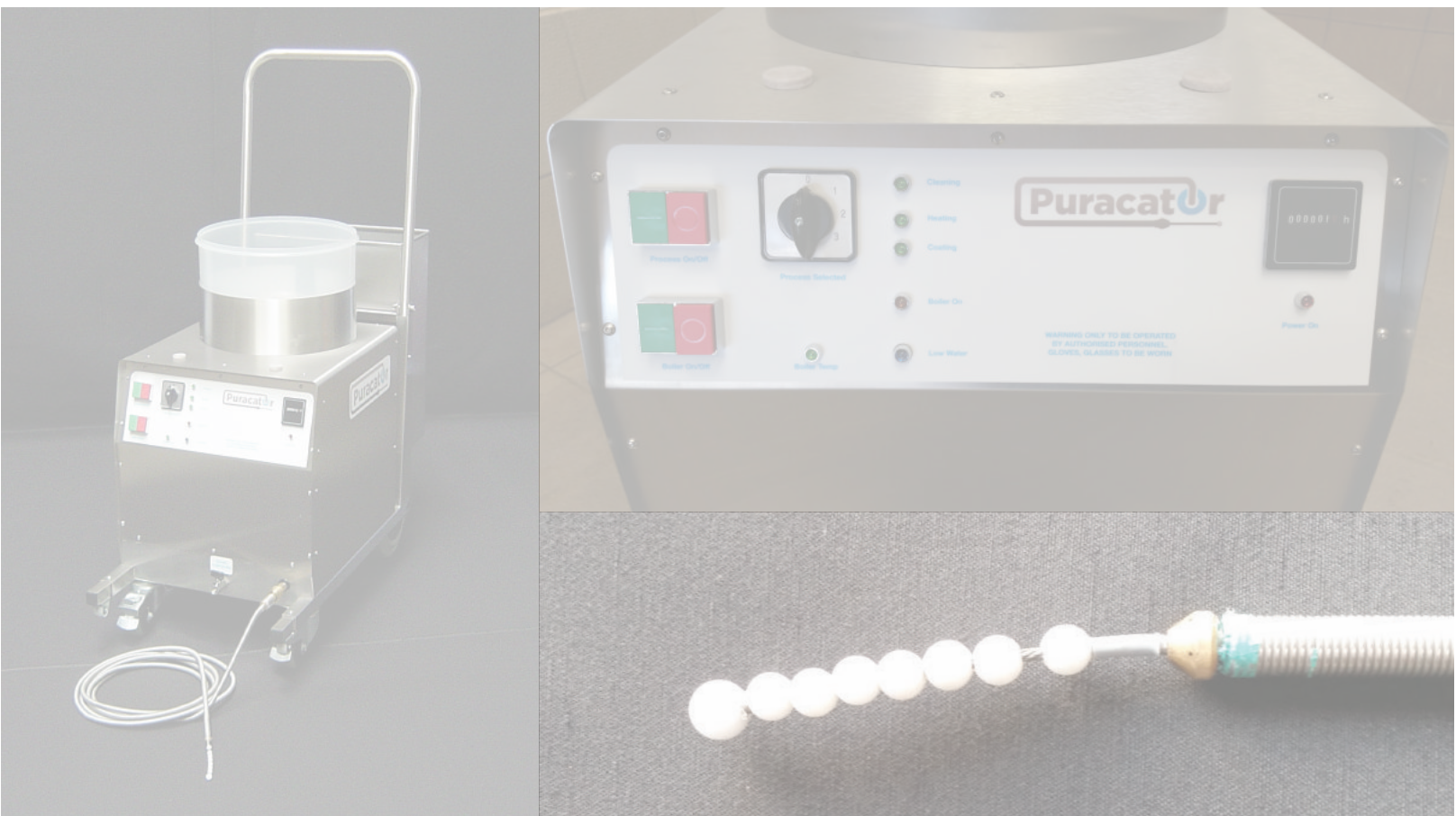




To the P-Trap and beyond!

