



USER INSTRUCTION

# JUNIOR STAR MAX



**TECNOVAP**

L'ARTE DEL VAPORE



TECNOVAP S.R.L. - Via dei Sassi 1/a, 37026 Pescantina, Verona - Italy

+39 045 67 67 252

sales@tecnovap.com / info@tecnovap.com

www.tecnovap.it



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 **JUNIOR STAR MAX**, a combined cleaning appliance which brings you the power of steam and the energy of suction.

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.

**JUNIOR STAR MAX** is also equipped with a separate detergent tank for injecting detergent at 90-160°C and a overheated water injection system (optional).

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.

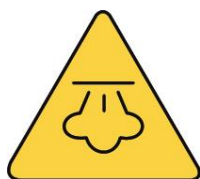
**JUNIOR STAR MAX** is the perfect solution for cleaning and disinfecting. With the various accessories available, it cleans, disinfects, and removes dirt eliminating completely even the bacterial flora hidden in those areas most difficult to reach..

## 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.**

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

## TABLE OF CONTENTS

1. RISK PREVENTION
2. TECHNICAL FEATURES
3. NOMENCLATURE
4. USER INSTRUCTIONS
5. MAINTENANCE
6. BEFORE CONTACTING THE TECHNICAL ASSISTANCE CENTRE
7. DECLARATION OF CONFORMITY

### 1. RISK PREVENTION



















#### 1.1 SAFETY COMPONENTS

**SAFETY VALVE** This machine is equipped with two safety valves, able to ensure the safety of the machine itself in case other primary control devices are inefficient (due to a failure). Due to the extreme importance of these components and as not to compromise the safety of the machine, it is recommended to provide to check them and to substitute them through an authorized service center every 2 years starting from the purchasing date.


**PRESSURE SWITCH** This machine is equipped with a pressure switch able to check and to 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 means 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 recommended not to use the machine, immediately unplug the machine from the power feeding and call the service center.**

**THERMOSTATS.** The unit is equipped with thermostats able to control the overtemperature. In case the main control system becomes inefficient, they would intervene permanently by deactivating the boiler heating. If this occurs, disconnect the power plug and contact a service center.

## 1.2 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, 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.
-  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 any persons standing within the radius 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 mains power by removing the plug from the power socket, before carrying out any maintenance.
-  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.
-  To ensure the safety of the appliance, 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.


 The data concerning hand/arm vibrations are not mentioned for this appliance, as they are less than 2.5 m/s<sup>2</sup>.

 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. 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.

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.**

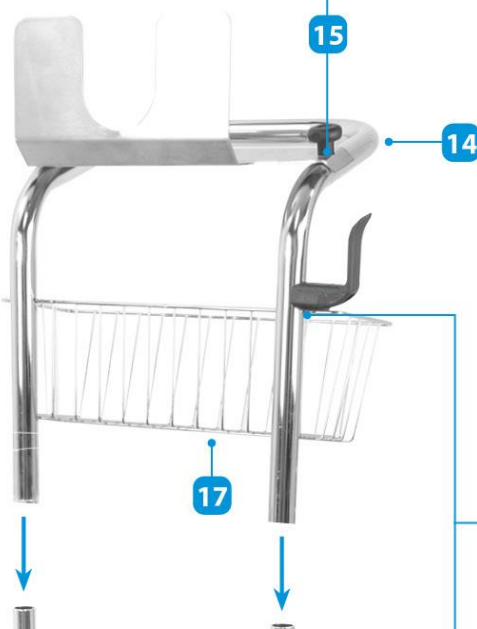
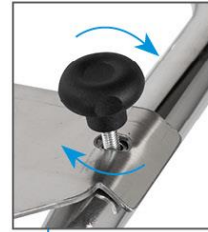
In the event of accidental contact with the detergent used, strictly follow the instructions given on the package and the relative safety data sheet.

 Wear gloves when using the appliance.

## 2. TECHNICAL FEATURES

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

Model		6 bar		8 bar	
Code		1130061	1H30061	1130081	1H30081
Rated Voltage	V	230			
Current type	Hz	50/60 1~			
Rated Power Boiler	kW	3.60			
Rated Power vacuum	kW	1.20			
Max Rated Power	kW	3.65			
Rated Steam Pressure	kPa	600		800	
	bar	6		8	
Permissible Steam Pressure	kPa	750		1000	
	bar	7.50		10	
Max. Steam Rated Flow	g/min	97			
Max. Steam Rated Flow	Kg/h	5.9			
Max temperature	°C	165°		174°	
Max. inlet water pressure	KPa				
	bar				
Min. inlet water pressure	KPa				
	bar				
Kickback forces	N	< 20			
Vibration hand-arm	m/s <sup>2</sup>	< 2,5			
Sound pressure level L <sub>Pa</sub>	dB	< 70			
Sound power level L <sub>wa</sub>	dB	< 70			
Mass	Kg	45			

