



Fire-fighting



TRITON Range

USER MANUAL

TRITON MOBILE NG



Version 1
17/11/16



History of modifications

Date	Version	Modification	N° pages modified
17/11/16	1	Creation	



Summary

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General presentation

- Triton is a single-point pressurized injection device compliant with the requirements of EN 16327.
- Triton can be used with soft water or seawater.
- Triton is designed to be installed on fire trucks used under normal operating conditions (outdoors, tunnel, etc.). Explosive atmospheres must be avoided.
- Triton operates within a temperature range of - 15°C and + 60°C with a humidity level between 30 and 90%.
- CTD recommends the use of gloves compliant with DIN EN 659 when using a Triton device.



Description of the system

Triton Mobile is in version : Low pressure (15 bar maxi).
The output of the system Triton is 9 L/min.
This model comply with EN 16327 classification.

> Operating ranges: See operating curves in page 6.

PERFORMANCES

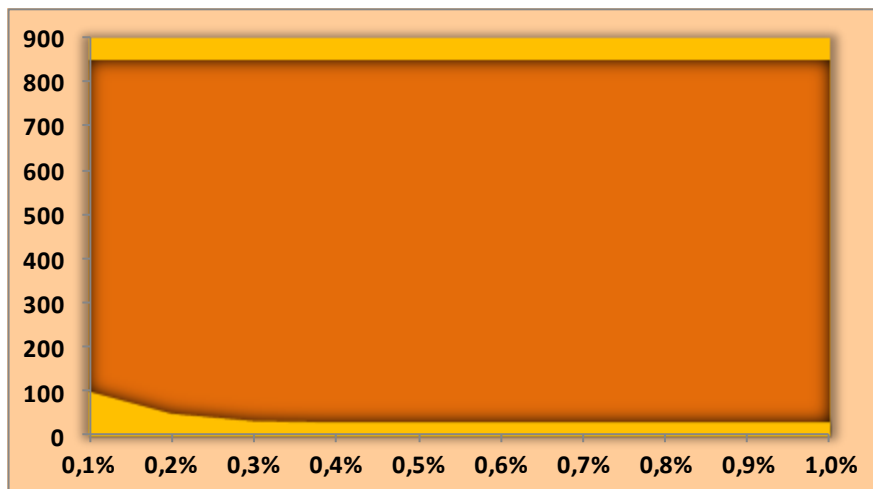


Performances

Triton Mobile

TRITON MOBILE - DZA 8 / 0,1 - 1 Flowmeter DN40

CONCENTRATION		0.1 %	0.5 %	1 %
FLOW	MINIMUM	100	30	30
	MAXIMUM	850	850	850



Standard	EN 16327
Supply voltage	24 Vdc
Maximum power consumption	16 A
Maximum injection pressure	15 bar
Electric motor power	380 W
Maximum output of the foam pump	9 L/mn
Dimensions of the motor pump unit	600 mm (L) x 400 mm (l) x 277 mm (H)
Total weight	33 Kg
Compatible foam concentrate	Class A (according to DIN EN 2 => See compatible foam concentrate table in page 7)



