EARS PROTECTIVE SHROUDS.**

ENVIRONMENTAL PROTECTION

	ALL PACKAGING IS RECYCLABLE. THE PACKAGING MUST NOT BE DISPOSED OF IN THE HOUSEHOLD WASTE, BUT MUST BE DELIVERED TO AN AUTHORISED COLLECTION CENTRE

	DECOMMISSIONED APPLIANCES CONTAIN PRECIOUS RECYCLABLE MATERIALS AND SHOULD THEREFORE BE DELIVERED TO A COLLECTION CENTRE. ELECTRICAL AND ELECTRONIC APPLIANCES, BATTERIES, OIL AND SIMILAR SUBSTANCES MUST NOT BE RELEASED INTO THE ENVIRONMENT. PLEASE DISPOSE OF THESE USING APPROPRIATE SEPARATED WASTE COLLECTION SYSTEMS.
	SUBSTANCES SUCH AS ENGINE OIL, DIESEL, PETROL OR OTHER FUELS MUST NOT BE RELEASED INTO THE ENVIRONMENT. PROTECT THE SOIL, DISPOSE OF USED OIL IN COMPLIANCE WITH ENVIRONMENTAL LAWS.

The user may return the appliance for disposal to the retailer when purchasing a new equivalent appliance, on a one-to-one basis.

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11. DECLARATION OF CONFORMITY

2. SAFETY REGULATIONS

- Do not open or remove parts of the machine for any reason, if the appliance has an operating fault or malfunction, remove the power plug and contact an authorised technical assistance centre or the store where the appliance was purchased.
- The appliance must be connected to the mains power by a qualified electrician and must conform to the contents of IEC 60364-1.
- If the power cable is damaged, it must be replaced by the manufacturer or a technical assistance centre, or in any case by a person with similar qualifications, in order to prevent all risks.
- Make sure that the power supply to this appliance is fitted with a differential device which can cut off the power supply if the leakage current to earth exceeds 30 mA for 30 ms, or a device that can check the earth circuit.
- **SAFETY VALVE** This appliance is fitted with two safety valves designed to ensure the safety of the appliance if any other primary control elements were inefficient (due to a fault). Due to the extreme importance of these components and to avoid compromising the safety of the appliance, they must be replaced (by an authorised technical assistance centre) every 2 years from the date of purchase.
- **PRESSURE SWITCH** This appliance uses a pressure switch to control and maintain the pressure at the set levels (see “rated pressure” on the technical label on the appliance); if steam leaks from the lower part of the appliance, it means that operation is compromised and the safety valve has cut in to limit the pressure inside the boiler. **Do not use the appliance, switch the power supply off immediately and call the technical assistance.**
- **DISCHARGE OF BOILER SLUDGE (DRAINAGE)** The appliance automatically signals the need to drain the sludge on the display; in this case the wording C A L C will flash alternately with the current screen displayed.
- **WARNING** The device must be kept upright during use and transport

- **WARNING.** Use a set of connectors, pipes and new seals every time the appliance is connected to the mains water supply.
- **WARNING.** This machine was designed for use with a detergent supplied or recommended by the manufacturer. The use of other detergents or chemicals may compromise the safety of the operator and the machine.
- **WARNING.** Risk of explosion. Do not spray flammable liquids.
- **WARNING.** The employer shall perform a risk assessment in order to specify the necessary protective measures regarding aerosols, depending on the surface to be cleaned and its environment. Respiratory masks of class FFP2, an equivalent or higher are suitable for the protection against hydrous aerosols.
- **WARNING.** Do not use the machine if there are any persons standing within the radius of action.
- **WARNING.** High pressure jets can be hazardous if used improperly. Do not direct the jet towards persons, live electrical equipment or towards the appliance itself.
- **WARNING.** Do not direct the jet towards yourself or other persons to clean clothing or footwear.
- **WARNING.** Water that has passed through the backflow prevention devices is not potable.
- Disconnect the mains power by removing the plug from the power socket, before carrying out any maintenance.
- **WARNING.** This appliance is not intended for use by people (children included) with impaired physical, mental or sensory capacities or with insufficient experience and/or expertise, unless they are being supervised or instructed on the use of the appliance by a person responsible for their safety.
- Watch over any children to make sure that they do not play with the machine.
- **WARNING.** To ensure the safety of the appliance, use only original spare parts supplied or approved by the manufacturer.
- **WARNING.** The hoses, accessories and couplings are very important for the safety of the appliance. Use only hoses, accessories and couplings recommended by the manufacturer.
- **WARNING.** Do not use the appliance if the power cable or other important parts have been damaged, for example safety devices, high pressure hoses or trigger gun.
- **WARNING.** When using an extension cable, the plug and socket must be watertight.
- **WARNING.** Inappropriate extension cables may be hazardous.
- The data concerning hand/arm vibrations are not mentioned for this appliance, as they are less than 2.5 m/s^2.
- **WARNING.** The detergent injection on this appliance must not be used continuously, use only intermittently, 20 seconds ON 20 seconds OFF. Do not run the detergent function continuously for more than 2 minutes.

- When using detergents (non-foaming for extraction machines), follow the specific instructions given on the original packaging: usually this is 1 litre of detergent for every 10 litres of water (detergent percentage approximately 10%), taking care to pour the detergent in first in order to obtain a better mixture.

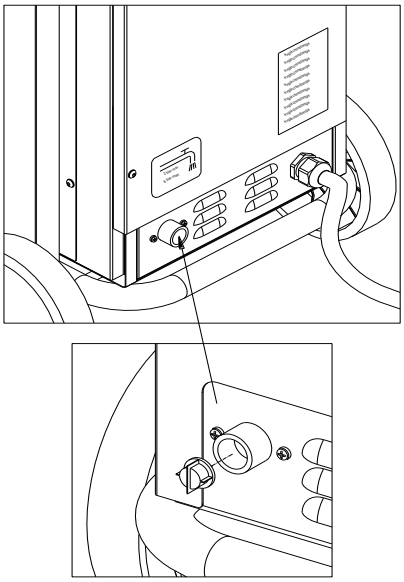
Take great care of the detergent used, as some that are available on the market, when heated to over 100°C, thus to a gaseous state, may produce highly toxic vapours. Check the technical data sheet of the product or consult your supplier.

- **WARNING.** In the event of accidental contact with the detergent used, strictly follow the instructions given on the package and the relative safety data sheet.
- Wear gloves when using the appliance.

3. CONNECTION TO THE MAINS WATER SUPPLY

The appliance must be connected to the mains water supply by qualified staff. Use a set of new pipes and couplings suited for use with foodstuffs, do not reuse the set (couplings, pipes, seals, adapters, etc.) for a new connection.

As the appliance is mobile, it is not supplied with a mains water connection pipe due to the variable position and the distance of the appliance to the water connection point.



4. INTRODUCTION

Dear Customer,

Congratulations for choosing this appliance.

With the aim of continuously improving and updating our range and offering increasingly more innovative models, TECNOVAP has developed, designed and made **STEAM BOX INDUSTRIAL**, a combined cleaning appliance which brings you the power of steam and the energy of suction (optional).

This product is equipped with a reliable stainless-steel boiler able to produce a constant, powerful supply of steam (24 hours a day) thanks to the automatic recharge system.

STEAM BOX INDUSTRIAL is also equipped with a separate detergent tank for injecting detergent at 90-160°C and an overheated water injection system.

In other words, to the power of steam, the epitome of eco-cleaning, TECNOVAP has combined a powerful suction unit (optional) which can suck up both solids and liquids.

STEAM BOX INDUSTRIAL is the perfect solution for cleaning and disinfecting.