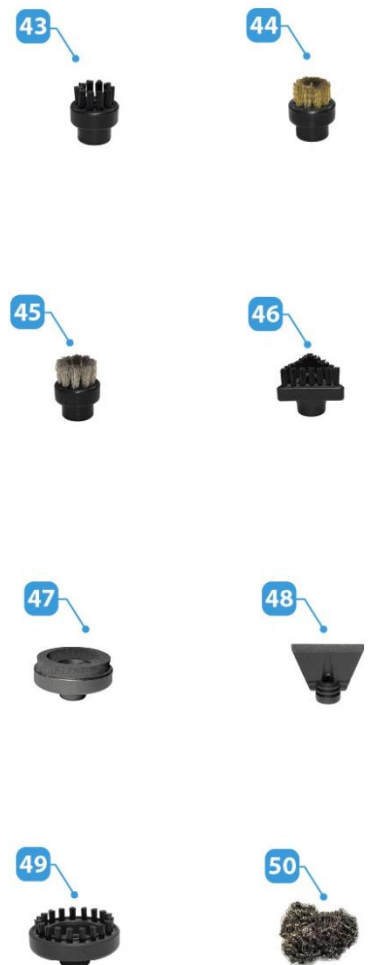
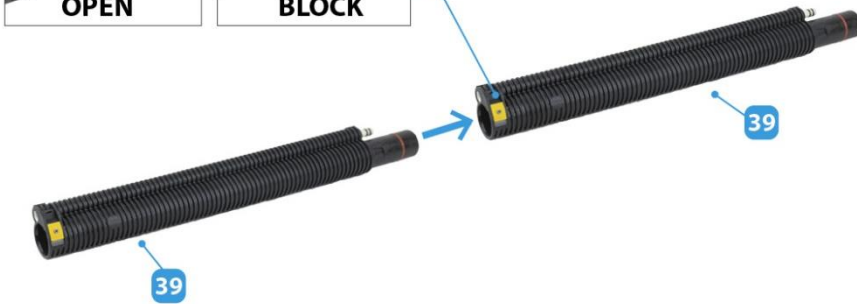
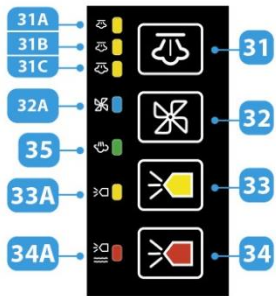


### 3. NOMENCLATURE – Junior Star Max

- |   |                                    |
|---|------------------------------------|
| 1) Suction unit motor head              | 17) Basket for accessories - small |
| 2) Main suction unit switch             | 18) Boiler drainage cap            |
| 3) Suction unit motor fastening catches | 19) Power cable                    |
| 4) Suction unit bin                     | 20) Control panel                  |
| 5) Hose coupling safety clamp           | 20A) "Stand-by" button             |
| 6) Female suction hose coupling         | 20B) "Stand-by" indicator          |
| 7) Suction unit power cable             | 20C) "Boiler on" button            |
| 8) Suction unit coupling                | 20D) "Boiler on" indicator         |
| 9) Detergent tank cap (yellow)          | 20E) Pressure / temperature button |
| 10) Water tank cap (blue)               | 20F) "Steam ready" indicator       |
| 13) Carrying handle                     | 20G) Minimum steam indicator       |
| 14) Manoeuvring handle                  | 20H) Medium steam indicator        |
| 15) Fixing screws (20 mm)               | 20L) "Low water" indicator         |
| 16) Basket for accessories – big        | 21) Main switch                    |
|   | 22) Steam coupling                 |

