CTD

Civil security

Dosing systems *Extinguishing*

Industry

Dosing systems Transfer

CTD PULVERISATION

The dosage and sprayer specialist for over 30 years!

The French equipment designer and manufacturer, **CTD PULVERISATION** has become a benchmark in environmental protection and firefighting.

With many years of experience in crop-spraying behind it, this company, founded in the 1980s, has developed convincing innovative technologies for a wide range of applications.

Based in the Ain department very close to the Beaujolais area, **CTD PULVERISATION** has a modern, functional production site, perfectly adapted to its various types of business.

MADE IN FRANCE

Parks and Gardens Range

CTD PULVERISATION offers a wide range of crop-spraying and dosage equipment for the maintenance of parks and gardens (weeding, watering), treatment of trees, maintenance of streets and urban furniture (disinfection, deodorisation, high-pressure washing), industrial spraying (treatment of roofs, building maintenance, pest control, etc.), and disinfection.

Garden Range

CTD PULVERISATION, a key partner of the HOZELOCK EXEL group, markets sprayers for gardens or for professional use, accessories and spare parts for the main brands in the HOZELOCK EXEL group: Laser, Berthoud, & Tecnoma, and watering accessories for the Hozelock brand.
CTD has a very wide range of spare parts permanently in stock and provides fast repair service for the general public and professionals.

Fire Range

CTD PULVERISATION is the European leader in automatic foam dosing systems for firefighting.
The CTD systems (Cameleon, Salamandre, Triton, etc.) can be used with all types of foam concentrates and additives. They facilitate interventions in case of fire. These systems are designed to be accurate, reliable, to save time on intervention and also water and foam consumption.

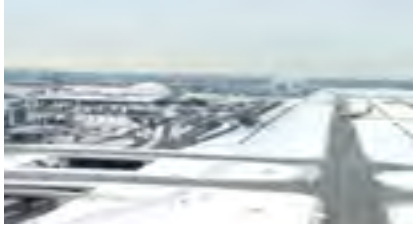
Railway

CTD PULVERISATION offers weeding solutions, embedded on wagon, trucks, SSV vehicles, Quad etc…, for controlling weeds on railroad tracks as well as solutions for treatments cartography.

Anti-riot

CTD PULVERISATION offers an automated dosing system for anti-riot vehicles using tear gas, dye and foam concentrate.

De-icing



CTD PULVERISATION offers a trailer allowing de-icing of strips and parking areas of air stations or parking of hypermarkets.

For more activities, please go to our website www.ctd-pulverisation.com

OUR COMMITMENTS

THE COMPANY

1 Head office based in Guéreins near Lyon
1 Spare parts shop
1 Modern production plant
1 Worldwide distribution network
1 Research and Development office (R&D)
1 Testing station & laboratory
ISO 9001 certified

CUSTOMERS RELATIONS

Customer relations is part of our corporate culture at **CTD**.
Our customer service teams are here to help you to define your needs and guide you to choose the system you need.
They also provides personalised follow-up at customers' sites with training in the use of our equipments.
Our hotline is at your service for all your requests, from project enquiries to any problems you may encounter during use.
Don't hesitate to ask us!

THE AFTER-SALES MINDSET

Our After-Sales teams cover the commissioning, maintenance and repair of all our products ranges in France and worldwide. We understand how important it is for your equipment to be fully functional at all times, and you have our committed support to assist you in this aim.
At the same time, our spare parts department is continually improving the order processing system to meet your expectations.
We make every effort to process your orders in real time.

CTD COMMITS ALONGSIDE PROFESSIONALS

ENVIRONMENTALLY ORIENTATED COMPANY

Clean production plant;
Committed to the protection of the Earth: waste and water responsible management, development of new ecological technologies;
Meets the requirements of the Grenelle Environment Forum.

TECHNICAL EXPERTISE

Research and development office incorporated;
Experience in dosage and sprayer.

SOUCI DE QUALITÉ, RELIABILITY

Certified ISO 9001 since 2012;
Market leader in fire safety;
World development.

INNOVATIVE TECHNOLOGY

Research and development aspect;
Every year, CTD invests more than 5% of turnover on research ;
Partner of the worldwide NO.1 in sprayer, HOZELOCK EXEL group.