5. TECHNICAL FEATURES

FACTORY: TECNOVAP SRL VIA DEI SASSI 1A 37026 PESCANTINA VERONA ITALY

Model		**Steam Box Industrial**
Code		5H05010 – 5H04010 – 5H03010 – 5H02010 – 5HH01010 – 5H0301M – 5H0101M 5H05I10 – 5H04I10 – 5H03I10 – 5H02I10 – 5H01I10 – 5H03I1M – 5H01I1M 5H05T10 – 5H04T10 – 5H03T10 – 5H03T1M
Rated Voltage	V	230/400
Current type	Hz	50/60 3~
Rated Power Boiler	kW	10,8 – 14,4 – 21,6 – 28,8 – 36,0 10,8 – 14,4 – 21,6 – 28,8 – 36,0 10,.0 – 14,4 – 20,75
Rated Power vacuum	kW	1,0 – 1,2 – 3,0
Max Rated Power	kW	11,0 – 14,8 – 22,0 – 29,2 – 36,4 11,0 – 17,8 – 22,0 – 32,2 – 39,4 11,1 – 15,8 – 22,15
Rated Steam Pressure	kPa bar	1000 10
Permissible Steam Pressure	kPa bar	1200 12
Max. Steam Rated Flow	g/min	291 – 388 – 582 – 776 – 970 291 – 388 – 582 – 776 – 970 291 – 388 – 564
Max. Steam Rated Flow	Kg/h	17,5 – 23,0 – 35,0 – 46,5 – 58,0 17,5 – 23,0 – 35,0 – 46,5 – 58,0 17,5 – 23,0 – 33,8
Max temperature	°C	183
Max. inlet water pressure	KPa bar	600 6
Min. inlet water pressure	KPa bar	50 0,5
Kickback forces	N	< 20
Vibration hand-arm	m/s^2	< 2,5
Sound pressure level LPa	dB	98,7
Sound power level Lwa	dB	111,4
Mass	kg	106

Model		**Steam Box Industrial Bacchus**
Code		5005060 – 5004060 – 5003060 – 5002060 – 5001060 – 500306M – 500106M
Rated Voltage	V	230/400
Current type	Hz	50/60 3~
Rated Power Boiler	kW	10,8 – 14,4 – 21,6 – 28,8 – 36,0
Max Rated Power	kW	11,0 – 14,8 – 22,0 – 29,2 – 36,4
Rated Steam Pressure	kPa bar	600 6
Permissible Steam Pressure	kPa bar	1200 12
Max. Steam Rated Flow	g/min	291 – 388 – 582 – 776 – 970
Max. Steam Rated Flow	Kg/h	17,5 – 23,0 – 35,0 – 46,5 – 58,0
Max temperature	°C	165
Max. inlet water pressure	KPa bar	600 6
Min. inlet water pressure	KPa bar	50 0,5
Kickback forces	N	< 20
Vibration hand-arm	m/s^2	< 2,5
Sound pressure level LPa	dB	98,7
Sound power level Lwa	dB	111,4
Mass	kg	106

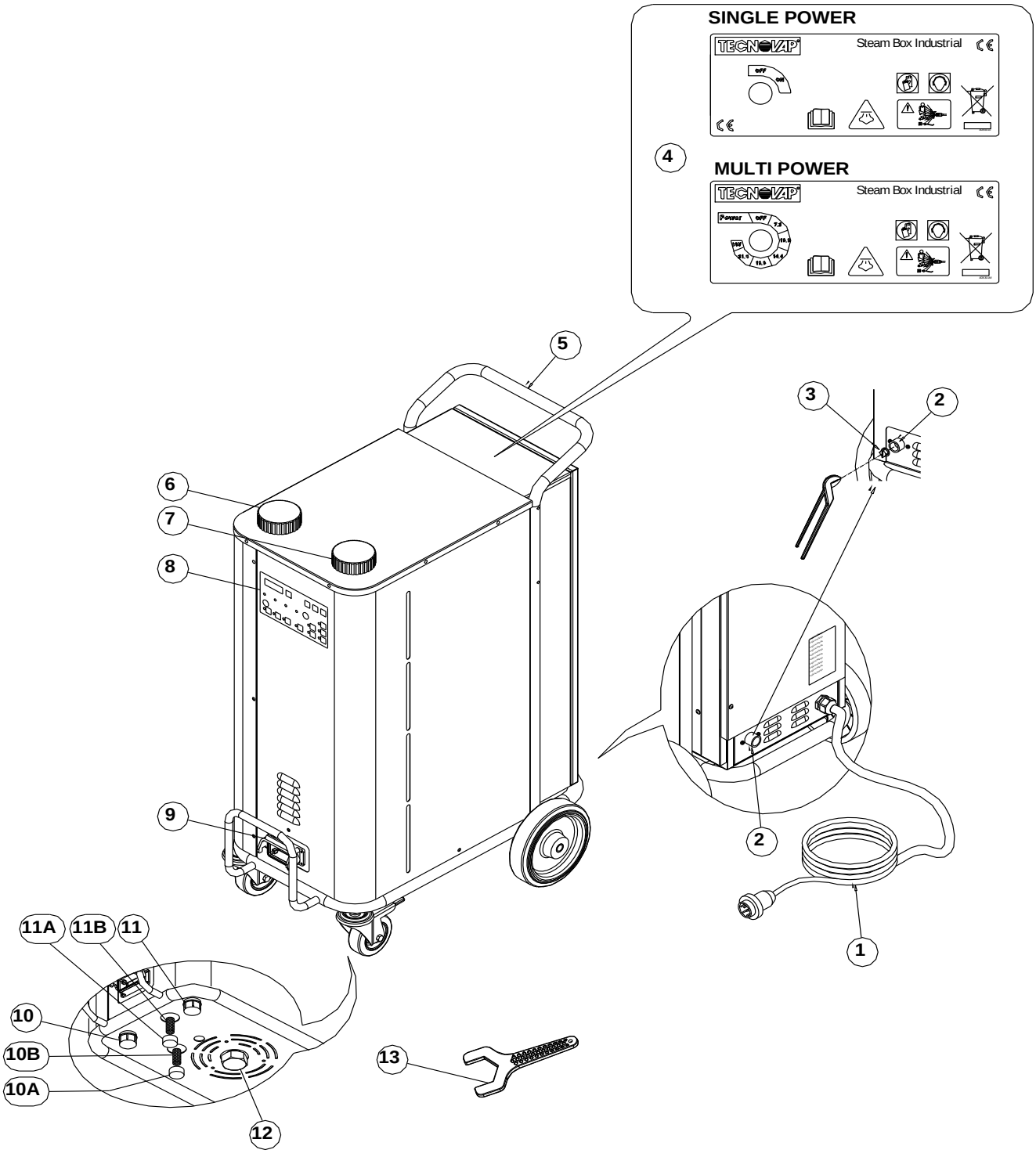
6. NOMENCLATURE

Steam Box Industrial

01) Power cable
02) Mains water connection
03) Mains water filter
04) Main switch
05) Manoeuvring handle
06) Detergent tank
07) Water tank
08) Control panel
08A) Bacchus control panel
09) Steam hose coupling
10) Detergent tank drainage cap
10A) Detergent filter cap
10B) Detergent filter
11) Water tank drainage cap
11A) Water filter cap
11B) Water filter
12) Boiler drainage cap
13) Boiler drainage key
14) Suction unit coupling
15) Female suction hose coupling
16) Hose coupling safety clamp
17) Suction unit support
18) Suction unit bin
19) Suction unit motor fastening catches
20) Hose coupling safety clamp
21) Female suction hose coupling
22) Suction unit motor head
23) Suction unit power cable
24) Main suction unit switch
25) Suction unit bin - turbine coupling hose
26) Steam hose
26A) Hose/system quick-fit connector
27) Steam connector Garolla fitting
27A) System overpressure safety valve
27B) Garolla fitting
28) Safety pressure switch (optional)
30) Steam/water/detergent delivery button/lever
30A) Delivery button locking lever
31) Steam delivery button
31A) “Minimum steam” indicator light
31B) “Medium steam” indicator light
31C) “Maximum steam” indicator light
32) Suction unit button
32A) “Suction” indicator light
33) Overheated water delivery button (intermittent)
33A) “Overheated water” indicator light
34) Detergent delivery button (intermittent)
34A) “Detergent” indicator light
35) “Steam ready” light
36) Radames steam/steam-suction hose
37) Steam hose connector jack
38) Male suction hose
39) Steam/steam-suction extension tubes
40) Locking lever
41) Fastening knob
42) Steam/suction turbo lance
44) Brass brush (Ø 28mm)
45) Stainless steel brush (Ø 28mm)
49) Stainless steel brush (Ø 60mm)
50) Stainless steel scourer
51) Inserts holder brush
52) Inserts locking lever
53) Rubber/bristle Insert (L. 375mm)
54) Rubber/rubber insert (L. 375mm)
55) Industrial steam/suction brush L.530
56) Stainless steel accessory for upholstery
70) July steam hose
71) Steam lance
72) Rectangular brush
73) Cloth holder
74) Triangular brush
75) Quick-fit connection with locking lever
76) Steam extension tube
77) 45° curved bayonet lance
78) Bayonet lance
80) Geyser steam hose
81) Steam hose connector jack
82A) Overheated water delivery button
82B) Detergent delivery button
83) Steam delivery button
84) Lance 100 / 400 / 800 / 1200 mm
85) Round nozzle
86) Window cleaner with diffuser 250 / 350 / 450 mm
87) Steam brush with bristles 250 / 350 / 450 mm
88) Stainless steel floor scraper
89) 4 cm flat nozzle with scraper
90) Steel brush
91) 1 cm flat nozzle