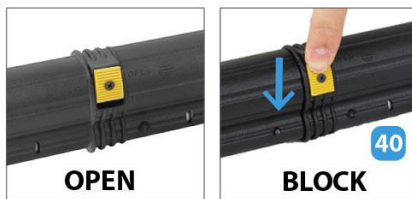
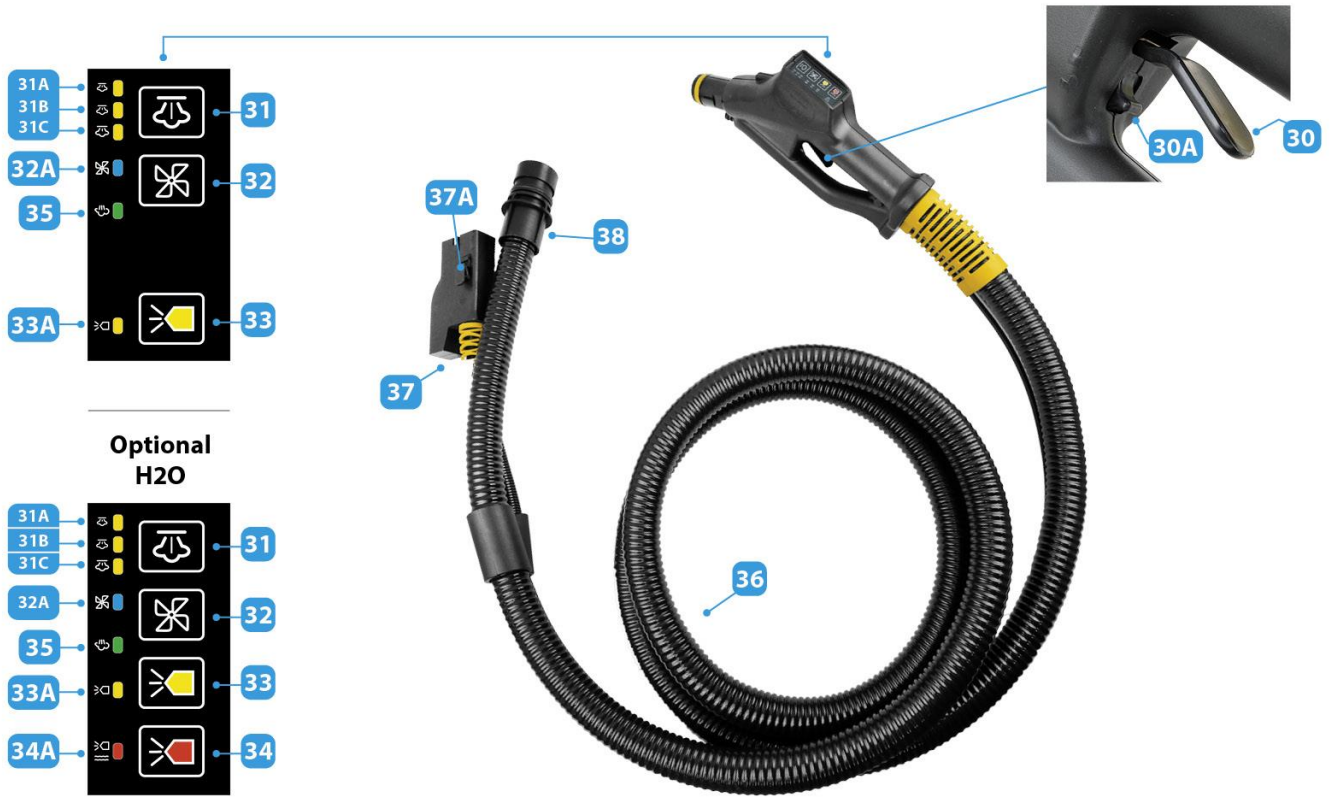


**Optional H2O**



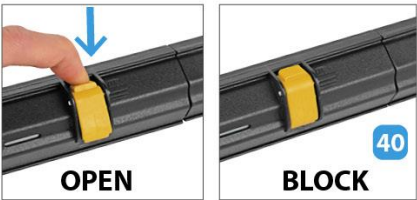
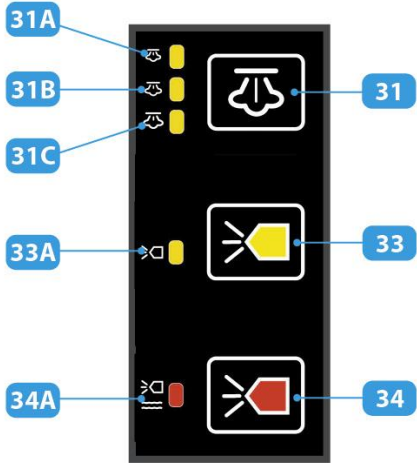
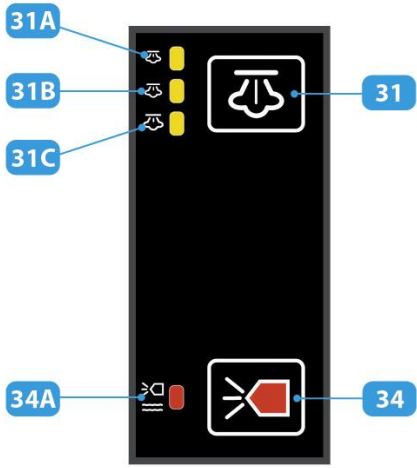
### 3.1 NOMENCLATURE – Radames accessories

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



## 3.2 NOMENCLATURE – Star accessories

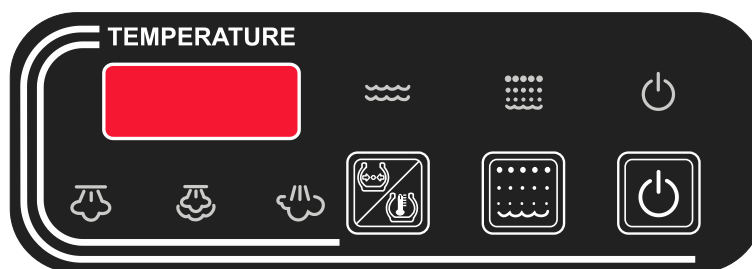
30) "Release" button/lever	37A) Locking latch steam plug
30A) Blocking switch of the release button/lever erogazione	38) Vacuum plug
31) Steam command switch	39) Extension tube
31A, 31B, 31C) Steam indicator MIN/MED/MAX	40) Locking latch
32) "Vacuum" switch	43) Nylon brush (Ø 28mm)
32A) "Vacuum" indicator	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 erogazione	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



### “Stand-by” button

Activates/deactivates the electronic components, steam solenoid valves and boiler refilling pump.



