



USER INSTRUCTION

CARMEN PLUS



CHECK OUT
the VIDEO-TUTORIAL



TECNOVAP
L'ARTE DEL VAPORE



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Dear Customer,

Congratulations for choosing this appliance.

With the aim of continuously improving and updating its range and offering increasingly innovative models, TECNOVAP has developed, designed and constructed CARMEN PLUS, a combined cleaning appliance which ties the steam power with the vacuuming force.

This product, with its steel body, is equipped with a reliable stainless-steel boiler with automatic refilling system which allows the production of a powerful and continuous steam flow (24 hours a day).

CARMEN PLUS is also equipped with a separate detergent tank for the injection of detergent at 90-160°C.

To the steam power, meaning ecological cleaning power, TECNOVAP has combined a powerful vacuum cleaner able to pick up solids and liquids.

CARMEN PLUS is the ideal solution when it comes to cleaning and disinfecting. With the various available accessories, you can clean, disinfect and remove the dirt, while eliminating entirely even the bacterial flora from the most hidden spots.

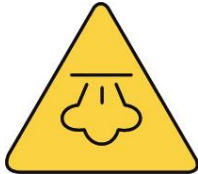
Pay careful attention to the following instructions which will be helpful in making the best use of your CARMEN PLUS.

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 to the subsequent owners. Before using the appliance for the first time, you must read the safety regulations given in this manual.

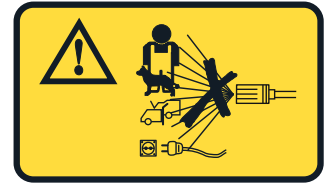
Any damage caused during transportation must be promptly notified to your retailer.



Warning!
Steam.... Danger of scalding



Warning!



Do no direct the steam jet against people, animals, electrical devices under tension or the unit itself



Read the operator manual



Danger of scalding!!
Wear protective gloves.

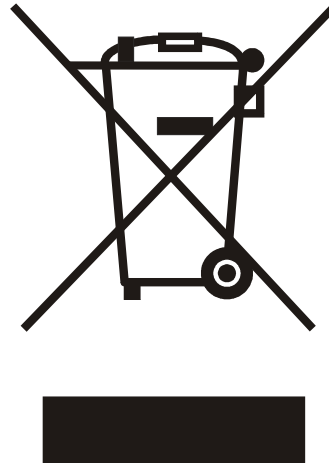


Equipment with sound pressure level > 85db
It is compulsory to use ears protective shrouds.

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.

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1. SAFETY REGULATIONS


















1.1 SAFETY DEVICES




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 should be replaced (by an authorized technical assistance center) every 2 years from the date of purchase.

PRESSURE SWITCH This appliance is equipped with a pressure switch able to check and maintain the pressure under certain preset limits (ref. “rated pressure” on the technical label underneath the machine). In case there would be a steam leakage on the lower side of the machine, it would mean that the functioning of this device has been compromised and the safety valve has been involved as to limit the boiler’s internal pressure. **It is in this case recommended not to use the appliance, immediately unplug it from the power feeding and call the service center.**

THERMOSTATS The appliance comes with 4 thermostats for the protection of overtemperature. Should the main control system result inefficient, these thermostats would entirely deactivate the boiler heating. In this case unplug the appliance from the power feeding and call the service center.

1.2 PRECAUTIONARY MEASURES TO BE FOLLOWED

-  The device must be kept upright during use and transport
-  Do not open or remove parts of the machine for any reason. Should the appliance have an operating fault or malfunction, do remove the power plug and contact an authorized technical assistance center or the point of sale where the appliance was purchased.
-  The connection of the appliance to the main power has to be done by a qualified electrician and has to be conform to the contents of the IEC 60364-1 norm.
-  If the power cable is damaged, it has to be replaced by the manufacturer or a technical assistance center, 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 checking device of the earth circuit.
-  Risk of explosion. Do not spray flammable liquids.
-  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.
-  Do not use the machine if there are persons standing within its range of action.
-  High-pressure jets can be hazardous if used improperly. Do not direct the jet towards persons, live electrical equipment or towards the appliance itself.
-  Do not direct the jet towards yourself or other persons to clean clothing or footwear.
-  Disconnect the main power by removing the plug from the power socket before carrying out any maintenance to the appliance.
-  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 children to make sure that they cannot play with the machine.
-  To ensure the safety of the appliance, do use only original spare parts supplied or approved by the manufacturer.
-  The hoses, accessories and couplings are very important for the safety of the appliance. Use only hoses, accessories and couplings recommended by the manufacturer.
-  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.
-  When using an extension cable, the plug and socket must be watertight.

-  Inappropriate extension cables may be hazardous.
-  Data relating to hand/arm vibrations, attributable to this appliance, are not mentioned as they are below 2,5 m/s².
-  The detergent injection of this appliance can't be used continuously but intermittently (20 seconds ON - 20 seconds OFF). The detergent can be continuously used for no longer than 2 minutes. This appliance has been conceived to be used with a detergent provided or recommended by the manufacturer. The use of other detergents or chemical substances could endanger the safety of the operator as well as from the appliance itself.