List of compatible foam concentrates

MOUILLANT-MOUSSANT / CLASS A	
Fabricant / Manufacturer	Nom du produit / Name of the product
Bio-ex	Biofor C
Bio-ex	Biofor N
Bio-ex	Biofor S
Eau Et Feu	M51
UNISER	FF60 (G)
Solberg	Fire-Brake™ 3150A Class "A" Foam
VS FOCUM	Boldfoam A+
VS FOCUM	Boldfoam B-Water
AUXQUIMIA	CAFOAM
AUXQUIMIA	RFC-88
Ansul	Silvex Class A Foam Concentrate
Kidde Fire Fighting/Angus Fire	Forexpan S (0.1%-1.0%)
Kidde Fire Fighting/Angus Fire	Hi Combat Class A (1st Defense Class A Cold)
Kidde Fire Fighting/ National Foam	Knock-Down
Monsanto	PhosCheck WD881
Chemonics	Fire-Trol Fire Foam 103
Chemonics	Fire-Trol Fire Foam 104
3FFF	Freefor 15
3FFF	Freefor 21
3FFF	Freefor 63
3M	Light Water FT-1150
Chemguard	First Class – Class A Foam P/N 5100-307
ChemGuard	Class A Plus
Unifoam Co. Ltd.	UniA 1%
3M	Light Water SFFF
Kidde Fire Fighting/ National Foam	Responder
Kidde Fire Fighting/Angus Fire	FirePower Class A
3M – Australia	Fire-Brake Bush Fire Fighting Foam
Fire Response Systems Inc	Class A - Fire Stop-R CCR# GOLD7386