OUR KNOW-HOW

CUSTOMISED DESIGN

CTD also designs and manufactures all types of equipment based on specifications.
The company invests over 5 % of its turnover each year in researching new products. If you have a specific project, our teams work for you to **find the best solution for your needs**.

TESTING STATION

CTD conducts the tests of all its systems through a modern control tool gathering pump, measuring sensors and electronics.

Specific equipment already designed on request:

Dosing systems for anti-riot vehicles

Vehicle outfitting

Trailer for submerged motor pump

Foam concentrate storage trailer

Hydrant toggle trailer

CIVIL SECURITY

A large range of systems for firefighting.

Find all our INDUSTRY range
with fixed installations and transfer motor pumps
p. 33 à 41

DOSING SYSTEMS FITTED ON TRUCKS

DOSING SYSTEMS ON SKIDS AND TRAILERS

EXTINGUISHING UNITS FOR 4WD PICK-UP

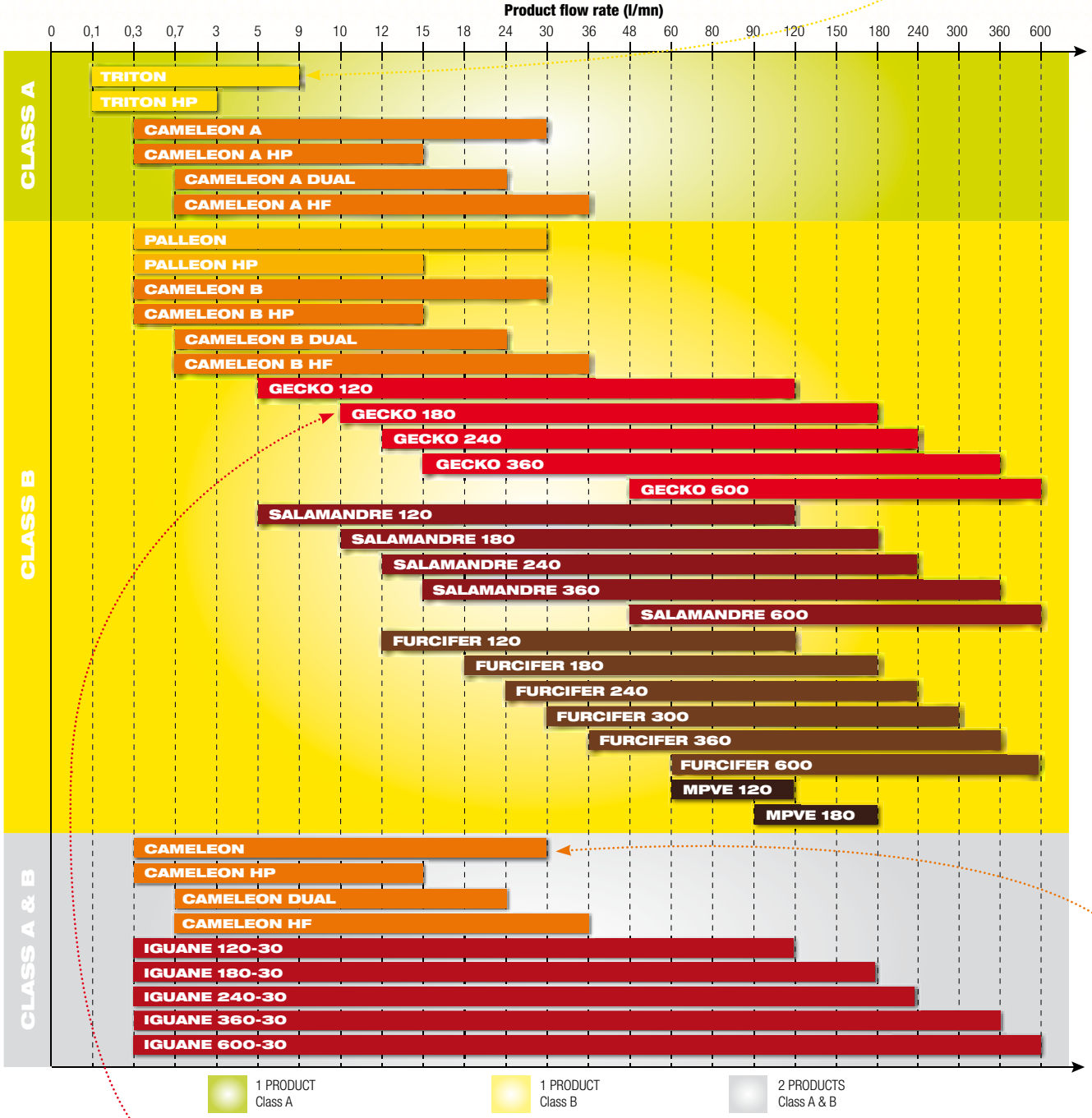
Class A foam Class B foam Class A & B

HOW TO CHOOSE YOUR FOAM DOSING SYSTEM

1. Choose the type(s) of product(s) you are going to use (CLASS A or B, or CLASS A & B foam)

2. Calculate the minimum and maximum product flow rate using the following formula:
Water flow rate (l/mn) x Concentration (%) = Product flow rate (l/mn)

EXAMPLE NO.1
If you want to use a 150 l/mi foam nozzle with 0,5% Class A foam :
150 l/mn x 0,5% = 0,75 l/mn of product
The TRITON system meets your needs.
See page 8



EXAMPLE NO.2
If you want to use a 3000 l/mn monitor with 6% Class B foam :
3000 l/mn x 6% = 180 l/mn of product
The GECKO 180 meets your needs
See page 16

EXAMPLE NO.3
If you want to use a 500 l/mn monitor with 1% Class A foam (which is 5 l/mn product) and a 500 l/mn monitor with 6% Class B foam (which means 30 l/mn product)
Le système CAMÉLÉON correspond à votre besoin
See page 20