When using detergent (make sure it's non-foaming) please follow the specific instructions on the original packaging: normally 1 litre of detergent for every 10 litres of water (detergent percentage of about 10%), making sure to fill in first the detergent to obtain a better mixing.

Please be very careful with the detergent to be used, as some available in commerce will emanate highly toxic gases when heated above 100°C and thus taken to gaseous state. Do always check the MSDS datasheet of the product and consult your supplier.

In case of accidental contact with the detergent, strictly follow the instructions indicated on its packaging or in its MSDS.

2. TECHNICAL FEATURES

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

Model		Carmen Plus		
Code		STANDARD	INOX	REG. POTENZA
		P130060	P13006I	P13006ITS
		PH30060	PH3006I	PH3006ITS
Rated Voltage	V	230		
Current type	Hz	50/60		
Rated Power Boiler	kW	3.6		3.6 / 2.4
Max Rated Power	kW	3.65		
Rated Steam Pressure	kPa	600		
	bar	6		
Permissible Steam Pressure	kPa	750		
	bar	7.5		
Max. Steam Rated Flow	g/min	97		
Max. Steam Rated Flow	Kg/h	5.9		
Max temperature	°C	165		
Kickback forces	N	< 20		
Vibration hand-arm	m/s ²	< 2,5		
Mass	kg	33		

3. NOMENCLATURE – Carmen Plus – Carmen Plus Inox

01) Vacuum cleaner motor head	16) Small basket for trolley
02) Vacuum cleaner power switch	17) Big basket for trolley
02A) Vacuum cleaner filter	18) Trolley handlebar
03) Clamping hooks for vacuum drum	19) Detergent tank
04) Vacuum drum (5.5 – 7.5 litres)	20) Water tank
05) Locking latch vacuum outlet	21) Detergent tank cap (yellow)
06) Vacuum hose outlet	22) Water tank cap (blue)
07) Vacuum cleaner power cord	25) Electric socket for vacuum cleaner
08) Main power switch	26) Power cord with plug
09) Control panel	27) Steam outlet with cover
	28) Boiler drain cap

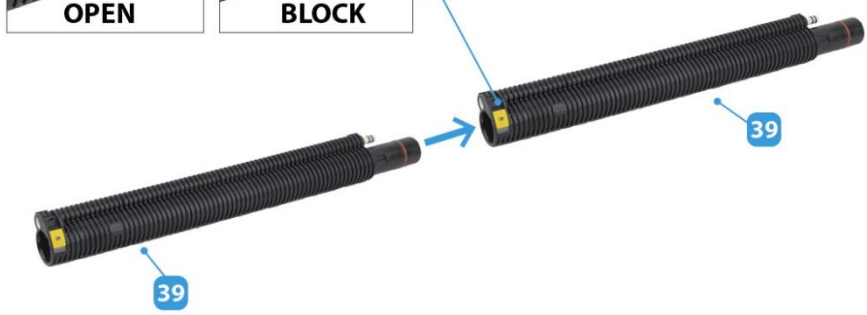
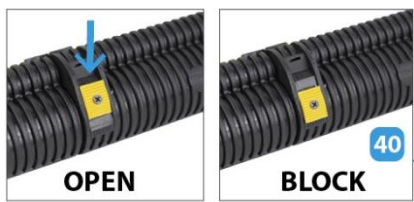
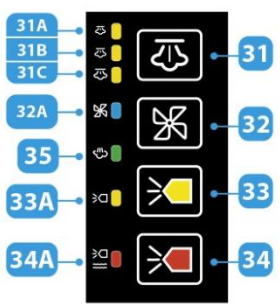


3.1 NOMENCLATURE – Radames accessories

30) "Release" button/lever	39) Extension tube
30A) Blocking switch of the release button/lever	40) Locking latch
31) Steam command switch	43) Nylon brush (Ø 28mm)
31A, 31B, 31C) Steam indicator MIN/MED/MAX	44) Brass brush (Ø 28mm)
32) "Vacuum" switch	45) Stainless steel brush (Ø 28mm)
32A) "Vacuum" indicator	46) Triangular brush
33) "Detergent" switch (intermittent)	47) Steam plunger
33A) "Detergent" indicator	48) Steam scraper
34) "Superheated Water" switch (optional)	49) Nylon brush (Ø 60mm)
34A) "Superheated Water" indicator	50) Stainless steel wool pad
35) "Steam ready" indicator	76) Steam/vacuum lance
36) Steam & vacuum hose with handgrip	77) Floor tool for inserts
37) Steam plug	78) Locking latches for inserts
37A) Locking latch steam plug	79) Insert squeegee/brush
38) Vacuum plug	80) Insert squeegee/squeegee