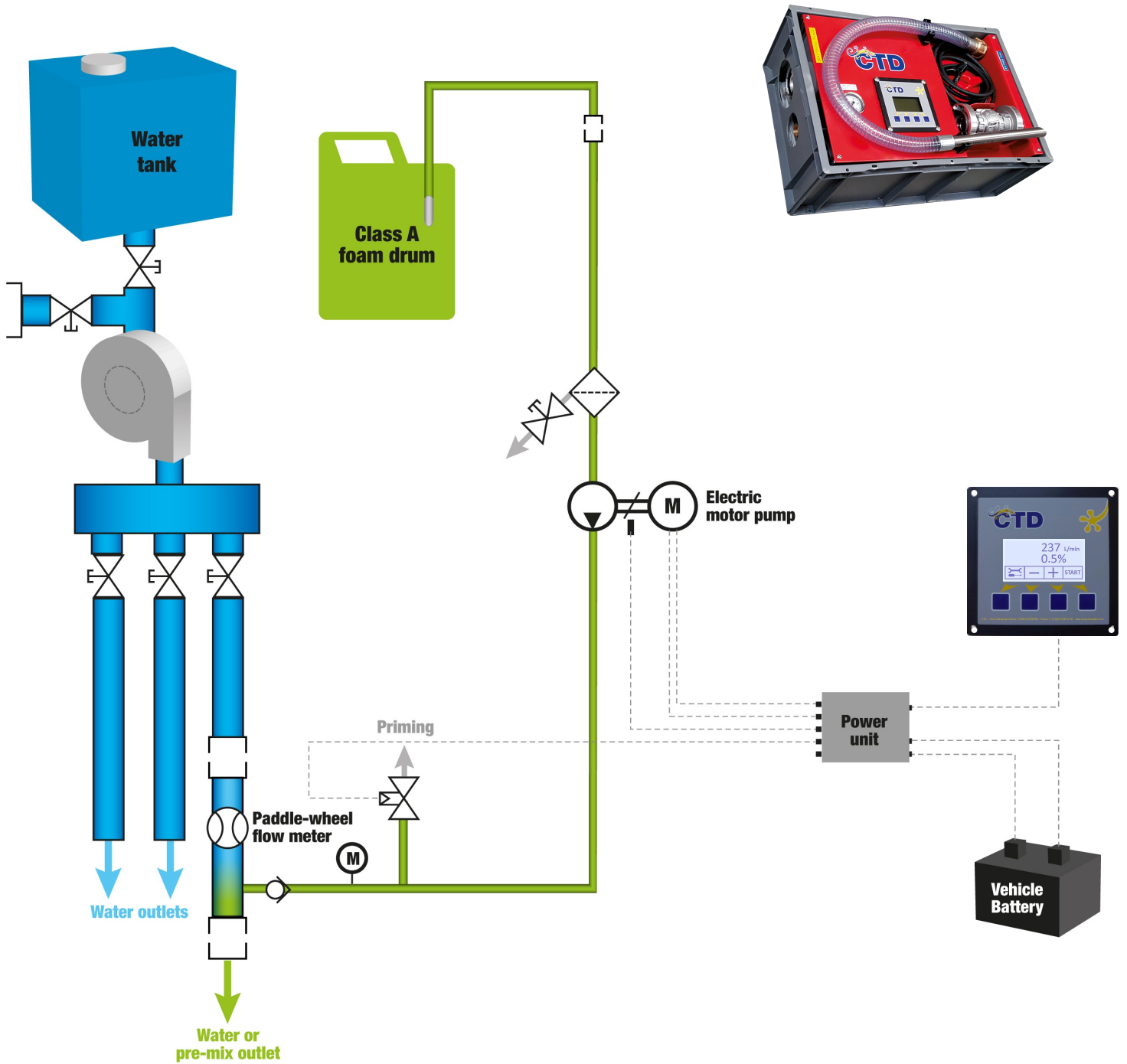
HYDRAULIC

DRAWING



Hydraulic drawing

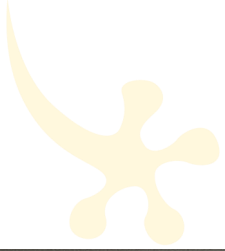
Triton Mobile



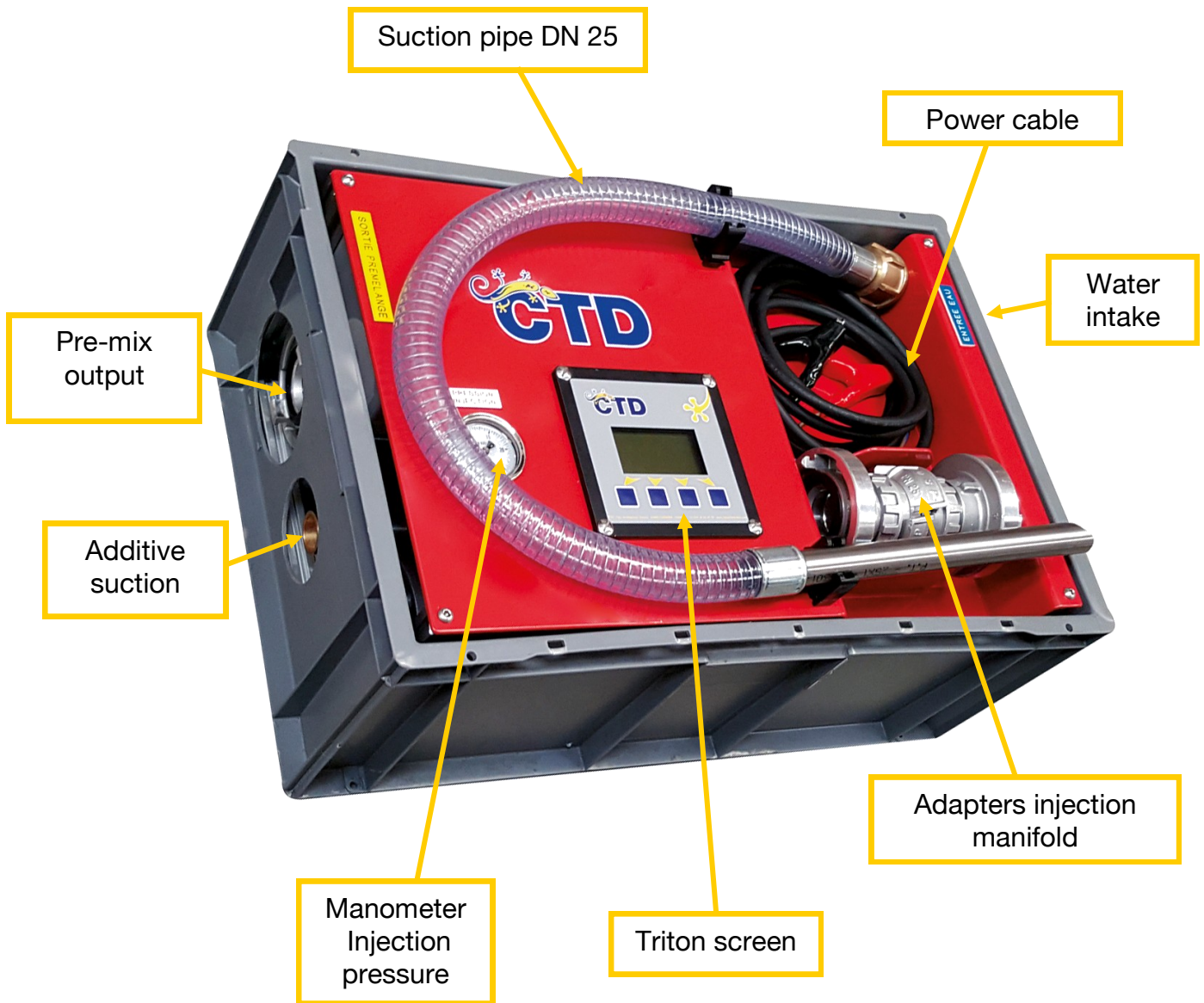
PRESENTATION OF

TRITON MOBILE





Presentation