PURACATOR® 'MF' MACHINE OPERATING MANUAL 2018



Tel: +44 (0)1908 511079

Email: info@puracator.co.uk

Web: www.Puracator.co.uk

Unit C, Lincoln Lodge Farm, Castlethorpe, Bucks MK19 7HJ



ITEMS INCLUDED

- Puracator® Unit
- Removable Water Tank
- Purascope® - Complete
- Spare Trace
- Blue Rubber Pipe
- Coating Uplift Pipe
- Rubber Seal
- Remote Control
- RCD Plug and Lead
- Plastic Sealed Container for Purascope®
- Heat Resistant Gloves
- Operations Manual

TECHNICAL SPECIFICATIONS

Dimensions	<ul style="list-style-type: none"> • Height 1070mm (Handles Extended) / 570mm (Handles Retracted) • Width 440mm • Length 850mm (Legs Retracted) / 450mm (Legs Extended)
Weight	<ul style="list-style-type: none"> • 42Kgs (Excluding water tank)
Power supply	<ul style="list-style-type: none"> • 240 volt 50 Hz
Maximum loading	<ul style="list-style-type: none"> • 10 Amps
Heating cycle load	<ul style="list-style-type: none"> • 2 Kw
Control circuit	<ul style="list-style-type: none"> • 12 v
Cleaning pump capacity	<ul style="list-style-type: none"> • 5 Bar @ 4 Litres Per Minute
Coating pump capacity	<ul style="list-style-type: none"> • 3.5 Bar @ 2.5 Litres per minute
Steam pressure	<ul style="list-style-type: none"> • 3 Bar @ 125°C
Safety heat exchanger pressure relief	<ul style="list-style-type: none"> • 6 Bar
Warm up time	<ul style="list-style-type: none"> • 5 Mins (12°C – 125°C)

We, Atrium GS Limited, Unit C, Lincoln Lodge Farm, Castlethorpe, MK19 7HJ, Telephone: 01908 511079 declare under our sole responsibility that the product declared as Puracator to which this declaration relates is in conformity with the following standards:

Low Voltage	2014/35/EU
Pressure Equipment	2014/68/EU

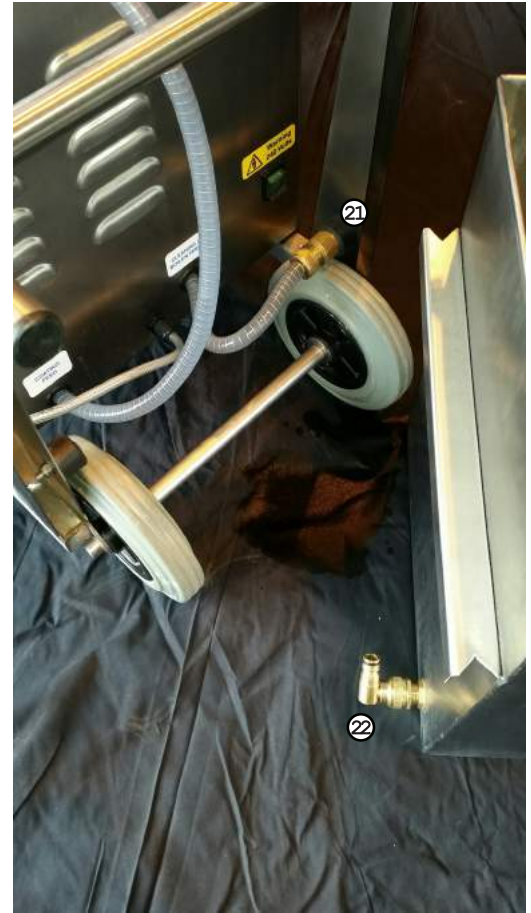


FRONT PANEL

- 1 - Green LED Light - Cleaning
- 2 - 'On' and 'Off' Red/Green Function Buttons
- 3 - Selector Switch
- 4 - Orange LED Light - Power On
- 5 - Blue LED Light - Low Water
- 6 - Green LED Light - Coating
- 7 - Orange 'Boiler On' LED Light
- 8 - Green LED Light - Heating
- 9 - Green LED Light - Boiler Ready for Use
- 10 - Boiler On Switch

PARTS

- 12 - Removeable Water Tank
- 13 - Purascope Nozzle
- 14 - 'Coating' Uplift Pipe
- 15 - Rubber seal (plunger)
- 16 - Blue Rubber Pipe
- 17 - Telescopic Legs
- 18 - Handles
- 19 - Front Wheels (lockable)
- 20 - Remote Control
- 21 - Stay (rear of the unit)
- 22 - Quick Release Coupling (on the tank)
- 23 - Internal Tap
- 25 - Inlet Supply
- 26 - Safety Switch on Rear of Unit
- 27 - Auxiliary Socket (Front of Unit)
- 28 - Plastic Sealed Container for Purascope



INTRODUCTION

Puracator operates by the insertion of Purascope into the drain as far as required/possible and the functionality is performed as the Purascope is withdrawn.