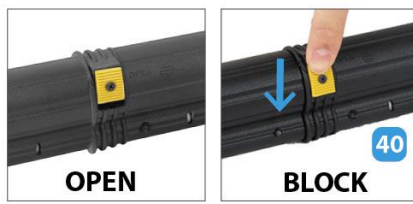


Optional H2O



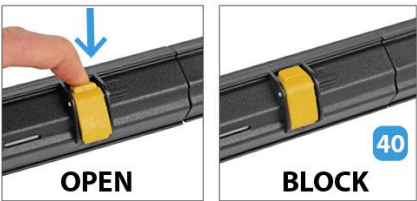
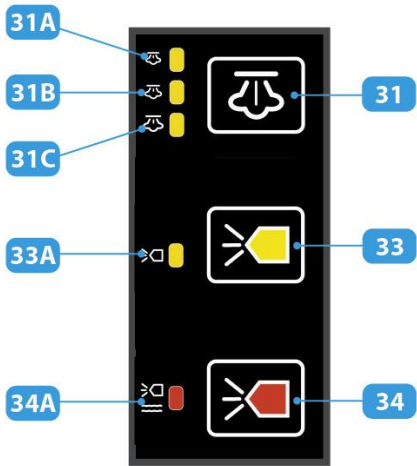
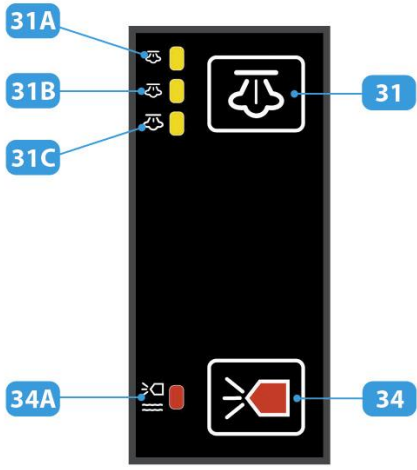
3.2 NOMENCLATURE – Star accessories

30) "Release" button/lever	37A) Locking latch steam plug
30A) Blocking switch of the release button/lever erogazione	38) Vacuum plug
31) Steam command switch	39) Extension tube
31A, 31B, 31C) Steam indicator MIN/MED/MAX	40) Locking latch
32) "Vacuum" switch	43) Nylon brush (Ø 28mm)
32A) "Vacuum" indicator	84) 300 mm brush inserts
33) "Detergent" switch (intermittent)	84A) squeegee
	85) Steam/vacuum nozzle
33A) "Detergent" indicator	86) 145 mm brush insert 86A) squeegee insert
34) "Superheated Water" switch (optional)	87) Window cleaner
34A) "Superheated Water" indicator	88) Steam lance
35) "Steam ready" indicator	89) Vacuum nozzle
36) Steam & vacuum hose with handgrip	
37) Steam plug	

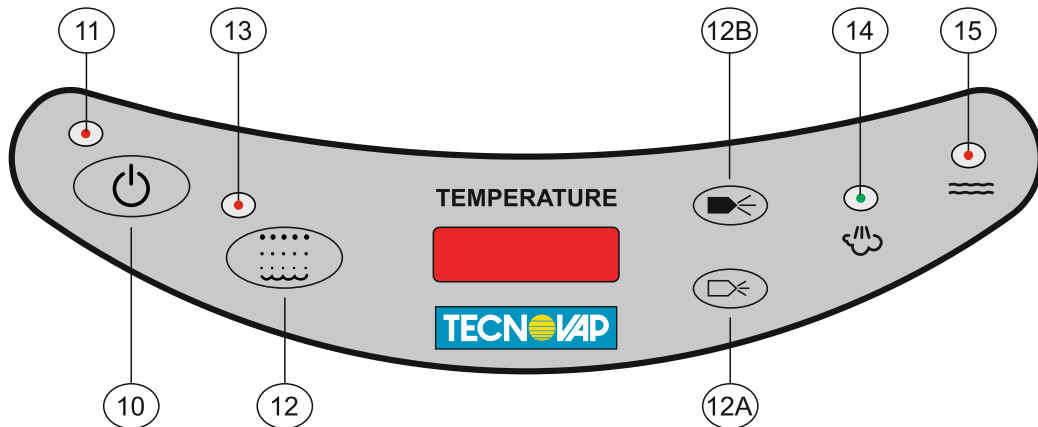


3.3 NOMENCLATURE – July accessories

30) "Release" button/lever	43) Nylon brush (Ø 28mm)
30A) Blocking switch of the release button/lever	44) Brass brush (Ø 28mm)
31) Steam command switch	45) Stainless steel brush (Ø 28mm)
31A, 31B, 31C) Steam indicator MIN/MED/MAX	46) Triangular brush
33) "Detergent" switch (intermittent)	47) Steam plunger
33A) "Detergent" indicator	48) Steam scraper
34) "Superheated Water" switch (optional)	49) Nylon brush (Ø 60mm)
34A) "Superheated Water" indicator	50) Stainless steel wool pad
36) Steam hose	71) Steam lance
37) Steam plug	72) Rectangular brush
37A) Locking latch steam plug	73) Locking latch
39) Extension tube	74) Triangular brush
40) Locking latch	75) Window cleaner



CONTROL PANEL FUNCTIONS



(10) "Power / Standby" button

Activates/disactivates the electrical part, the solenoid valves for steam, the refilling pump of the boiler.