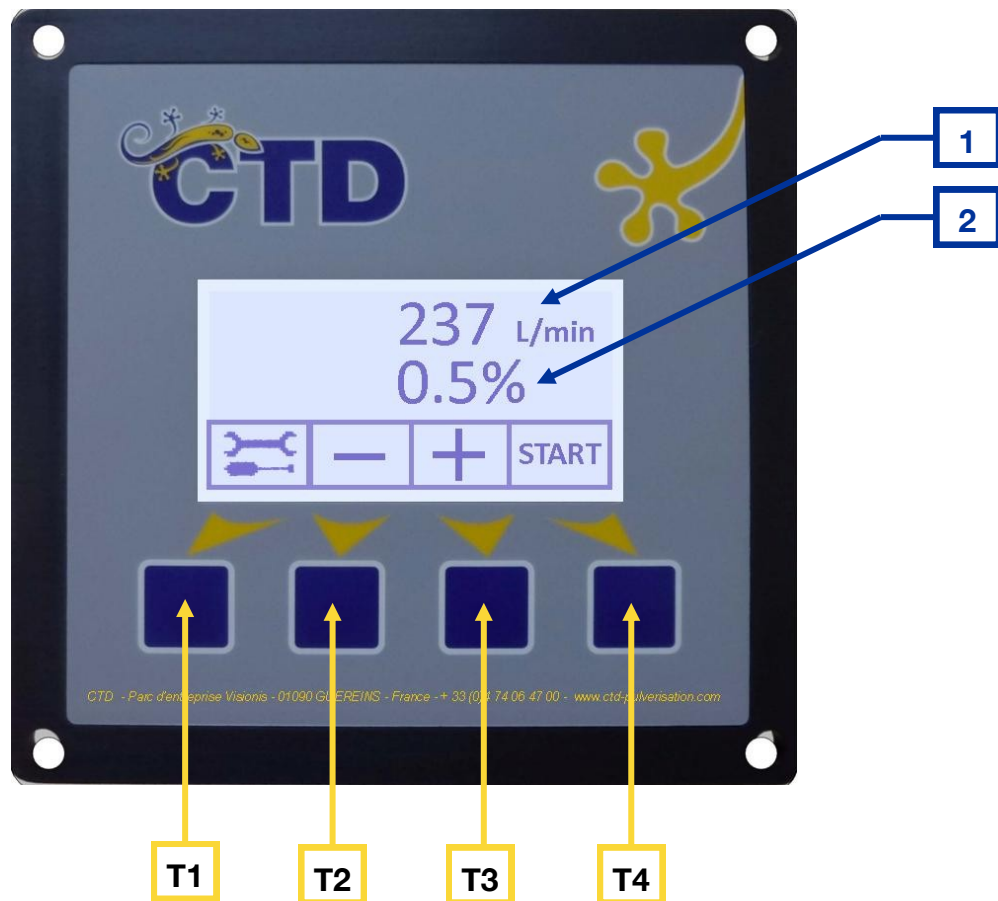


PRESENTATION

OF TRITON SCREEN



Intervention screen

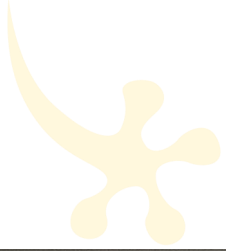


STARTING AND USING BUTTON

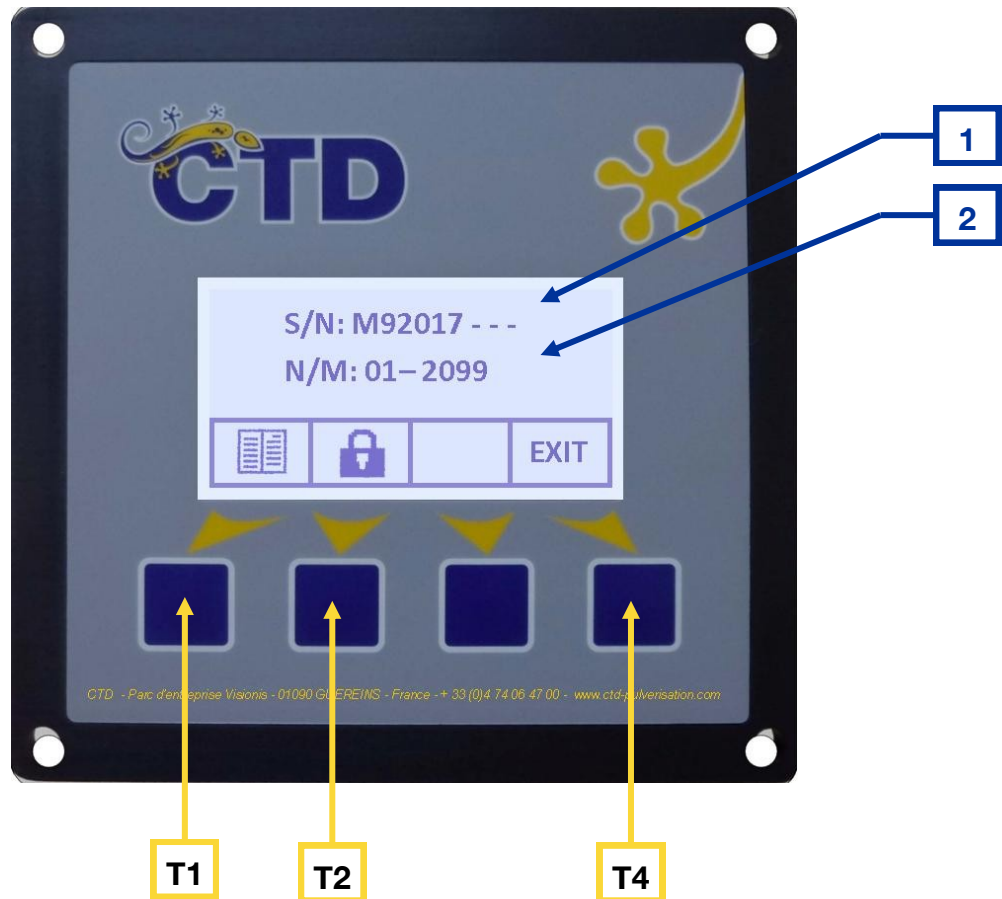
- T1** Button of access to the maintenance screen and priming in intervention.
- T2** Button for reducing the concentration percentage (mini 0.1%)
- T3** Button for increasing the concentration percentage (maxi 1%)
- T4** Button for start and stop the intervention