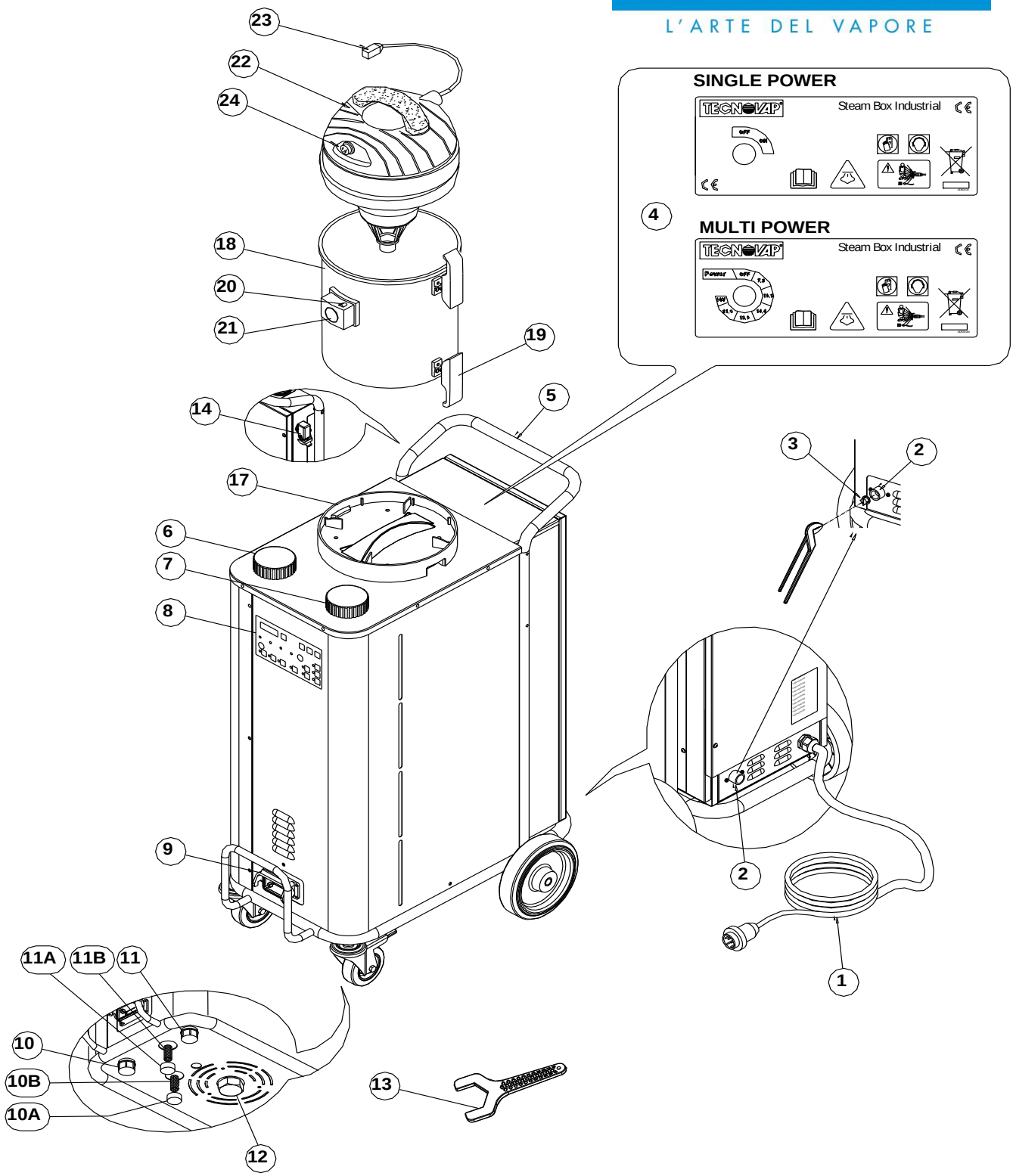
7. TECHNICAL DRAWINGS

STEAM BOX INDUSTRIAL



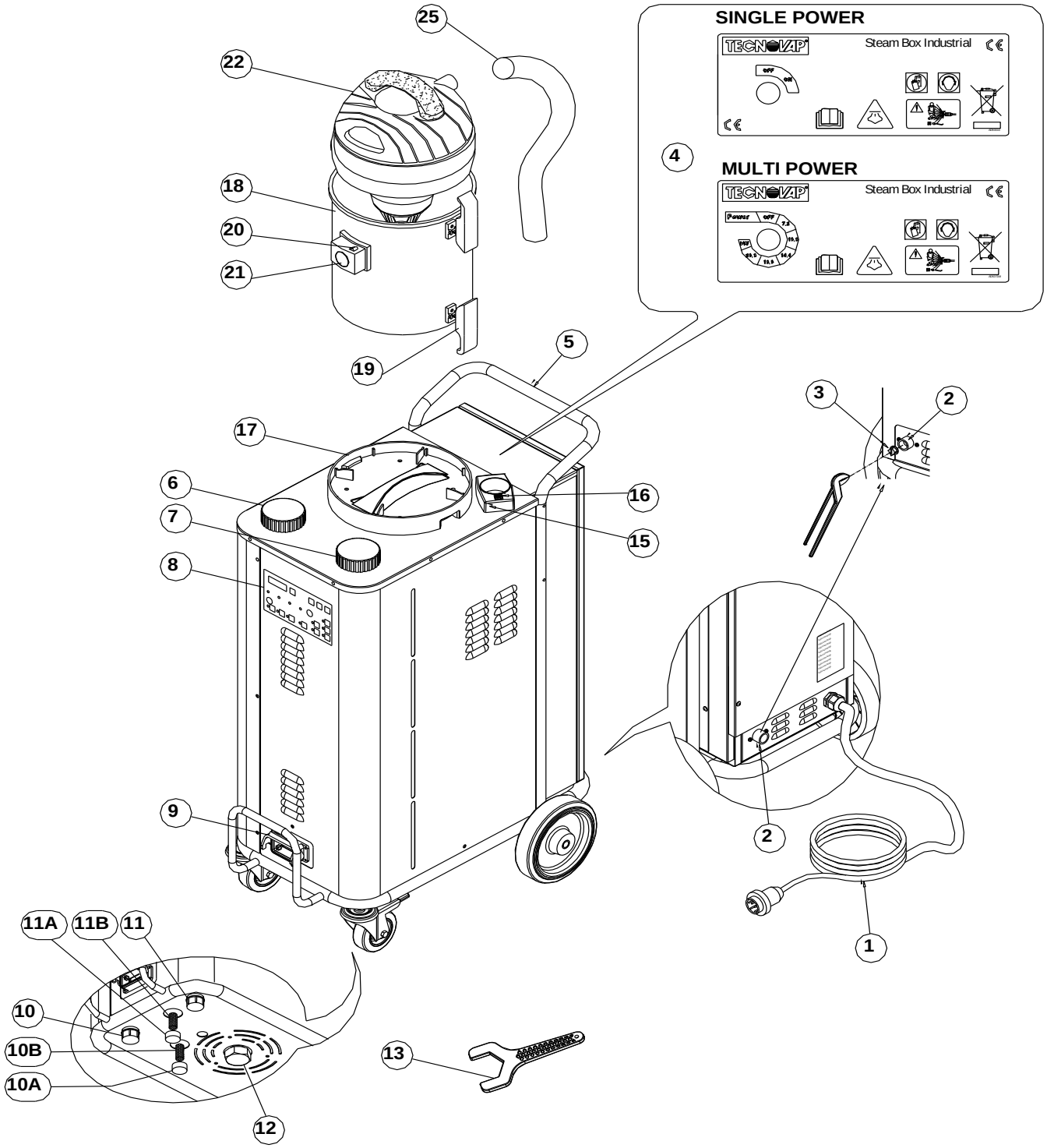
STEAM BOX INDUSTRIAL

WITH SUCTION UNIT

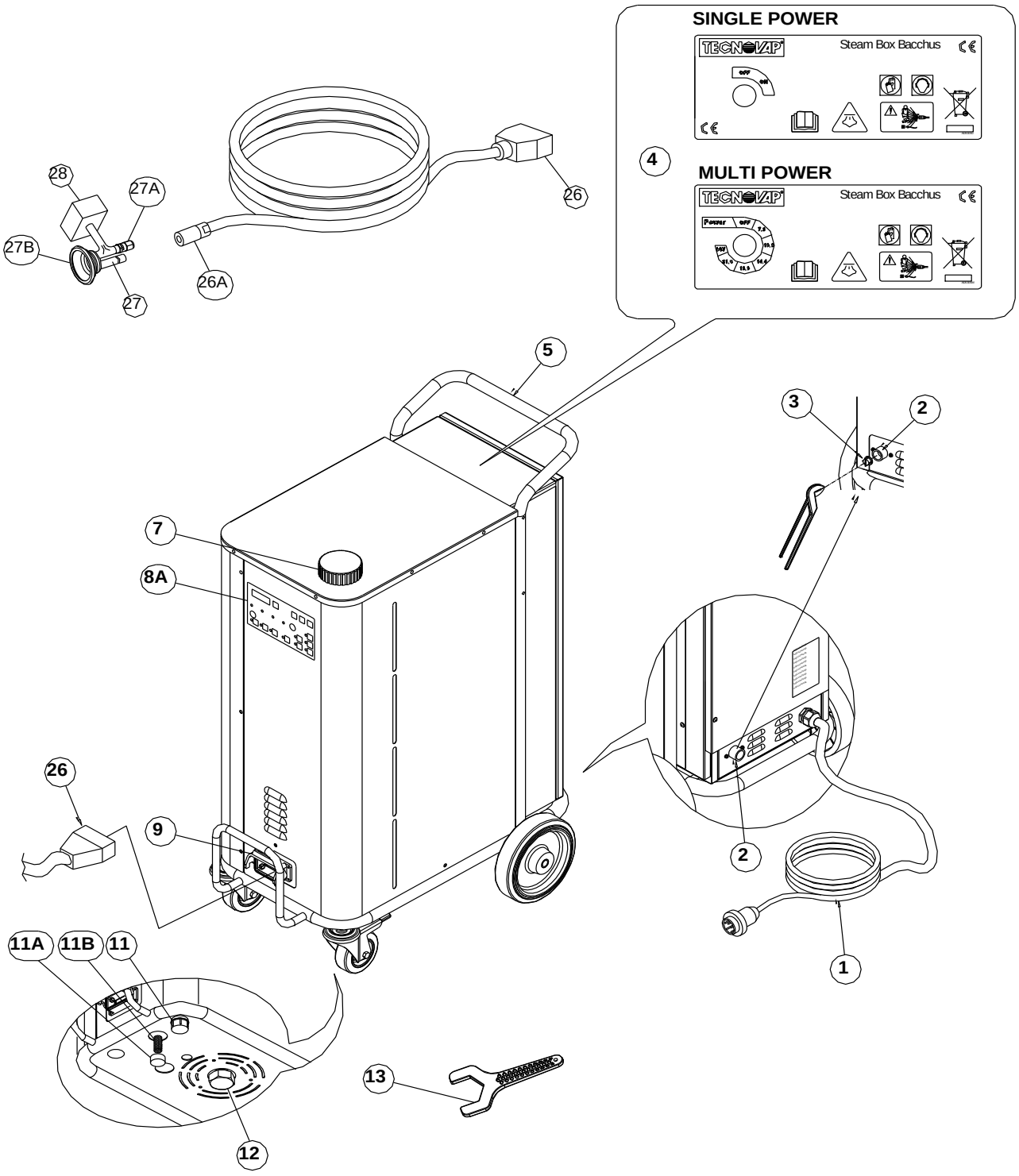


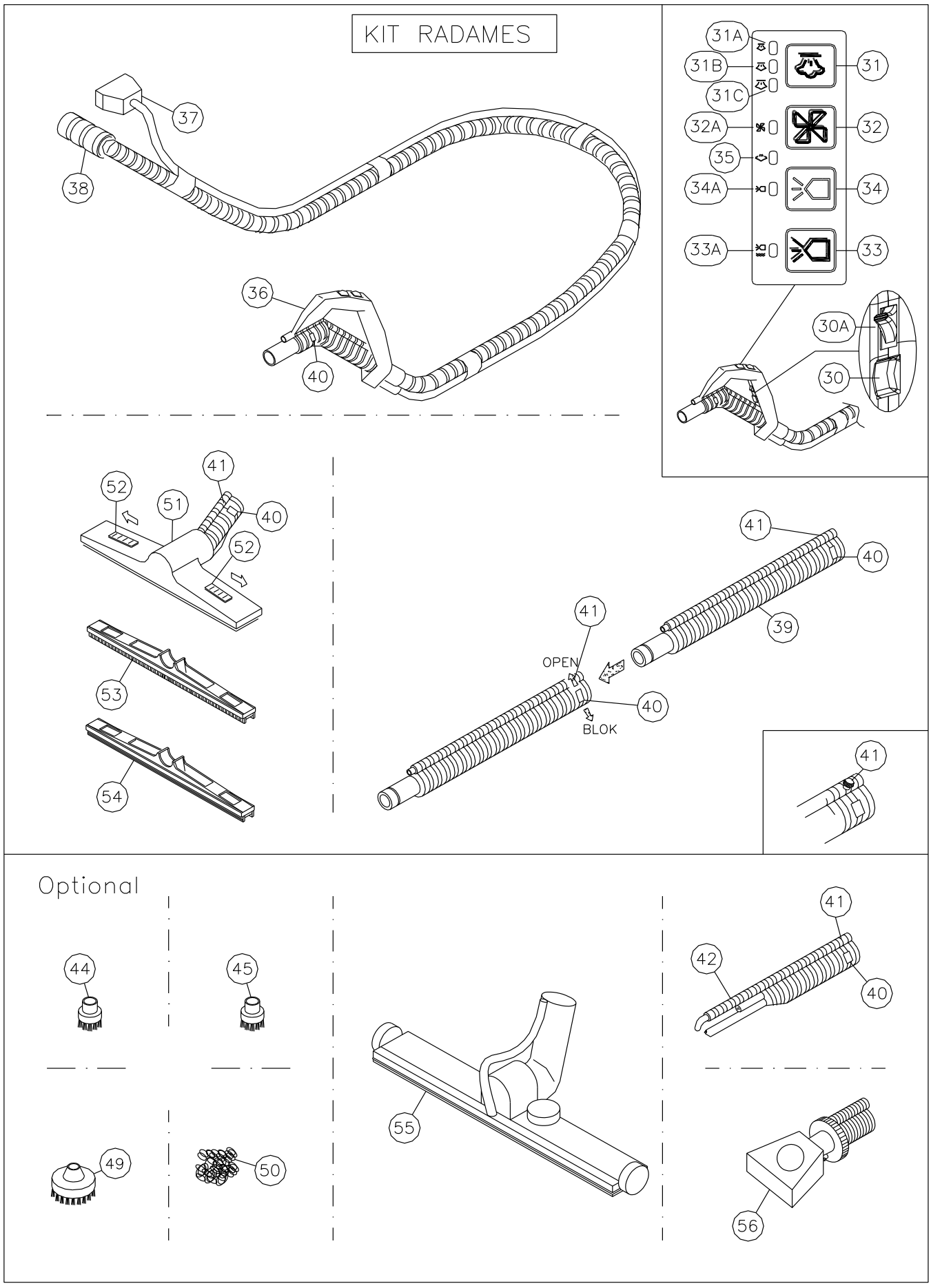
STEAM BOX INDUSTRIAL

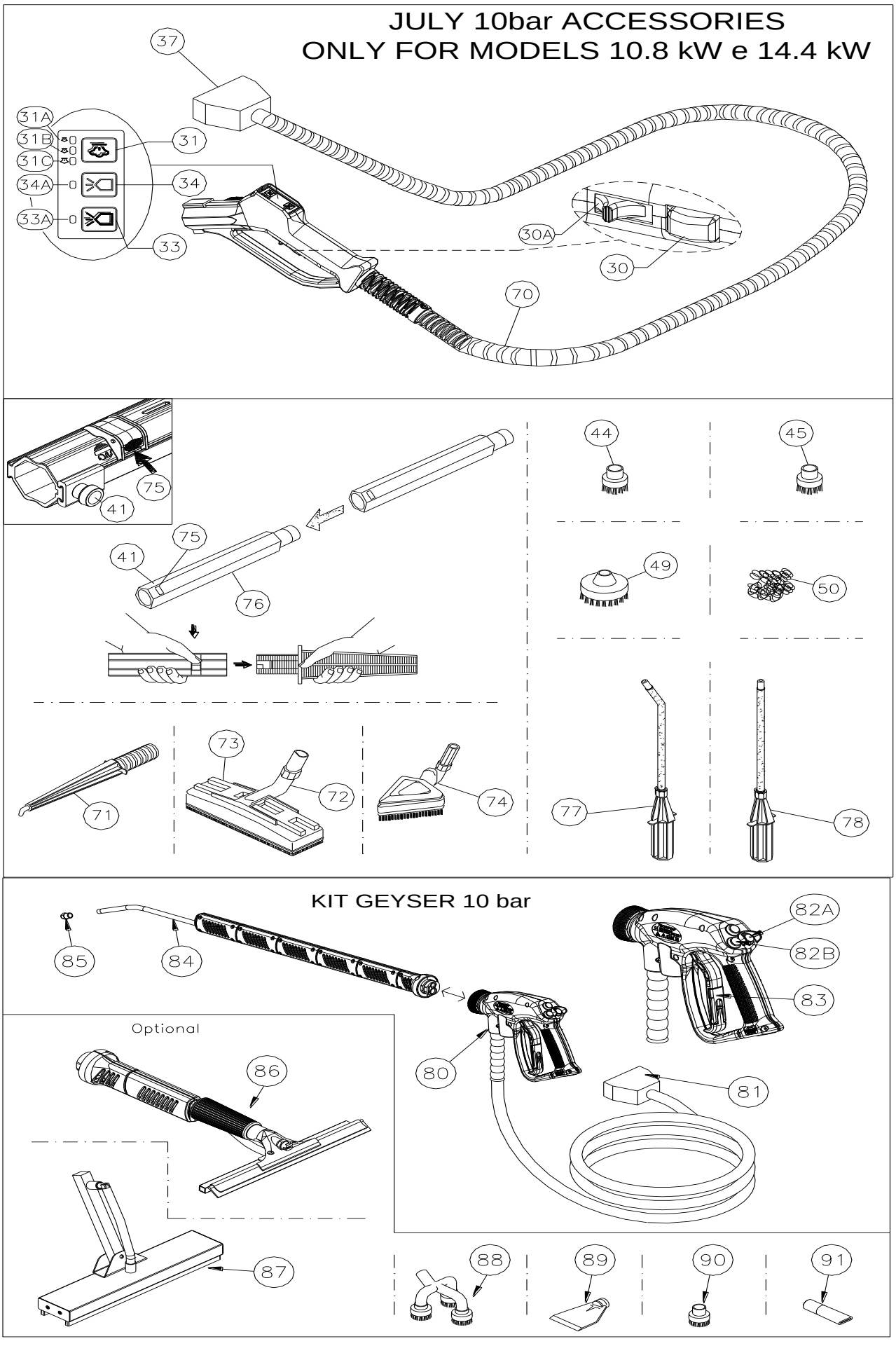
WITH INTEGRATED SUCTION UNIT



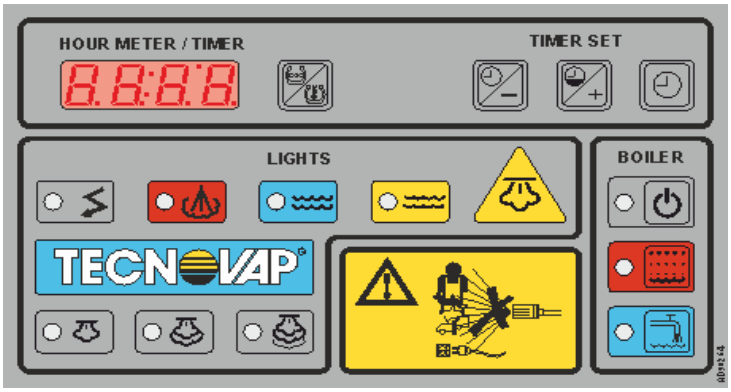
STEAM BOX INDUSTRIAL BACCHUS




KIT RADAMES
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31A
31B
31C
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32A
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34A
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33A
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30A
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OPEN
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BLOK
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Optional
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JULY 10bar ACCESSORIES