(11) "Power / Standby" indicator

Indicating if the appliance is in power or standby mode.



(12) "Boiler" button

Activates/disactivates the heating elements and the solenoid valves for "superheated water".



(12A) "Detergent decrease regulation" button -

Decreasing the detergent flow.



(12B) "Detergent increase regulation" button +

Increasing the detergent flow.



(13) "Boiler ON" indicator

Indicating that the boiler is switched on.



(14) "Steam Ready" indicator

Indicating that the steam generator is ready for use.



(15) "Low Water" indicator

Indicating lack of water in the water tank: blinking with simultaneous intermittent acoustic signal.

4. USING INSTRUCTIONS



(a) After opening the packaging box, insert the main handlebar (18) onto the trolley base and block into place by inserting the big basket (17) into the bottom holes of the handlebar. Then insert the small basket (16) into the top holes of the handlebar.

(b) Put the vacuum drum (4) as well as the vacuum motor head (1) into place and fix them with the provided clamping hooks (3).

(c) Insert the plug (7) into the electric socket (25) located behind the machine and verify that the vacuum power switch (2) on the vacuum head (1) is in ON position.



(d) Remove the tanks caps (21 and 22), fill in **softened water** (max. 3 liters) in the water tank (20) (blue funnel) and fill in the appropriately diluted detergent (max. 3 liters) in the detergent tank (19) (yellow funnel). **Please do fill the water tank exclusively with softened water, any other liquid could damage or make the equipment unsafe. It is also recommended to be very careful during this process because an inverted filling up (detergent into the water tank or water into detergent tank) causes a steam generator fault.**



(e) When using detergent (non-foaming, for suction equipment), please follow the specific instructions reported on original packaging: normally 1/3 litre detergent for every 3 litres water (detergent percentage of about 10%), making sure to fill in first the detergent to obtain a better mixing.

(f) **Please be very careful with the detergent to be used, as some available in commerce will emanate highly toxic gases when heated above 100°C and thus taken to gaseous state. Do always check the MSDS datasheet of the product and consult your supplier.**

The detergent tank has to be filled only with detergent diluted in water, **not with water only**, unless you are using demineralized water.

The usage of water only (not demineralized water) in the detergent tank, instead of detergent, causes faults to the mixing circuit.

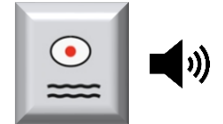
(g) Insert the plug (26) into an electrical socket, making sure that the voltage and the amperage correspond with the data printed on the plate located near the handlebar on the machine.

(h) Switch the unit on by using the main power switch (8) and activate the “Power / Standby” (10) and the “Boiler” (12) buttons.



⚠ WARNING

Once the water tank is empty, the red “Low Water” indicator (15) will switch on followed by an intermittent acoustic signal.

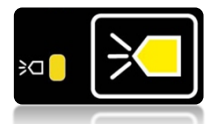


In this case refill the water tank (20) and reactivate the device by pressing the “Boiler” button (12) to confirm (the blinking button will highlight the need of confirmation).



USING INSTRUCTIONS OF DETERGENT:

The detergent release is activated by the “Detergent” switch (33). This function has to be operated at intervals (i.e. 20 seconds ON, 20 seconds OFF).

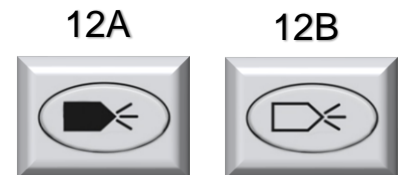


Warning!! Do never exceed the indicated times as it would cause an overheating of the pump.

DETERGENT REGULATION:

It is possible to regulate the detergent flow by using the 2 following buttons:

- To decrease the detergent release press the button (12A);
- To increase the detergent release press the button (12B).



REFILLING OF DETERGENT:

Once the detergent tank is empty, proceed as following:

1. Refill the detergent tank (19) with diluted detergent.
2. Activate the “Detergent” switch (33) and activate the “Release” button/lever (30) until detergent comes out from the tool.



3. Detergent release has been triggered, the appliance is now ready for use again.

PRESSURE VISUALIZATION

With the unit being switched ON, press and keep the “Boiler” button (12) pressed. After some seconds the display will show the value (in bar) of the pressure inside the boiler. This data will remain visible on the display for 10 seconds, afterwards the temperature value (in °C) will appear again.



HOUR COUNTERS

The device is equipped with 2 hour counters, one resettable by the user (partial hour counter) and one non resettable indicating the total working hours of the appliance.

To visualize the hour counters, switch the device OFF by using the “Power / Standby” button (10). The wording “OFF” has to appear on the display.

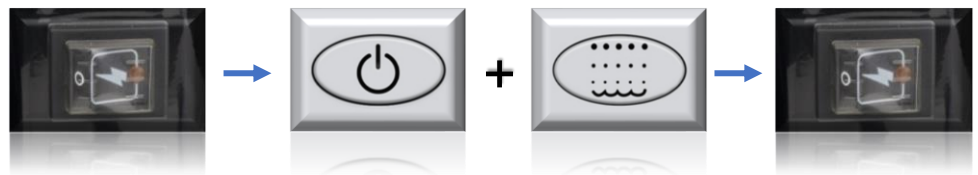


Press the “Boiler” button (12) to see the total working hours. On the display will appear the wording “C1” and subsequently the total working hours. Press again the “Boiler” button (12), the wording “C2” will appear on the display and the partial working hours.