### “Stand-by” indicator

Indicates that the machine is switched on.



### “Boiler on” button

Activates/deactivates the heating elements and the overheated water injection valve.



### “Boiler on” indicator

Indicates that the boiler is switched on.



### Pressure / temperature button

Visualizes the pressure in bar or the temperature in Celsius on display.



### “Low water” indicator

Indicates the lack of water in the tank, the blinking light indication is accompanied by an intermittent buzzer.



### “Steam ready” indicator

Indicates that the generator is ready for use.



### “Minimum steam” indicator

Indicates that minimum steam flow has been selected.



### “Medium steam” indicator

Indicates that medium steam flow has been selected.

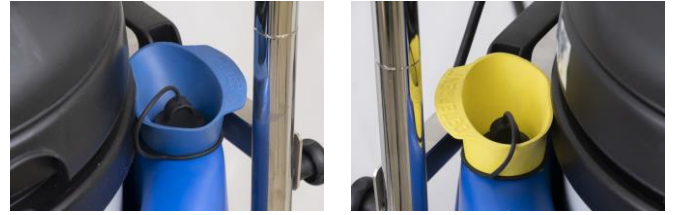


### “Maximum steam” indicator

Indicates that maximum steam flow has been selected.

## 4. USER INSTRUCTIONS

After opening the packaging, fix the manoeuvring handle bar (14) in the relative seat in the rear side of the unit and secure in place with the relative fixing screw (15).



Remove the caps from the tanks (9 – 10) and add softened

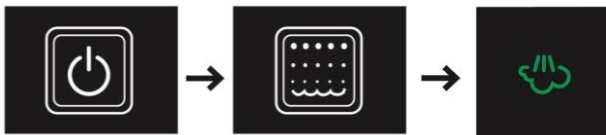
water and detergent to the respective tanks (water in the blue tank and detergent in the yellow tank; **take great care in this phase as pouring detergent (or any other liquid other tank softened water) in the water tank will cause a generator failure.**



Insert the suction unit power cable (7) in the electric socket on the rear side of the unit (8) and make sure that the main switch (2) on the suction head is in ON position; insert the power cable plug (19) into the electric socket, making sure that the voltage and amperage correspond to the values

given on the machine data plate. Insert the desired tool into the steam coupling (22) and turn the unit on through the main switch (21).

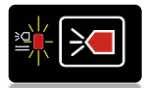
**Water level control:** this device is equipped with two sensors which control the water presence both in the water tank (10) and in the boiler.



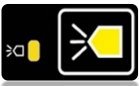
Activate the “stand-by” button (20A) to turn the machine on. The system will firstly check the water level in the boiler and then in the water tank. At the first switching on, or if the water

level in the boiler is not sufficient, the system will automatically restore it. In this case, the “low water” indicator (20L) will be blinking for the whole duration of the operation (approx. 3 seconds). Activate the “boiler on” button (20C) to power the boiler heating elements and wait until the “steam ready” indicator (20F) lights on. (in case water finishes during the usage of the unit with the boiler button switched on, it will automatically activate again after having refilled water into the tank (10)).

Otherwise, once the water tank (10) is empty, the “low water” indicator(20L) will switch on intermittently followed by an acoustic signal; the indication will be visible on the steam hose too as the “hot water injection” light (34A) will be blinking.



Proceed by adding water to the water tank (10). This operation can be carried out without turning the machine off. Once the “steam ready” light (20F) comes on, the machine is ready for use again.

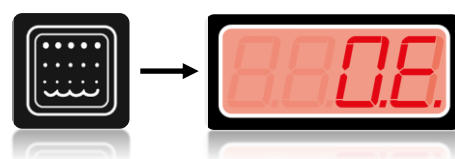
**Detergent control:** differently from what indicated above, the missing detergent tank (9) does not activate either any blinking light nor any acoustic signal. When the detergent runs out, top up the detergent in the tank and  activate the “detergent injection” switch (33) until detergent flows out of the accessory. The appliance is ready for use again.