ONLY FOR MODELS 10.8 kW e 14.4 kW
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31C
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KIT GEYSER 10 bar
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82A
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CONTROL PANEL (POS. 8)





Power ON indicator
Tells the user that the appliance is connected to the electricity supply.



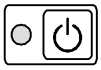
Steam in boiler
When this lights up, it means that the generator is running and that you can start work.



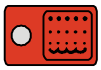
“Low water” light
Indicates that the water tank is empty, and is accompanied by an intermittent buzzer; when on, it is not possible to use the overheated water and no steam will be produced.



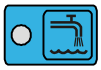
“Low detergent” light
When on, indicates that the detergent tank is empty. The indication is accompanied by a continuous buzzer. Warning! The continuous buzzer has the priority over the “low water” intermittent buzzer, check the activation of respective lights for security.



System ON
The electronic unit, the steam solenoid valves, the boiler recharge pump are powered.



Boiler ON
Switches on the heating elements, the detergent pump and the “overheated water” solenoid valve. If there is no water in the boiler the LED flashes and the heating elements will not come on until the liquid in the boiler reaches the set level, in which case the LED stops flashing and stays on.



Mains water
Water being delivered from the mains water supply, the LED ON continuously indicates that the water inlet is open.



Steam activation buttons / indicators: minimum - medium - maximum.



Detergent purging button and pressure / temperature display.



Shows the “total working hours” counter memory (C1) (hour counter/totaliser).

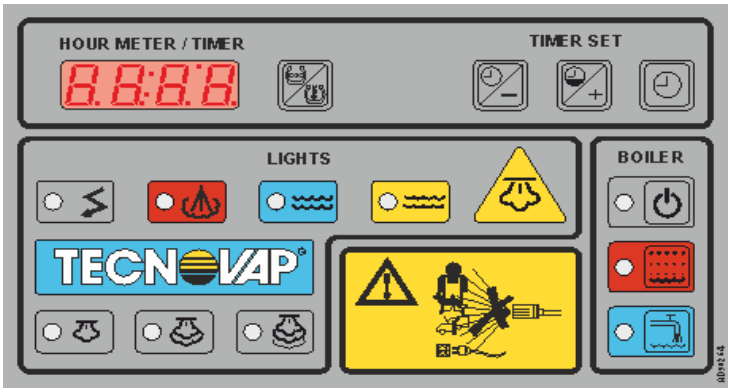


Shows the “partial hours” counter memory, this counter can be reset by the user.