RESET OF THE PARTIAL HOUR COUNTER

Switch the device OFF by using the main power switch (8) located in the front of machine, press both the “Power / Standby” (10) and the “Boiler” (12) buttons and keep them pressed, switch the device ON by using the main power switch (8). The LED indicators on the control panel (9) will blink intermittently to indicate the resetting of the partial hour counter “C2”.



POWER SAVE MODE

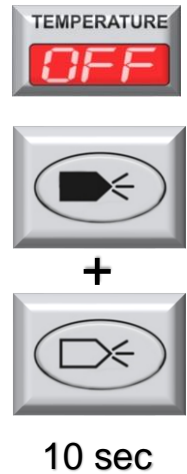
The power save mode permits to reduce the unit’s consumption after 1 hour of inactivity. For activating or deactivating such mode it is enough to switch off the generator by pressing and holding for 10 seconds the “Power / Standby” button (10). The display will show alternately T-ON or T-OFF depending on the previously selected setting.



CHANGING THE BOILER POWER 2,4KW-3,6KW (OPTIONAL)

With the appliance switched off (“OFF” is visualized on the display) keep simultaneously pressing both detergent regulation buttons (12A) and (12B) during 10 seconds.

With each contemporary pressure of these buttons, the wordings “P3.6” and “P2.4” will appear alternatively on the display. By selecting “P.3.6” the boiler output will be of 3,6KW, while by selecting “P.2.4” it will be of 2,4KW.

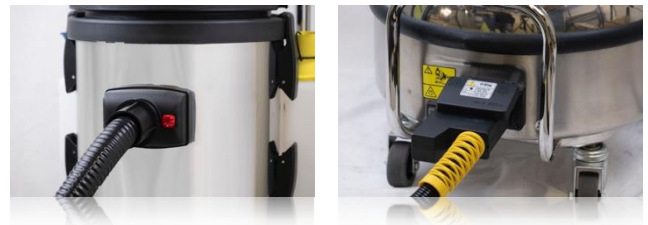


4.1 OPERATING CARMEN PLUS WITH THE RADAMES & STAR HOSES

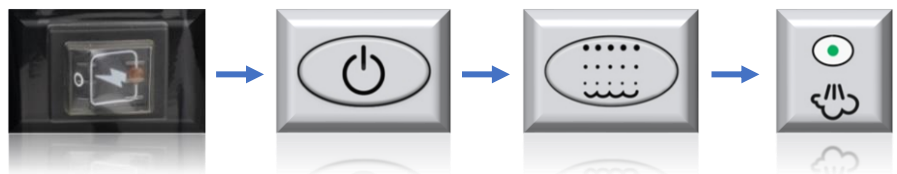
Warning!!

It is recommended to switch off the steam generator before connecting the steam hose to the steam outlet.

Insert the vacuum plug (38) into the vacuum hose outlet (6) on the vacuum cleaner and the steam plug (37) into the steam outlet (27) on the steam generator. Push until the latches (5 and 37A) lock into place.



Activate the main power switch (8), the “Power / Standby” button (10) and the “Boiler” button (12) for the production of steam and wait approx. 4 minutes until the indicator “Steam Ready” (14) lights up indicating the presence of steam inside the boiler. On the hand grip the “Steam Ready” indicator (35) will also light up.



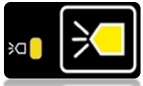
Activate the steam command switch (31) on the handgrip to regulate the steam flow (with each switching ON of the device the steam flow is always deactivated and the LED on the handgrip will blink alternately to indicate the need of desired steam flow selection). After selection, the LED indicator will confirm the selected steam flow as follows: switch (31A) : MINIMUM steam, switch (31B): MEDIUM steam, switch (31C): MAXIMUM steam.

Use the steam “Release” button/lever (30) to activate steam flow.

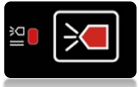
With the blocking switch (30A) it is possible to block the “Release” button/lever’ (30).



The “Vacuum” switch (32) activates the vacuum cleaner and can be used simultaneously with steam.



The “Detergent” switch (33) enables you to inject detergent to the steam, and has to be activated only for a few seconds at a time to avoid excess liquid with the steam.



For models with the function of superheated water injection, please refer to what above indicated activating the “Superheated Water” switch (34).

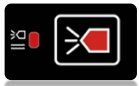
The activation of the vacuum, the detergent and the superheated water switches is highlighted on the handgrip with the referring indicators (32A, 33A, 34A).

Both “Detergent” and “Superheated Water” injection functions have to be activated at intermittence (for ex. 20 seconds ON - 20 seconds OFF); both functions have not to be used in continuous duty.