INFORMATION DISPLAY ON THE SCREEN

- 1** Real time water flow
- 2** Concentration in %



Maintenance screen



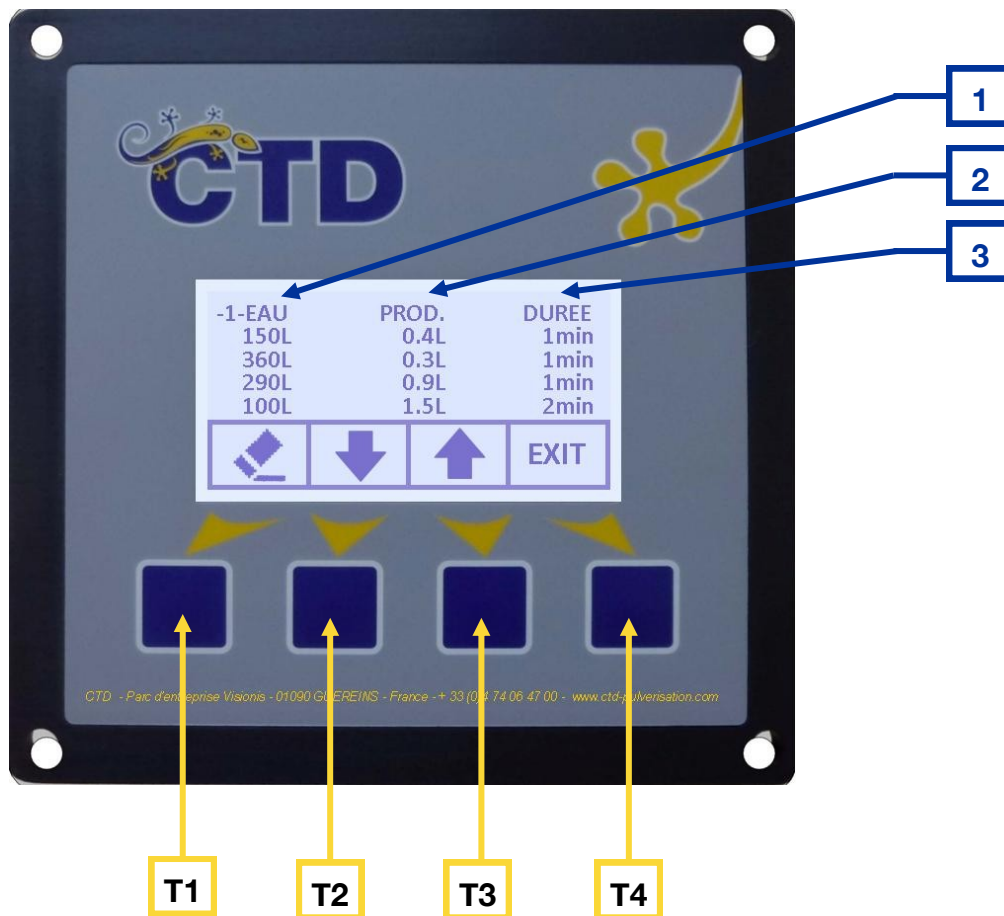
STARTING AND USING BUTTON

- T1** Button for accessing to the DAILY REPORTS
- T2** Button for accessing to the SECURE MENU
- T4** Button EXIT, return to the home screen

INFORMATION DISPLAY ON THE SCREEN

- 1** Serial number of the TRITON
- 2** Date of the next maintenance

Daily report screen



STARTING AND USING BUTTON

- T1** Button « GUM » to clear the daily reports
- T2** Button « NEXT PAGE »
- T3** Button « PREVIOUS PAGE »
- T4** Button EXIT, return to the home screen

INFORMATION DISPLAY ON THE SCREEN

- 1** Quantity of water used
- 2** Quantity of product used
- 3** Interventions duration

INTERVENTION



PROCEDURE

Intervention procedure



- 1 - Connect a water hose to the inlet of the Triton Mobile
- 2 - Connect one or more hose to the premix outlet
- 3 - Connect a suction pipe to the additive intake
- 4 - Connect the Triton Mobile with the power cable on the 24 Vdc truck

- TRITON powers on after switch on the battery switch.