Clock setup button (the time is shown only when the appliance is in stand-by).

BACCHUS CONTROL PANEL (POS.8A)





Power ON indicator
Tells the user that the appliance is connected to the electricity supply.



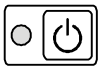
Steam in boiler
When this lights up, it means that the generator is running and that you can start work.



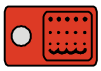
“Low water” light
Indicates that the water tank is empty, and is accompanied by an intermittent buzzer; when on, it is not possible to use the overheated water (optional) and no steam will be produced.



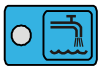
“Low detergent” light
Function not enabled.



System ON
The electronic unit, the steam solenoid valves, the boiler recharge pump are powered.



Boiler ON
The appliance automatically recognises the Bacchus accessory inserted and activates the steam selection buttons on the control pad and the heating elements. If there is no water in the boiler the LED flashes and the heating elements will not come on until the liquid in the boiler reaches the set level, in which case the LED stops flashing and stays on.



Mains water
Water being delivered from the mains water supply, the LED ON continuously indicates that the water inlet is open.



Steam activation buttons/indicators: minimum - medium - maximum.



Pressure/temperature display.



Shows the “total working hours” counter memory (C1) (hour counter/totaliser).



Shows the “partial hours” counter memory, this counter can be reset by the user.



Clock setup button (the time is shown only when the appliance is in stand-by).

8. USER INSTRUCTIONS

(a) After opening the packaging, secure the suction unit bin (18) onto the disc (17) by acting on catches (19).

(b) Insert the suction unit plug (23) in the socket (14) located on the machine's right side (only for steam generators with external suction unit).

(c) Insert one end of the coupling hose (25) in the suction unit head (22), the other end in the female coupling (15) and activate the safety clamp (16) (only for steam generators with integrated suction unit).

(d) Remove the caps from the tanks (6 and 7) and add water and detergent to the respective tanks, **water in the blue tank and detergent in the yellow tank. Take great care in this phase as incorrect filling** (detergent in the water tank and water in the detergent tank) **will cause a generator failure.**

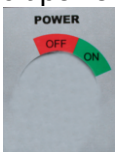
(e) When using detergents (non-foaming for extraction machines), follow the specific instructions given on the original packaging: usually this is 1 litre of detergent for every 10 litres of water (detergent percentage approximately 10%), taking care to pour the detergent in first in order to obtain a better mixture. **Take great care of the detergent used, as some that are available on the market, when heated to over 100°C, thus to a gaseous state, may produce highly toxic vapours. Check the technical data sheet of the product or consult your supplier.**

The detergent tank must be topped up only with detergent diluted with water but **not only with water,** unless this is demineralised.

Using only (non-demineralised) water instead of detergent will cause a failure in the mixing circuit.

(f) Insert the plug (1) in the power socket, making sure that the voltage and amperage correspond to the values given on the machine data plate.

(g) Switch on the appliance by turning the main switch to ON or to the desired power (only multipower models).



Press the buttons st-by  and boiler 

(h) The appliance is fitted with a system to protect against thermal shocks.

If there is no water in the boiler, the system automatically disables the power supply to the heating elements; this situation is indicated by the flashing LED on the "boiler" button  . This system may also intervene after boiler filling operations, following the sludge drainage during the maintenance process.

Partial counter reset



Switch off the appliance using the main switch on the side of the electrical panel, press and hold down both buttons , switch the appliance back on by turning the switch to ON; after the LED control release the buttons, the counter C2 is reset to 0000.

Clock settings

Switch off the appliance using the st-by button (the main switch must remain ON).

The display shows the time, to adjust the clock press , then use the -/+ buttons to increase or decrease the time shown.

Notes: The timer has a buffer battery to maintain the clock settings in the memory, if the appliance is not powered for more than 30 days the timer is initialised and must be reset.

Boiler cleaning signal C A L C

The controller was programmed to warn the user of the need for routine maintenance; the system is programmed to signal every 20 hours of effective work (steam solenoid valve on). Proceed as described in section 9.1 "Boiler Maintenance" to drain off liquids.

C A L C signal reset

After maintenance by the user, hold down the button and switch off the appliance using the button ; the C A L C signal will be reset.

Detergent top-up

When the detergent in the tank runs out, the appliance switches on the light and activates a continuous buzzer, the detergent pump is automatically disconnected; top up the detergent in the tank (6).

Notes: the “low detergent” buzzer (continuous mode) prevails on the “low water” buzzer (intermittent mode).

Integrated suction unit (optional)

When the suction hose coupling is completely obstructed, a safety system automatically blocks the steam generator after one minute. To reactivate the integrated suction unit switch off the appliance by using the main switch, wait 10 seconds before switching it on again.

8.1. USING STEAM BOX INDUSTRIAL WITH RADAMES KIT

Warning!!

Switch off the steam generator before connecting the steam hose.

Insert the male suction hose (38) in the female hose coupling (21) located on the suction unit and the steam plug (37) in the steam socket (9) located on the machine. Push until the catches have locked into their seats and turn the closing lever. Switch on the main switch (4) and   buttons for steam production then wait until the  light comes on, indicating that there is steam in the boiler. The steam ready indicator on the hand grip (35) also lights up.

Select the required quantity of steam delivery using the button (31) on the grip (whenever the machine is switched on the steam selector is always disabled, the LEDs on the steam grip flash alternately to indicate that the required delivery level must be selected); one of the LEDs (31A, 31B or 31C) comes on steady to indicate the set value. (1=minimum 2=medium 3=maximum), press the button (30) to deliver the steam.

Use the lever (30A) to lock the steam delivery button (30).

Button (32) activates the suction unit which can be activated even during steam delivery.

Button (34) allows you to add detergent to the steam and must be run at intervals of a few seconds to avoid excessive detergent injection. For models with overheated water injection, adhere to the operating mode described above, activating button (33).

Both the detergent and the overheated water function must be run at intervals (e.g. 20 seconds on 20 seconds off), neither function is intended for continuous run.

The detergent and/or overheated water are delivered only if the steam outlet is active and the “steam presence” LED  is on.

Warning!!

The button (33) releases from the lance the overheated water under pressure at a temperature which, depending on the model, can reach 180°C. Be very careful not to press this accidentally and make sure that the jet never points at persons or animals.

For steam cleaning combined with injection of detergent and/or overheated water and suction, select and install the most suitable accessory after having first switched off the machine:

Inserts holder brush (51): with relative inserts (53 or 54). The inserts are fitted by moving the locking levers (52) inwards (OPEN position), pushing the inserts upwards and then moving the locking levers outwards (BLOCK position). Afterwards fit the brush to the hand grip or to extension tube/s (39) (one or both) and secure everything in place using the locking lever (40). Finally, tighten the fastening knob (41). Remember that the indicators on the hand grip (32A - 33A - 34A) must be switched off or flashing (31A - 31B - 31C) until the operation has been completed.

Steam/suction turbo lance (42): to be used by itself or with brushes (44 or 45), depending on the cleaning

operation to be performed.

To use this accessory, follow the brush assembly instructions provided above.

Once cleaning has been completed, it is advisable to suck up around 3-5 litres of clean water to clean out the inside of the hose (36) and the suction conduits. Clean and dry all the accessories used. Lift the suction unit bin (18), empty and rinse and then leave to dry before repositioning.

8.2. USING STEAM BOX INDUSTRIAL WITH JULY KIT

(only for models 10,8 kW and 14,4 kW)

Warning!!

Switch off the steam generator before connecting the steam hose.

Insert the steam plug (37) in steam socket (9) on the machine and turn the closing lever.

Switch on the main switch (4) and buttons   and wait until the light  comes on, indicating that there is steam in the boiler.