Detergent injection or superheated water injection (optional) are possible only if at least one steam command switch is activated and if the “Steam Ready” indicator (14) is on.



⚠ Warning!!



By activating the “Superheated Water” switch (34) you will get a superheated water jet under pressure which, according to the model of the appliance, can reach a temperature of 180°C. Please be very careful that this switch is not pressed inadvertently and that the jet is never directed towards people or animals.

To combine steam cleaning with the injection of detergent or of superheated water and with vacuum suction, choose the best suited tool and mount it after having previously switched off the device:

4.2 OPERATING CARMEN PLUS WITH RADAMES ACCESSORIES



77): with appropriate inserts (79 or 80). Inserts are locked
latches (78) towards inside (OPEN position), pressing them
as towards outside (BLOCK position).



OPEN



BLOCK

Then attach the floor tool directly on the hand grip or on 1 or 2 extension tubes (39) as desired and fix everything



BLOCK

together by pushing the locking latches (40) in BLOCK
position. Remember that the indicators (32A, 33A, 34A) on
the handgrip must be switched off or blinking (31A, 31B, 31C)
until the end of this procedure.

Steam/vacuum lance (76): to be used by itself or together with the small round brushes
(43-46, 49), or the steam plunger (47), or the steam scraper (48) according to the
cleaning job to be done.

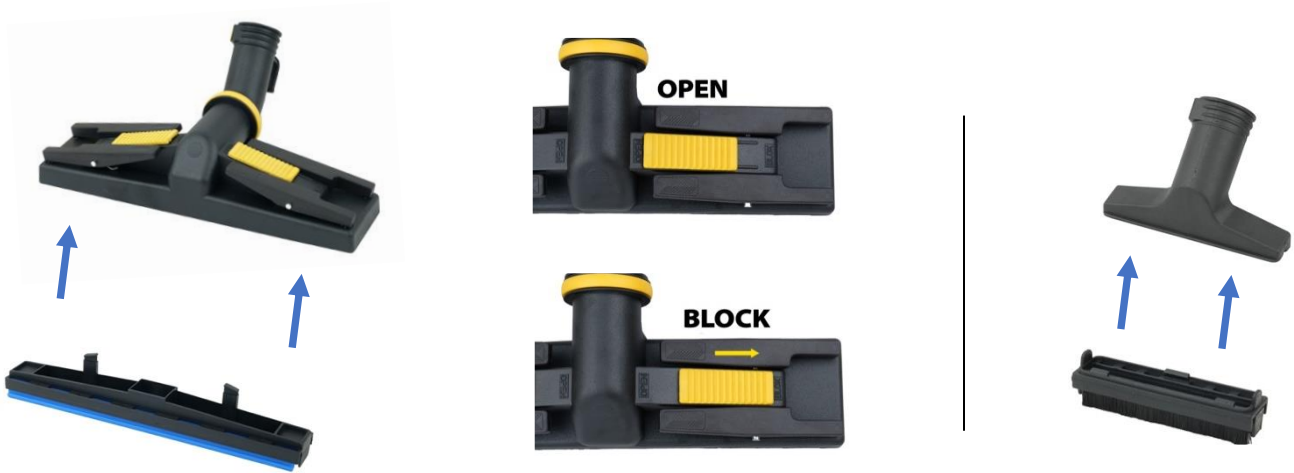
To use this lance, please do follow the same above indicated instructions as for the
floor tool.



Once the cleaning is finished it is recommended to vacuum approx. 3-5 litres of clean water to rinse the inside of
the hose (36) and the suction conduits. Wash and dry all the used tools. Remove the vacuum drum (4) and, after
emptying and rinsing it, let it dry before storing it away.

4.3 OPERATING CARMEN PLUS WITH STAR ACCESSORIES

To combine steam cleaning with the injection of detergent or of superheated water and with vacuum suction, choose the best suited tool and mount it after having previously switched off the device:



The multi-purpose floor tool (83): with appropriate inserts (84). Inserts are locked into place by sliding the latches (78) towards inside (OPEN position), pressing them upwards, then sliding the latches towards outside (BLOCK position).



Then attach the floor tool directly on the hand grip or on 1 or 2 extension tubes (39) as desired and fix everything together by pushing the locking latches (40) in BLOCK position. Remember that the indicators (32A, 33A, 34A) on the handgrip must be switched off or blinking (31A, 31B, 31C) until the end of this procedure.

Steam lance (88): to be used by itself or together with the small nylon brush (43).

To use this lance, please do follow the same above indicated instructions as for the floor tool.



Once the cleaning is finished it is recommended to vacuum approx. 3-5 litres of clean water to rinse the inside of the hose (36) and the suction conduits. Wash and dry all the used tools. Remove the vacuum drum (4) and, after emptying and rinsing it, let it dry before storing it away.

4.4 OPERATING CARMEN PLUS WITH JULY HOSE

Warning!!