It is possible to regulate the detergent flow by acting on the control panel and following the instructions indicated below:

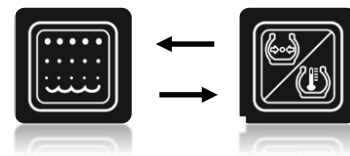
- Verify that the “stand-by” indicator (20B) and the “boiler on” indicator (20D) are on.



- Hold the “pressure / temperature” button (20E) until the advice “de” is shown on the display.



- Act on the “pressure / temperature” button (20E) and on the “boiler on” button (20C) to regulate the desired detergent flow from 1 to 20.



Once the detergent flow has been selected wait some seconds until the display indicates the information shown before this operatio.

- The appliance is now ready for use with the desired detergent flow.

**Maintenance notice C A L C:** the machine is equipped with a maintenance notice system, which will signal “C A L C” on the display alternatively to the temperature. It communicates to the user the need to proceed with the boiler drainage. For information about how to proceed with the boiler drainage see the chapter 7 (maintenance).

## POWER SAVE MODE

The power save mode permits to reduce the unit’s consumption, therefore the machine automatically turns off after 1 hour of inactivity. For activating or deactivating such mode it is sufficient to switch the generator off by pressing the “stand-by” switch (20A) for 3 seconds during the usage.

3 sec



Repeat the same procedure to deactivate the function. The display will show **T.OFF**.

## 4.1 OPERATING JUNIOR STAR MAX WITH RADAMES / STAR HOSE

**Warning!! It is recommended to switch off the steam generator before connecting the hose**

Insert the male suction hose (38) in the female hose coupling (6) located on the vacuum cleaner and the steam plug (37) in the steam socket (22) located on the machine. Push until the catches have locked into their seats.



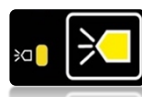
Switch on the main switch (21) and the “stand-by” (20A) and “boiler on” (20C) buttons for steam production; wait until the “steam ready” indicator (20F) comes on. The steam ready indicator on the handgrip (35) also lights up, indicating that there is steam in the boiler.

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

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



Button (32) activates the vacuum cleaner which can be activated even during steam delivery.



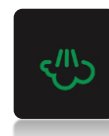
Button (33) allows you to add detergent.



Button (34) allows you to add hot water (only for models equipped with this function).

Both the detergent and the superheated water function must be run at intervals (e.g. 20 seconds on 20 seconds off), neither function works continuously.

The detergent and / or hot water injection (optional) are delivered only if the steam outlet is active and the “steam ready” indicator (20F) on the control panel is on.

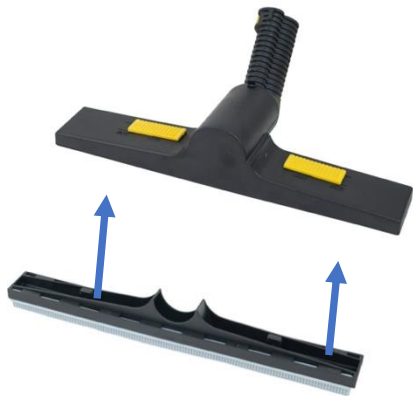


**⚠ Warning!!**



The button (34) on the lance releases superheated 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 superheated water and vacuum, select and install the most suitable accessory after having first switched off the machine:

#### 4.2 OPERATING JUNIOR STAR MAX WITH RADAMES ACCESSORIES



The multi-purpose floor tool (77): with appropriate inserts (79 or 80). 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).



**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**

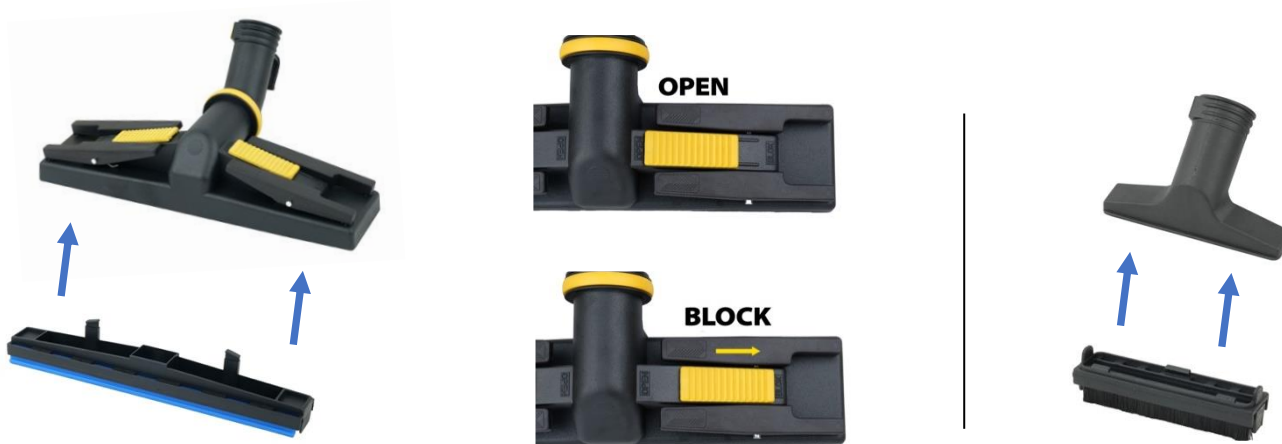
together by pushing the locking latches (40) in BLOCK position. Remember that the indicators (32A, 33A, 34A) on the handgrip must be switched off or blinking (31A, 31B, 31C) until the end of this procedure.