- The screen displays the current water flow and the last concentration used.

- Select the concentration wanted by pressing the « + » and « - » buttons. (Possible change during the intervention)



- Press « **START** » 

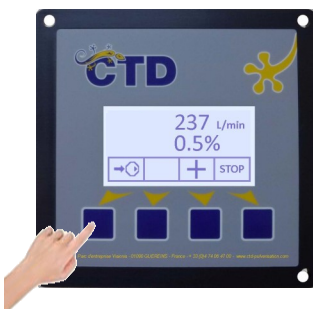
- Dosing begins automatically when the water flow rate is higher than 30 l/mn.
Triton keep the concentration depending the water flow without any action from the users.

- **Check the injection pressure** (Manometer of the injector), which must be greater than the discharge pressure of the water pump.

If the injection pressure is lower than the water pressure, press and hold down the « **PRIMING** » button until the liquid escapes from the prime tube.



Release the button to stop priming and check again the injection pressure.




- At the end of the intervention press the button 



Intervention procedure




Flushing the TRITON.

- Plunge the suction pipe in a canister of water.
- Press the button « **TOOL** » 



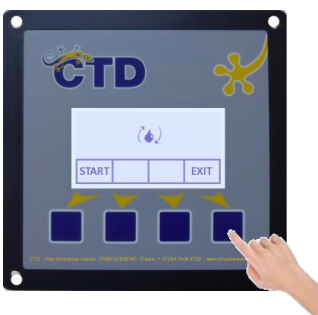
- Press the button « **FLUSHING** » 




- Start the flushing by pressing the button
« **START** » 



- When clear water flows out the priming outlet, stop flushing
by pressing the button 



- Come back to the intervention screen by pressing 2 times
the key 



Specific effects during the intervention

EFFECTS	CAUSES
<ul style="list-style-type: none">The water flow rate value is blinking => Insufficient output	If the flow rate is lower than the measuring threshold, The system does not dispense the liquid and this makes the value blink.



SOLUTIONS
<ul style="list-style-type: none">Increase the nozzle output => The system starts dispensing again when the flow rate becomes higher than the measuring threshold.

EFFETS	CAUSES
<ul style="list-style-type: none">The water flow rate value is blinking => Excessive output	If the flow rate is higher than the maximum measuring performance, the system measures out the liquid at its maximum value. The value flashes to alert the user.

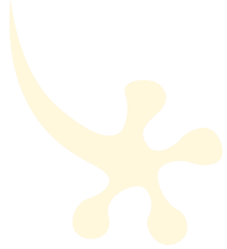


SOLUTIONS
<ul style="list-style-type: none">Reduce the nozzle output or the concentration => The system starts dispensing correctly again when the flow rate falls below the maximum measuring value

MAINTENANCE



PROCEDURE



Maintenance to be accomplished

MAINTENANCE TO BE MADE EVERY 6 MONTHS :

- Control the level of oil inside the piston pump (Type 5W40)

MAINTENANCE TO BE MADE EVERY 3 YEARS :

CTD OFFERS MAINTENANCE CONTRACTS

- Clean out the pump: 0.32 liter of oil is necessary
- Control valves and joints of the pump
- Control hydraulic and electrical circuits
- Clean the paddle of the flowmeter

NOTES :

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HEAD OFFICE

Parc d'entreprise Visionis - 01090 GUÉREINS (France)

Tel. : +33 (0)4 74 06 47 00

Fax. : +33 (0)4 74 06 47 09

Email : incendie@ctd-pulverisation.com

www.ctd-pulverisation.com