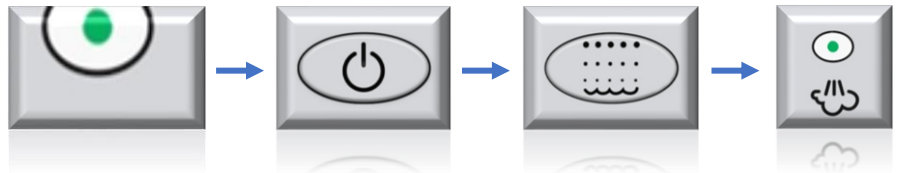
It is recommended to switch off the steam generator before connecting the steam hose to the steam outlet.

Insert the steam plug (37) into the steam outlet (27) on the steam generator.

Push until the latches (5 and 37A) lock into place.



Activate the main power switch (8), the “Power / Standby” button (10) and the “Boiler” button (12) for the production of steam and wait approx. 4 minutes until the indicator “Steam Ready” (14) lights up indicating the presence of steam inside the boiler. On the hand grip the “Steam Ready” indicator (35) will also light up.



Activate the steam command switch (31) on the handgrip to regulate the steam flow (with each switching ON of the device the steam flow is always deactivated and the LED on the handgrip will blink alternately to indicate the need of desired steam flow selection). After selection, the LED indicator will confirm the selected steam flow as follows: switch (31A) : MINIMUM steam, switch (31B): MEDIUM steam, switch (31C): MAXIMUM steam.

Use the steam “Release” button/lever (30) to activate steam flow.

With the blocking switch (30A) it is possible to block the “Release” button/lever’ (30).



The “Detergent” switch (33) enables you to inject detergent to the steam, and has to be activated only for a few seconds at a time to avoid excess liquid with the steam.



For models with the function of superheated water injection, please refer to what above indicated activating the “Superheated Water” switch (34).

The activation of the vacuum, the detergent and the superheated water switches is highlighted on the handgrip with the referring indicators (32A, 33A, 34A).

Both “Detergent” and “Superheated Water” injection functions have to be activated at intermittence (for ex. 20 seconds ON - 20 seconds OFF); both functions have not to be used in continuous duty.

Detergent injection or superheated water injection (optional) are possible only if at least one steam command switch is activated and if the “Steam Ready” indicator (14) is on.



Warning!!



By activating the “Superheated Water” switch (34) you will get a superheated water jet under pressure which, according to the model of the appliance, can reach a temperature of 180°C. Please be very careful that this switch is not pressed inadvertently and that the jet is never directed towards people or animals.

To combine steam cleaning with the injection of detergent or of superheated water and with vacuum suction, choose the best suited tool and mount it after having previously switched off the device:

4.5 OPERATING CARMEN PLUS WITH JULY ACCESSORIES

To combine steam cleaning with the injection of detergent or of superheated water, choose the best suited tool and mount it after having previously switched off the device:



Attach the steam lance (71) directly onto the hose or on 1 or 2 extension tubes (39) as desired and lock into place by sliding the locking latches (40) first in OPEN position and then in BLOCK position.



Same mounting procedure for the rectangular brush (72) or the triangular brush (74) which can be covered with an absorbing cloth/sponge by using the provided gripper (73) to hold the cloth into place.

This is above all recommended to clean delicate surfaces (i.e. precious wood) or vertical areas (i.e. tiles). In this case, the cloth is acting as “dirt extractor”.



5. MAINTENANCE

5.1 DISCHARGE OF BOILER SLUDGE AND SCALE DEPOSITS

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 while showing the wording "CALC" alternately with the temperature on the display.

When this warning is displayed, the machine can in any case be used until the started cleaning operation has been completed.

⚠ WARNING: THE BOILER CLEANING ABSOLUTELY HAS TO BE CARRIED OUT WHEN COLD (i.e. GENERATOR SWITCHED OFF FOR AT LEAST 5 HOURS). THE APPLIANCE HAS TO BE DISCONNECTED FROM POWER SUPPLY SINCE AT LEAST 5 HOURS BEFORE INTERVENTION AND DURING THE WHOLE MAINTENANCE PERIOD.

It is essential to follow the above described procedure to make sure that there is no steam under pressure left inside the device.



Place a suitably sized basin under the appliance to collect the drainage water from the boiler, remove the drainage cap (28) underneath with the provided key, then wait for the boiler to be completely empty (once the tap was removed, the water outflow could be slow and difficult; in that case clean the drain tube of the boiler from incrustations so to get an unobstructed outflow).

lean any dirt off the cap (28) with running water, check that the seal on the bottom of the cap is in good condition, replace if necessary (contact your supplier for spare parts).

Then screw the cap back on the machine and check carefully that it has been screwed on correctly.

To cancel the maintenance warning "CALC" on the display, insert the power cable (26) into the power socket and switch on the main power switch (8). The wording "OFF" has to appear on the display. Press and keep the "Boiler" button (12) pressed until the wording "CLR" will appear on the display.



The boiler cleaning is done. Insert the power cable (05) back into the power socket, refill entirely the water tank (20) with water and activate the "Boiler" switch (12) to return to normal use of the appliance.

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

5.2 MAINTENANCE VACUUM CLEANER

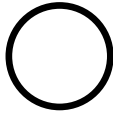

Verify occasionally the filter cleanliness (2A) and remove eventual deposits.