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 JUNIOR STAR MAX 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 JUNIOR STAR MAX WITH JULY HOSE

**⚠ Warning!! It is recommended to switch off the steam generator before connecting the hose**

Insert the steam plug (37) in the steam socket (22) on the machine. Push until the locking hook (37A) has clicked into its seat.



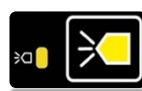
Switch on the main switch (21) and the “stand-by” (20A) and “boiler on” (20C) buttons for steam production; wait until the


“steam ready” indicator (20F).

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

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



 Button (33) allows you to add detergent.

 Button (34) allows you to add hot water (only for models equipped with this function).

Both the detergent and the superheated water function must be run at intervals (e.g. 20 seconds on 20 seconds off), neither function works continuously.

The detergent and / or hot water injection (optional) are delivered only if the steam outlet is active and the “steam ready” indicator (20F) on the control panel is on.

**Warning!!**

**The button (34) on the lance releases superheated 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 superheated water, select and install the most suitable accessory after having first switched off the machine:

## 4.5 PRACTICAL TIPS

### STEAM LANCE

Direct the strong steam flow toward cracks, hidden areas, greasy objects, kitchen tops, carpets, carpeted floors, armchairs, sofas, tapestries, car engines etc. and you will be able to remove easily and completely grime, grease, dirt in general and obtain a safe sanitation. After this operation it will be indispensable to pass over the treated surfaces with a dry cloth.



### IN THE KITCHEN

We suggest the use of the steam lance (71-76-88) with the various brushes (43-44-45-46-49-51). These brushes help to remove the most obstinate dirt from kitchen tops, hoods, fryers, etc. It is possible to clean the dishwasher by spraying steam with the steam lance (71 – 76 – 88). In case of heavy incrustation, we suggest to use the nylon brush (43-49).



### IN THE BATHROOM



For all areas which are difficult to reach we suggest applying to the steam hose (36) the steam lance (71-76-88) and a small brush (43). This accessory allows cleaning radiator crevices and all difficult points. In case of washbasin clogging, attach the steam plunge (47) to the steam lance (71-76-88) and direct the steam jet into the drain.

**WARNING: EXERT THE LEAST POSSIBLE PRESSURE WHEN USING THE SMALL BRUSHES ON PORCELAIN.**

### WINDOW CLEANER (on glass or plastic surfaces)

We suggest using the window cleaner (75) by inserting it directly on the steam hose handgrip (36) and applying steam on the surface to be cleaned. Then use the squeegee blade mounted on the window cleaner to remove the humidity by using vertical movements to bring the dirt to the bottom of the surface. Use a cotton or microfiber cloth to remove the dirt from the bottom of the treated surface.



### TRIANGULAR BRUSH

Suitable for the cleaning of armchairs, sofas and mattresses. We suggest to use the triangular brush with a cloth fastened with the respective clamps (73).



### RECTANGULAR BRUSH (For tiled floors)

To carry out specific grout cleaning we suggest to use the steam lance (71-76-88) with a brush (43 or 44 according to the need). This way it will be possible to get rid of the most difficult dirt and remove it from the grouts thanks to the pressure applied.

To remove the dirt from the floor use the rectangular brush (72) wrapped in a cloth, which will work as an extractor when fastened with the special clamps (73). We suggest applying steam also while picking up the dirt. To get a good result, work with surface areas not larger than 5sqm at a time thus preventing dirt from drying and adhering on the floor again.



We suggest to use the brush without the cloth when the dirt to be removed is considerable, meanwhile it is enough to work with the brush wrapped in a cloth in case of a not considerable the dirt.

When confronted with solid objects while cleaning the floor (i.e. chewing-gum) use the special scraper (48) which can be attached to the steam lance (71-76-88) and is able to remove stubborn objects without scratching the treated surface.

To remove wax from the floor use a cloth fastened to the rectangular brush (72). The steam helps to loosen the wax so that its removal becomes easier. To spread the wax on the floor use as mentioned above a clean cloth fastened onto the brush. Put the wax on the cloth, the heat of the steam will help spread the wax evenly so that its penetration will be easier. When the wax is dry proceed with normal polishing methods.