The purpose of this is to ensure that all resulting waste is first broken down into smaller size pieces by the cleaning jet then washed down the drain again in smaller quantities. The opposite action tends to create a 'ball' of growth/debris which is more difficult to remove and could cause blockages further down the waste outlet.



Puracator is fitted with fixed wheels at the rear and rotating and lockable front wheels (19) for easy but controlled manoeuvrability. The handles (18) are shown in the erect position (Photo A).

Puracator is shown (right) with the telescopic legs (17) extended and the handle (27) collapsed (Photo B). In this position the machine can be simply tipped backwards and the small wheels moved onto the back of a van. With the handles then collapsed and used as lifting handles the entire machine may be rolled into a vehicle by a single operative.



Puracator comes complete with a removable water tank (12) - (Photo C).

When supplied with a stainless steel tank this is then simply 'hooked' on to the rear cross member beneath the handle. When a plastic tank is used, the purpose design 'stand' is dropped down into position on the rear of the unit with the restraining strap attached. The machine may then be safely moved.



A plastic sealed container is supplied which fits on top of Puracator to hold the Purascope (28).

Puracator is fitted with a remote controller (20) which will start and stop whichever mode the controls are set to using the selector switch (3) whether this be cleaning, heating or coating (Photo D). Once the chosen operation is selected and the function commenced using the remote control, then the remote is required to discontinue that function. This does not apply to the boiler heating function.



Puracator is capable of delivering a variety of chemical processes if required to do so which include:

- Cleaning fluid either general purpose or biological.

These products may be either added to the water in the water tank (12) and applied under the 'cleaning' process, or applied as a coating using the coating process.

- A growth/bacteria inhibitor which may be either a biocide or a biological solution.

This would be applied with the ready to use chemical in a separate container and using the uplift pipe (14) on the units coating function.

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BEFORE USING THE MACHINE

1. Please read all this document in it's entirety before commencing use of the machine.
2. Safety equipment and Personal Protection Equipment must be available and used as appropriate. This particularly must include the insulated gloves provided for when the unit is used in 'Heating' mode.
3. Lock the front wheels (19) before commencing the set-up of the machine. Ensure the Purascope (13) is connected prior to using the machiine for any function.
4. Ensure the flexible hose quick release coupling (22) is disconnected from the 'stay' (21) on the rear frame of the unit and connected to the coupling on the tank (22).
5. Turn the tap inside the tank (23) adjacent to the water filter to the 'on' (horizontal) position.
6. The water tank should be filled to the level indicated and additional water supply available if the extent of work requires it. An additional 50 Litre bowser is available for the purpose of having additional water available. The bowser has an electric pump fitted power for which is available from the auxiliary socket (27) on the front of the unit.
7. Any ready to use cleaning or coating material is available in a separate container.
8. Ensure an RCD protected power supply is available and connected to the Puracator inlet supply (22) Checking the RCD is reset. (24)
9. The safety switch on the rear of the unit (26) is switched to the 'on' position and showing green.
10. The 'Low Water' Blue LED (5) may illuminate until the unit has been fully primed.
11. When power is successfully supplied to Puracator the Orange LED light on the front control panel of the unit is illuminated (4).



TO PRIME PURACATOR

To ensure full pressure is obtained it is advisable to 'Prime' the machine.