5.3 MAINTENANCE ACCESSORIES

Lubricate occasionally the joints of the extension tubes and accessories.



	RADAMES
PG5123	
OR 29.82X2.62	

	RADAMES / STAR
PG5116	
OR 6.75x1.78	

	STAR
PG53903	
OR 26.7x1.78	

	JULY / GENERATOR
PG5142	
OR 9.25x1.78	

6. BEFORE CONTACTING THE SERVICE CENTER

INCONVENIENTE	CAUSA POSSIBILE	RIMEDIO
The generator does not produce steam and the vacuum cleaner does not work.	It could be a lack of power.	Make sure that the plug (26) is well inserted in the power socket and that the main switch of the building is activated.
The red "Low water" indicator (15) lights up.	All the water from the water tank (20) has been consumed.	Refill the water tank (20) with clean water.
There is no injection of detergent.	All the detergent from the detergent tank (19) has been consumed.	Check the level in the detergent tank (19). If necessary, refill the detergent tank (19) with diluted detergent.
Suction power is missing.	A) Lack of power to the vacuum cleaner. B) The vacuum hose is obstructed. C) The vacuum drum (4) is full of water.	A) Make sure that the switch (2) is in ON position and that the plug (7) is well inserted into the socket (25). B) Clean the vacuum tube and the accessory in use. C) Empty the vacuum drum (4).
Steam does not come out.	A) Boiler has not reached yet the operational pressure: indicator (14) is off. B) Steam command switch  (31) is in OFF position. C) Steam "Release" button/lever (30) has not been activated.	A) Wait a few minutes. B) Switch ON the steam command switch  (31). C) Use the steam "Release" button/lever (30) to activate the steam flow.
Water leaks through the connections of the accessories.	Check the wear of the O-rings.	Clean and lubricate the O-rings. If necessary, substitute them with the spares supplied.
Visualization of "ALL2" on the display.	Temperature exceeded the threshold, drain cap not inserted, boiler under pressure after the mud draining.	Insert the drain cap, discharge the air inside the boiler by activating the steam switch on the handgrip.
Drops of water come out of the accessories.	At beginning of work, due to the temperature difference between steam and accessories, water condenses in the tubes and tools.	After a few minutes of use this problem will cease. If it continues, proceed to the boiler cleaning.
Noise inside the generator.	After cooling down (6-7 hours), an internal depression is created inside the boiler, which causes vibrations with each new ignition.	Wait for the pressure to be stabilized inside the boiler (about 2-3 minutes), the noise will disappears.
The accessories do not fit perfectly.	Dirt has deposited on the O-rings and the locking latches (40).	Clean and lubricate the joints of the accessories.

7. 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:)

Carmen Plus – Carmen Plus Inox

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

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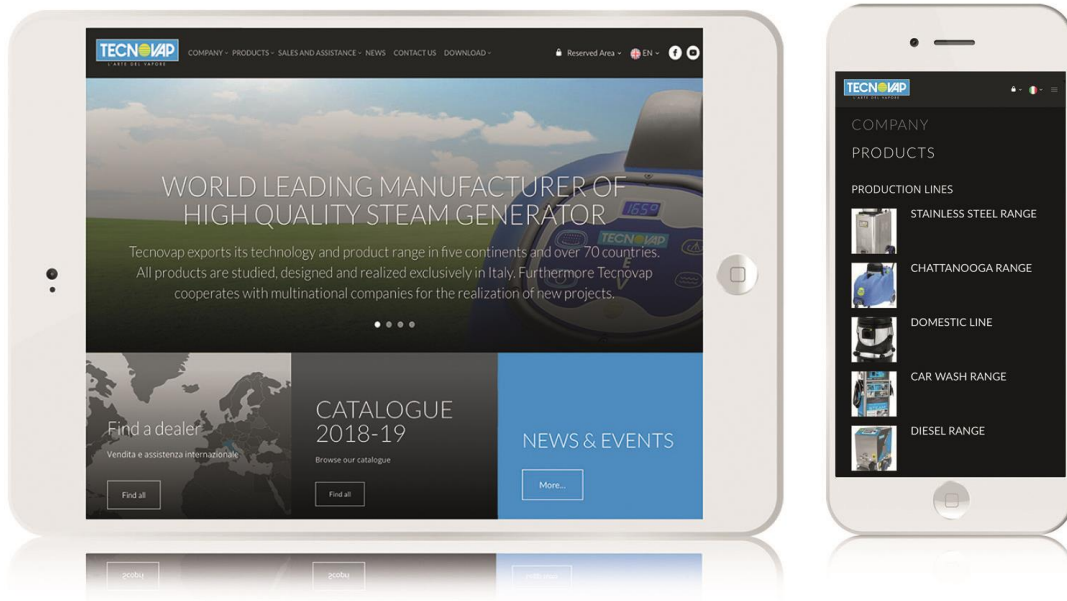
PESCANTINA – VERONA (ITALY) 24-01-2023


Franchini Giuseppe
(Managing Director)



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