**WARNING: THE GENERATOR PRODUCES STEAM WITH A TEMPERATURE OVER 100°C. BEFORE STARTING THE CLEANING TASK WE SUGGEST TO TRY ON A SMALL AREA TO AVOID DAMAGES.**

### **Marble and parquet floors**

We suggest adding a steam buffer (optional) to the rectangular brush (72) and then wrap it with a cotton cloth to avoid scratching the surface. To continue the cleaning it is necessary to change the cloth according to the quantity of dirt to be collected on the floor.

**⚠ ATTENTION: DO NOT PERSIST WITH STEAM DELIVERY ON THIS KIND OF FLOORS. SUCH SURFACES MAY BE DAMAGED IN CASE OF COMBINED USE OF EXCESSIVE HEAT, HUMIDITY AND BRISTLES. THEREFORE CARRY OUT THE CLEANING TASK IN THE SHORTEST POSSIBLE TIME.**

### **Carpeted floors**

Before carrying out the steam cleaning we suggest that you clean the carpeted area with a vacuum cleaner. Then use the rectangular or the triangular brush with a cloth wrapped around it. To continue with the cleaning the cloth should be replaced according to the quantity of dirt on the floor.


### **Car interiors**

To clean car interiors (upholstery, carpets and seats) follow the cleaning instructions for the carpeted floors. To clean the dashboard it is enough to steam the surface and to wipe it then with a cloth in order to dry the humidity.

## 5. MAINTENANCE

### 5.1 DISCHARGE OF SLUDGE AND SCALE DEPOSITS FROM THE BOILER

The device is equipped with a maintenance warning system which will signal "C A L C" on the display alternatively to the temperature. It communicates to the user the need to proceed with the boiler drainage. Once "C A L C" appears on the display it is still possible to finish the cleaning procedure.

 **ATTENTION: THE BOILER CLEANING MUST BE CARRIED OUT WHEN THE EQUIPMENT HAS COOLED DOWN (I.E. SWITCHED OFF SINCE AT LEAST 5 HOURS). THE MACHINE SHOULD BE DISCONNECTED FROM THE ELECTRICAL POWER SUPPLY AT LEAST 5 HOURS BEFORE CARRYING OUT THE MAINTENANCE AND FOR ALL THE DURATION OF THE MAINTENANCE PHASE.**

**It is recommended to follow the procedure indicated above as to make sure that no pressure is left inside the equipment.**

Place an adequate recipient under the machine to collect the water drained from the boiler, use the supplied special key in order to remove the boiler drain cap (18) and then wait until the boiler is completely emptied (it is possible that, once the cap has been removed, the water flow is slow and difficult; if this occurs, clean the boiler drainage from the incrustations as to completely clear the passage).

Clean eventual incrustations from the cap (18), check that the seal on the bottom of the cap is in good condition and replace if necessary (contact your supplier for spare parts).

**Properly close the boiler's drain cap and carefully check that it is correctly screwed.**

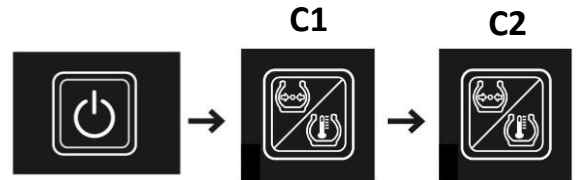
If necessary, fill in the water tank (10). Plug the power plug (19) back into the electrical socket. Switch the unit on by activating the main switch (21) and follow the instructions indicated in the chapter 6 (operating instructions) to normally use the unit again.

To reset the "C A L C" signal on the display, turn the unit off with the "stand-by" button (20A), the display will indicate **OFF**. Press and hold the "boiler on" button (20C) for 10 seconds until the inscription "CLrC" will appear on the display.

The maintenance of the boiler is finished.

## 5.2. HOUR COUNTERS

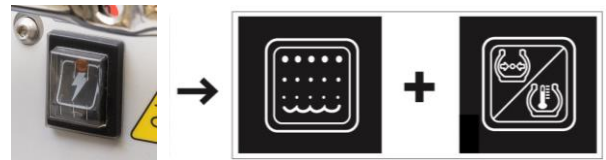
The device is equipped with two hour-counters: total (not resettable) and partial (resettable by the user). To visualize the hour counters, switch the device off by using the “stand-by” button, “OFF” indication will appear on the display. To visualize the total hour counter, press the “pressure / temperature” button (20E). “C1” indication will appear on the display followed by total hour counter. Press again the “pressure / temperature” button (20E) in order to visualize the partial hour counter, “C2” indication will appear on the display followed by partial hour counter.



## 5.3 RESET OF “C2” PARTIAL HOUR COUNTER





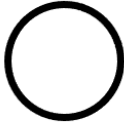



Turn the unit off by using the main switch (21) located on the control panel of the unit.

Press and hold together the “pressure / temperature” button (20E) and the “boiler on” button (20C), while you keep them pressed switch the machine on again by using the main switch (21).