Select the required quantity of steam delivery using the button (31) on the grip (whenever the machine is switched on the steam selector is always disabled, the LEDs on the steam grip flash alternately to indicate that the required delivery level must be selected); one of the LEDs (31A, 31B or 31C) comes on steady to indicate the set value. (1=minimum 2=medium 3=maximum), press the button (30) to deliver the steam.

Use the lever (30A) to lock the steam delivery button (30).

Button (34) allows you to add detergent to the steam and must be run at intervals of a few seconds to avoid excessive detergent injection. For overheated water delivery, adhere to the operating mode described above, activating button (33).

Both the detergent and the overheated water function must be run at intervals (e.g. 20 seconds on 20 seconds off), neither function is intended for continuous run.

The detergent and/or overheated water are delivered only if the steam outlet is active and the “steam presence” LED  is on.

Warning!!

The button (33) releases from the lance the overheated water under pressure at a temperature which, depending on the model, can reach 180°C, be very careful not to press this accidentally and make sure that the jet never points at persons or animals.

For steam cleaning combined with injection of detergent and/or overheated water, select and install the most suitable accessory after having first switched off the machine:

Fit the steam lance (71) on the extension tubes (if necessary), locking it in place using the quick-fit

connector (75). Finally, tighten the fastening knob (41). To release the accessory and/or extension tubes, unscrew the knob (41), press and hold the quick-fit connector (75).

This procedure also applies for fitting the rectangular (72) or triangular (74) brush, the bristles on which can be covered by a cloth/sponge using the relative cloth holder (73). This method is recommended for cleaning delicate surfaces (e.g. high-quality wood) or vertical surfaces (e.g. tiles). In this case the cloth acts as a dirt “extractor”.

8.3. USING STEAM BOX INDUSTRIAL WITH GEYSER KIT

Warning!!

Switch off the steam generator before connecting the steam hose.

Insert the steam plug (81) in the steam socket (9) on the machine and turn the closing lever.
Fit the desired lance (84) onto Geyser hand grip (80). Screw the nozzle (85) or one of the various optional accessories (87 / 88 / 89 / 90 / 91) into the lance or fit the window cleaning accessory (86) to the hand grip, depending on the cleaning operations you wish to perform. Your lance is now ready for use.

Switch on the main switch (4) and buttons   for steam production and wait approx. 3-8 minutes (depending on the model) until the light  comes on, indicating that there is steam in the boiler.
Use lever (83) to activate steam delivery. If necessary, run button (82B) at short intervals to dispense detergent.

Use the respective buttons,  minimum steam,  medium steam, maximum steam on the control panel (8) according to the desired steam flow. With each switching ON of the device the steam flow is always set on maximum steam.

Both the detergent and the overheated water function must be run at intervals (e.g. 20 seconds on 20 seconds off); neither function is intended for continuous run.

The detergent and/or overheated water are delivered only if the steam outlet is active and the “steam presence” LED  is on.

Warning!!

The button (82A) releases from the lance the overheated water under pressure at a temperature which, depending on the model, can reach 180°C, be very careful not to press this accidentally and make sure that the jet never points at persons or animals.

8.4. USE OF BACCHUS MODEL VERSION

Warning!!

Switch off the steam generator before connecting the steam hose.

This appliance has the 'Bacchus' function, a sanitisation function suitable for cleaning wine making facilities or pharmaceutical plants, etc.

This function uses a lower boiler pressure and offers the possibility to programme appliance switching on/off (st-by) and includes a safety system to protect against excessive pressure on the system where work is carried out.

Insert the steam plug (26) in the generator socket (9) and turn the closing lever.

Connect the Garolla fitting (27B) onto the system and then push the quick-fit female connector (26A) onto the male connector (27) found on the Garolla fitting. Always use suitable protection against burns.

Activate the main switch (4) and the buttons   to produce steam.

The appliance automatically recognises the Bacchus accessory inserted and activates the steam selection buttons on the control pad.

Wait for the  indicator light to come on indicating the presence of steam in the boiler.

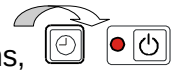
Use the relative buttons,  minimum steam  medium steam  maximum steam depending on how much steam you want.

Auto start-up programming

Turn off the appliance using the  button, press and hold the  button until the display starts flashing (approx. 7 seconds), using the   buttons set the required start time (press and hold the button to move up or down the clock times quickly).

The set time is saved and, if auto start-up is enabled, the system will start the appliance every day as programmed.

Auto start-up enabling

Press in sequence the following buttons,  releasing the first only after pressing the second. The  button will start to flash and the outer segments will temporarily come on to indicate that the function has been activated. (Repeat the operation in sequence to deactivate it).

Using the  keys, select the quantity of steam you wish to use on start-up (the selected flow rate will be shown by the indicator light in the relative button).

The system will start the appliance at the previously set time and it will run for 2 hours, after which it will switch itself off.

Simply press any button within those two hours to deactivate the auto off system.

9. MAINTENANCE

9.1. Boiler maintenance

IMPORTANT

DISCONNECT THE POWER SUPPLY BEFORE CARRYING OUT ANY MAINTENANCE.

WARNING DANGER OF SCALDING

The machine must only be cleaned when cold (generator switched off for at least 5 hours), in the following manner: (for this reason we advise you to perform maintenance at the start of the next use, provided that at least 5 hours have passed between one use and the next).

The appliance is equipped with a maintenance warning system, which informs the user of the need to clean the boiler. The system is programmed to signal this condition after 20 effective working hours, the display will show “C A L C ”.

When this warning is displayed, the machine can in any case be used, completing the job started, then switch off the appliance at the main switch and remove the power plug.

Place a suitably sized basin under the machine and remove the drainage cap (12) underneath, and wait for the boiler to be emptied completely.

Clean any dirt off the cap with running water, check that the seal on the bottom of the cap is in good condition and replace if necessary (contact your supplier for spare parts) and screw the cap back on the machine.

If the water used has a hardness of over 10 French degrees (depending on product use,> 2 hours/day) water must be treated with special water softeners, these devices can reduce the calcium carbonate content of the water to below 4 French degrees to significantly improve the reliability of the steam generator. (For further details or to purchase a softener filter, please contact the manufacturer).

After cleaning, plug the power plug (1) back into the electrical socket and press the main switch (4) and buttons   . Remember to also activate the minimum steam button (31 on July and Radames) on the hand grip by pressing the safety button (30 on July and Radames or 83 on Geyser) to bleed out any air in the empty boiler. Wait for the recharge cycle to be completed (approximately 3 min.).

After completing boiler maintenance, proceed by following the instructions described in paragraph (h) of chapter 8.

It is advisable to completely empty the water tank (7) if the machine is to be left unused for a prolonged period of time.

9.2. Detergent pump reactivation (not available on Bacchus models)

The following procedure must be performed exclusively if no detergent is delivered from the accessory after topping up.

1) Switch on the appliance using only button  , button  must remain switched off.
2) Activate the steam button (31 on July and Radames), press and hold the detergent button (34 on July and Radames or 82B on Geyser) and press the steam delivery safety button (30 on July and Radames or 83 on Geyser) located on the hand grip and then act on the  button on the control panel to activate the detergent pump, hold this button down until detergent flows out of the accessory.
3) The detergent is now triggered, and the appliance is ready for use.