12. Connect the Purascope assembly including the blue rubber pipe to the front manifold (16) as indicated.
13. Place the nozzle end of the Purascope (13) into the water tank (12) and ensure it safely remains below the water level.
14. Place the 'Coating' uplift pipe (14) into the main water tank (12).
15. Using the selector switch (3) on the front panel move to the 'Cleaning' function, position 1.
16. Using the green function 'On' switch (2) and ensuring the Purascope nozzle (13) stays below water level in the tank, commence the 'Cleaning' function. The green LED light (1) will illuminate and air will be expelled from the nozzle. Water jets achieve full pressure in approximately 15 seconds. The Purascope will visibly stiffen slightly.
17. Terminate the 'Cleaning' function by pressing the red 'Off' switch (2). The green LED light (1) will be extinguished.
18. Repeat the process with the selector switch (3) moved to 'Coating' position 3. The green LED light (6) will be illuminated. Water will be seen to pass up the coating uplift pipe (14) which is temporarily immersed in the water tank. Allow the air to be expelled and the flow established from the Purascope (13). When all air has been removed, the operating sound of the pump will noticeably change.
19. Terminate the function by pressing the red function button (2). The green LED light will be extinguished (6).
20. If the heating functionality is required, prime the machine by moving the selector switch to Position 2. Press the Green On Button. The "heating" light (8) will illuminate, and if blue LED light was illuminated it will be extinguished. Terminate using Red Stop Button and put the selector switch back to 0.
21. The boiler requires approximately 5 minutes to achieve temperature, the achievement of which is indicated by the illumination of the green 'Ready For Use' LED light (7).



BEWARE – The heat of the steam will raise the temperature of the Purascope and it's connections to a level capable of burning the skin, ENSURE GLOVES ARE USED AT ALL TIMES FOR THIS HEATING FUNCTION.

22. To verify steam availability, with the Purascope nozzle (13) immersed in the water of the water tank, select 'Heating' position 2 on the selector switch (3) and press the green function 'On' switch (2).
23. The Purascope saturated steam requires to purge the line of its water content before heating it to allow maximum temperature at the nozzle. This purging process will require approximately 2 minutes. Leaving the nozzle in the water tank (12) will ensure full pressure is recognised by its sound. The Blue 'Low Water' LED will illuminate intermittantly when the unit replenishes water from the boiler.



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TO PRIME PURACATOR (CONTINUED)

24. Terminate the purging process by pressing the red function Off switch (2).
25. The unit is now ready for any function. This whole priming process should not require longer than 4 to 5 minutes. The time to heat the boiler can run concurrently while the other two functions are being primed.

TO USE PURACATOR

Ensure the 'Remote Control' (20) is available. It is supplied with a lanyard to allow its suspension around the neck for easy access.

26. Gain access to the drain point.
27. Set the unit to operate in the required function using the selector switch (3).
28. Enter the Purascope nozzle (13) into the drain access point and introduce it gently but firmly with short backwards and forwards movements progressing the introduction of the scope into the drain with each movement.
29. Continue this process until Purascope is to the desired position in the drain. Commence the cleaning operation by using the remote control (20) and gently withdraw Purascope using backward and forward movements to ensure complete cleaning.
30. To avoid 'over spray' when the Purascope is withdrawn from the drain access point, it is recommended that the Purascope nozzle (13) is passed through a rubber seal (28) before being entered into the drain access point.
31. When heating is required simply repeat the above procedures as long as the priming procedure detailed above has been followed. Turn the selector switch (3) to the Heating position 2. When the green start switch (2) is pressed the green LED (8) will be illuminated.
32. Gradual removal of Purascope while the unit is in heating mode will allow saturated steam to come in contact with the entire inner surface of the pipe sufficient to destroy harmful bacteria.



33. The Puracator coating process is initiated as it was during the priming procedure. Turn the selector switch (3) to Cleaning position 2 and initiate the process either by pressing the green start button (2) or use the remote control fob. Remember if the remote is used to start to the process it must be used to stop the process. If the remote control is not used to terminate the cleaning process by pressing the red 'off' switch (2).

PACKING AWAY PURACATOR

1. Coil Purascope back into plastic tub on the top of the unit.
2. To empty the Water tank, ensure the unit is placed over a drain or suitable location. When the pipe is disconnected the water will run out. Ensure pipe is connected to the stay after being disconnected from tank. Alternatively, turn the valve off inside the tank (turn the switch until in vertical position), disconnect the pipe and attach it to stay, you can remove the tank and pour the remaining water out.
3. To lower the handles, push the small spring-loaded buttons either side of the handles (near tank) and push forward.

ADDITIONAL PHOTOS