## 5.4 MAINTENANCE OF THE ACCESSORIES

Grease occasionally joints on the accessories and hose extensions.

	<b>RADAMES</b>	
PG5123		
OR 29.82X2.62		
	<b>RADAMES / STAR</b>	
PG5116		
OR 6.75x1.78		
	<b>STAR</b>	
PG53903		
OR 26.7x1.78		
	<b>JULY / GENERATOR</b>	
PG5142		
OR 9.25x1.78		

## 6. BEFORE REFERRING TO THE TECHNICAL SERVICE

PROBLEM	POSSIBLE CAUSE	REMEDY
The machine is not producing steam and suction isn't working.	The power may be off.	Check that the power socket (19) is correctly inserted and that the main switch of the building is activated.
The red "low water" indicator (20L) lights up.	The water tank (10) is empty.	Add clean water to the water tank (10).
The detergent injection does not work.	The detergent tank (9) is empty.	Top up the detergent in the tank.
No suction.	<ul style="list-style-type: none"> <li>A. Suction unit not powered.</li> <li>B. Suction hose clogged.</li> <li>C. Suction unit bin (4) full of water.</li> </ul>	<ul style="list-style-type: none"> <li>A. Check that the switch (2) is on and that the plug (7) is correctly inserted in the socket</li> <li>B. Clean the suction hose and accessory being used.</li> <li>C. Empty the suction unit (4)</li> </ul>
Steam leaks out of the joints between the different accessories.	Check the wear of the o-ring seals.	Clean and lubricate the seals. If required, replace them with the spare parts supplied.
Steam does not come out.	<ul style="list-style-type: none"> <li>A. Boiler not yet under pressure (light 20F is off).</li> <li>B. The steam button (31) is off.</li> <li>C. The safety button (31) has not been pressed.</li> </ul>	<ul style="list-style-type: none"> <li>A. Wait a few minutes.</li> <li>B. Activate the steam button (31).</li> <li>C. Press the safety button (30) to deliver steam.</li> </ul>
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 cause vibrations.	Wait for the pressure to stabilise (2-3 minutes) and the noise stops.
The accessories do not fit perfectly.	The joints and snap-on couplings are dirty.	Clean and lubricate the joints on the accessories.

## 7. EC 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:)

#### **Junior Star Max**

*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**

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)





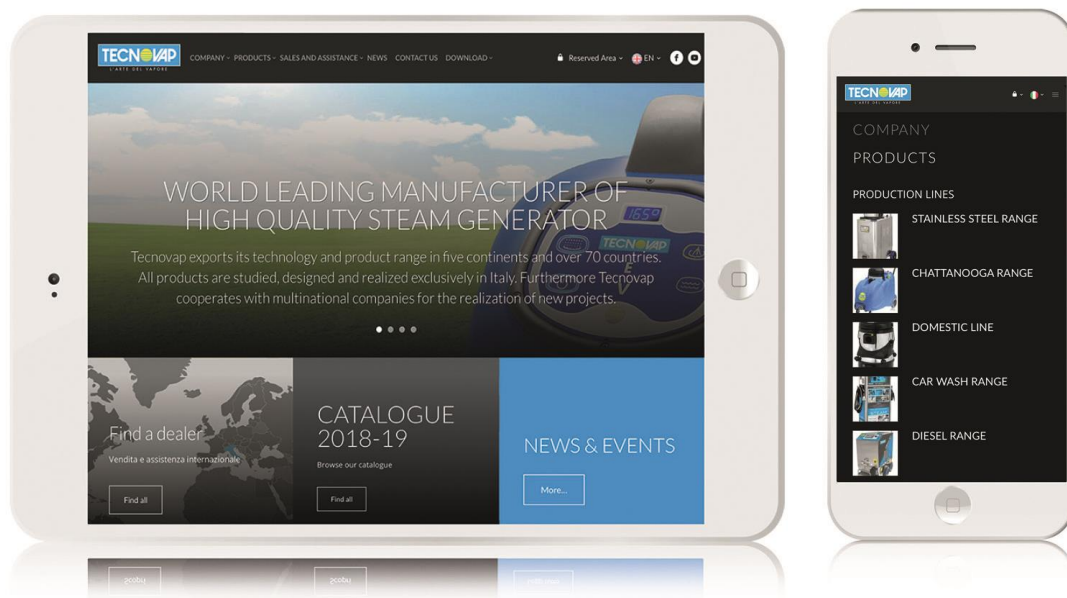






THE MANUFACTURER RESERVES THE RIGHT OF TECHNICAL AND STRUCTURAL MODIFICATIONS  
AS WELL AS IMPROVEMENTS WITHOUT PRIOR NOTICE.

Tecnovap S.r.l. – Via dei Sassi 1/a 37026 Pescantina, Verona – Italy +390456767252 – info@tecnovap.com – www.tecnovap.it



visit our website  
**WWW.TECNOVAP.IT**