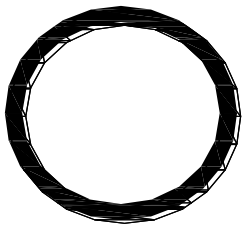
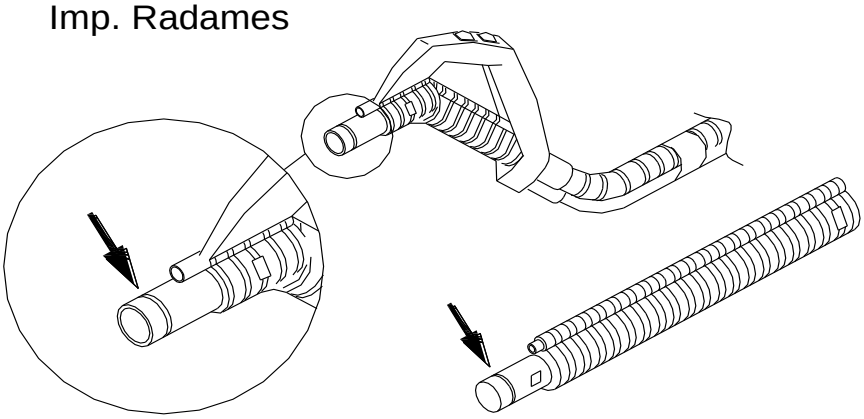
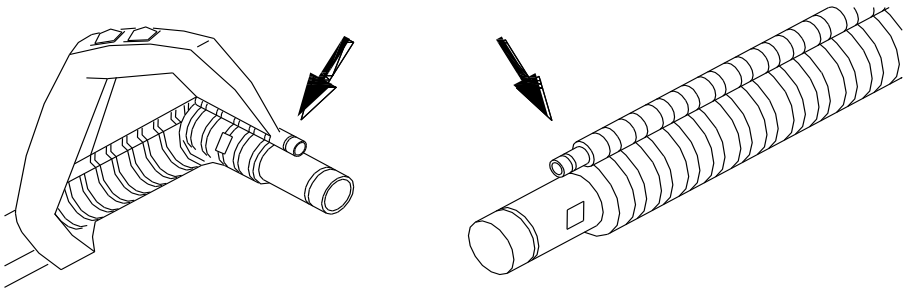
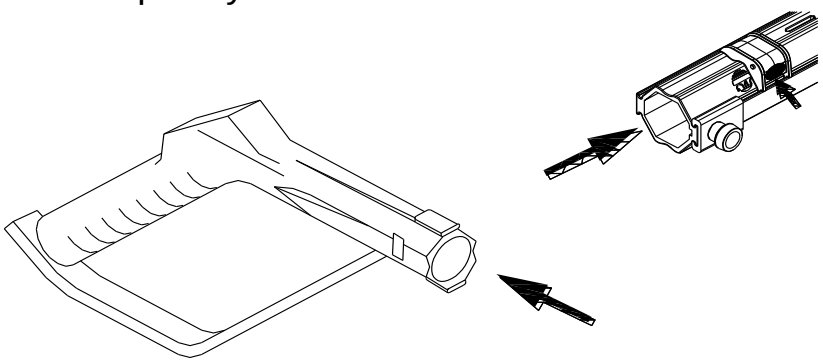
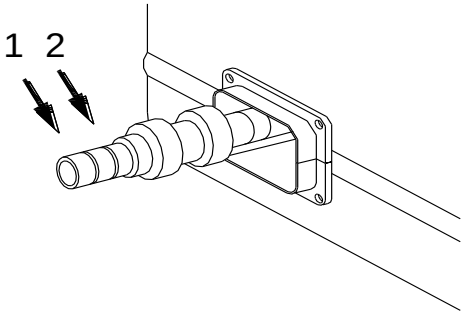
9.3. Filter maintenance

Remove the filter (3) inside the mains water coupling (2) by gripping the tab in the centre of the filter with a pair of pliers, then clean and replace.

Open the caps (10A) and (11A) and, if necessary, clean the filters (10B) and (11B) (using water). Place the caps with their filters back into respective seats, making sure that the gaskets are correctly positioned on the cap’s bottom.

9.4. Accessory Maintenance

Grease the joints of the extension pipes and accessories when required.

 PG5123 OR 29.82x2.62	Imp. Radames 
 PG51264 OR 6.75x1.78	Imp. Radames 
 PG5142 OR 9.25x1.78	Imp. July 
 1 - PG51428 2 - PG51004 OR 9.25x1.78	Generatore 

10. BEFORE CONTACTING THE TECHNICAL ASSISTANCE CENTRE

FAULT	POSSIBLE CAUSE	REMEDY
The machine is not producing steam and suction isn't working.	The power may be off. Safety devices have cut in.	Check that the power socket (1) is correctly inserted, that the main switch (4) is on and that the buttons  have been pressed.
The red “no water” light  comes on.	The water tank (7) is empty.	Add clean water to the water tank (7).
The detergent injection does not work.	The detergent tank (6) is empty. The boiler button  is off. The steam ready light  is off. There is air in the mixing circuit.	Top up the detergent in the tank. Press the “boiler” button (heating elements on). Wait for the “steam ready” light to come on (approx. 175°C) Reactivate the pump (see maintenance section 9.2).
No suction	A) Suction unit not powered. B) Suction hose clogged. C) Suction unit bin full of water.	A) Check that the switch (4) is on and that the plug (23) is correctly inserted in the socket (14). B) Clean the suction hose and accessory being used. C) Empty the suction unit bin.
Steam does not come out.	A) Boiler not yet under pressure (light  off). B) The steam button (31) is off. C) The safety button (30) has not been pressed.	A) Wait a few minutes. B) Activate the steam button (31). C) Press the safety button (30) to deliver steam.
Steam leaks out of the joints between the different accessories.	Check the wear on the o-ring seals.	Clean and lubricate the seals. If required, replace them with the spare parts supplied.
“ALL1” shown on the display.	Water filters blocked, incorrect power to the appliance, drainage cap missing.	Clean the water tank filter, check that the power voltage corresponds to the value indicated on the technical label. Replace the drainage cap.
“ALL2” shown on the display.	Temperature threshold exceeded, drainage cap missing, boiler under pressure after sludge draining.	Replace the drainage cap, bleed the air from the boiler using the steam switch on the steam gun supplied.
Flashing light  .	Mains water protection on.	Check the coupling (2) pressure and water. Remove and clean the filter (3) inside the mains water coupling. (see section 9.3).

A few drops of water leak out from the accessories.	When starting work condensation forms due to the difference in temperature between the steam and the accessories.	After using for a few minutes the problem disappears. If it persists, clean the boiler.
Noise inside the generator.	As it cools, after 6-7 hours the boiler creates an internal depression, which when switched back on causes vibrations.	Wait for the pressure to stabilise (2-3 minutes) and the noise stops.
The accessories don't fit perfectly.	The joints and snap-on couplings are dirty.	Clean and lubricate the joints on the accessories.

11. DECLARATION OF CONFORMITY

DICHIARAZIONE DI CONFORMITA'
(EC DECLARATION OF CONFORMITY)

TECNOVAP S.R.L. Via dei Sassi, 1A 37026 Pescantina Verona Italy
con la presente dichiara che:
la macchina per pulizia a vapore modello:
(Certifies that the steam cleaning machine model:)

Steam Box Vac Industrial – Steam Box Industrial BAcchus – Steam Box Industrial

Consultare l'etichetta tecnica posta sull'apparecchio relativamente al codice prodotto e numero di serie.
Refer to the technical label on the device/unit/steam generator for the product code and serial number

Risulta conforme alle specifiche delle direttive
(conforms to the specifications of directives)
2014/35/UE 2014/30/UE 2011/65/UE 2006/42/UE 2014/68/UE

Per il controllo della conformità alle sopraindicate direttive, sono stati seguiti i seguenti standard:
(For the checking of conformity to the above directives, the following standards have been used):

Riferimento alle norme armonizzate:
(Reference to harmonized standards):

EN 60335-1
EN 60335-2-2
EN 60335-2-69
EN 60335-2-79
EN 55014-1
EN 55014-2
EN 61000-3-2
EN 61000-3-3

Il fascicolo tecnico è stato emesso ed archiviato presso Tecnovap S.r.l. con sede in Via dei Sassi, 1a Pescantina (VR) Italy.
(The technical dossier was issued and filed at Tecnovap S.r.l. with registered office in Via dei Sassi, 1a Pescantina ,VR - Italy.)

PESCANTINA – VERONA (ITALY) 24-01-2023

Franchini Giuseppe
(Managing Director)

Routine Maintenance

Working Hours Generator	Frequency of intervention	Notes

Extraordinary Maintenance

Working hours Generator	Date of Maintenance	Description of maintenance, components replaced etc.

NOTES

THE MANUFACTURER RESERVES THE RIGHT OF TECHNICAL AND STRUCTURAL MODIFICATIONS

AS WELL AS IMPROVEMENTS WITHOUT PRIOR NOTICE.

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