CTD is here to advise you and help you choose the equipment best suited to your needs.

Dosing systems fitted on trucks

TRITON

Class A

SPECIFIC STUDIES POSSIBLE

TRITON IS DESIGNED FOR LOW-POWERED FIREFIGHTING VEHICLES USING ONLY CLASS A FOAM.

TRITON
low pressure

- **Pump:** 9 l/mn
- **Pressure:** 15 bar
- **Dosage:** 0.1 to 1% *(other concentrations possible)*
- **Water flow rate (DN40):** 30 - 850 l/mn
  (other flow rates possible - See page 24)
- **Power supply:** Electricity 24VDC - 16A *(other voltages possible)*
- **Weight:** 40 kg

TRITON HP
high pressure

- **Pump:** 3 l/mn
- **Pressure:** 45 bar
- **Dosage:** 0.1 to 1% *(other concentrations possible)*
- **Water flow rate (DN40):** 35 - 350 l/mn
  (other flow rates possible - See page 24)
- **Power supply:** Electricity 24VDC - *16 A (other voltages possible)*
- **Weight:** 40 kg

OPERATING PRINCIPLE

TRITON starts up as soon as the battery master switch is turned on. Dosage begins by pressing the START/STOP button. The + and - buttons allow for quick and easy selection of the desired additive concentration.
Positive injection TRITON system inject CLASS A foam according to real time waterflow as soon as a nozzle is open. TRITON does not require flushing after use.

Power START/STOP

Configuration button

Quick and easy selection of the desired additive concentration (0.1 to 1 % in 0.1 % increments)

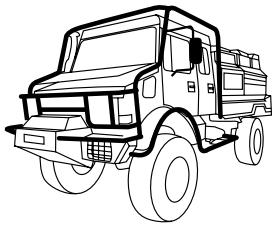
SCREEN BENEFITS

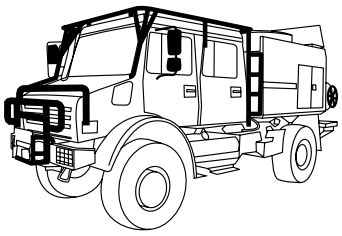
ADAPTABLE
- Optional secondary screen
- Several languages available

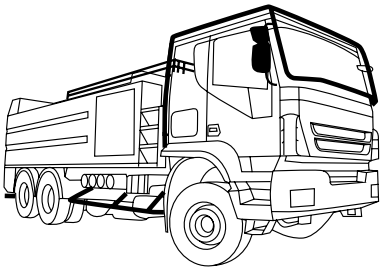
FULL DISPLAY
- Water flow rate
- Actual concentration
- Product tank levels with pressure
- Dosage selection
- Intervention report

UNIT
- 128 x 64 display size
- Waterproof (IP68)
- Impact resistant
- Compact size
- Remote start-up
- Operating temperature between -20°C et +50°C

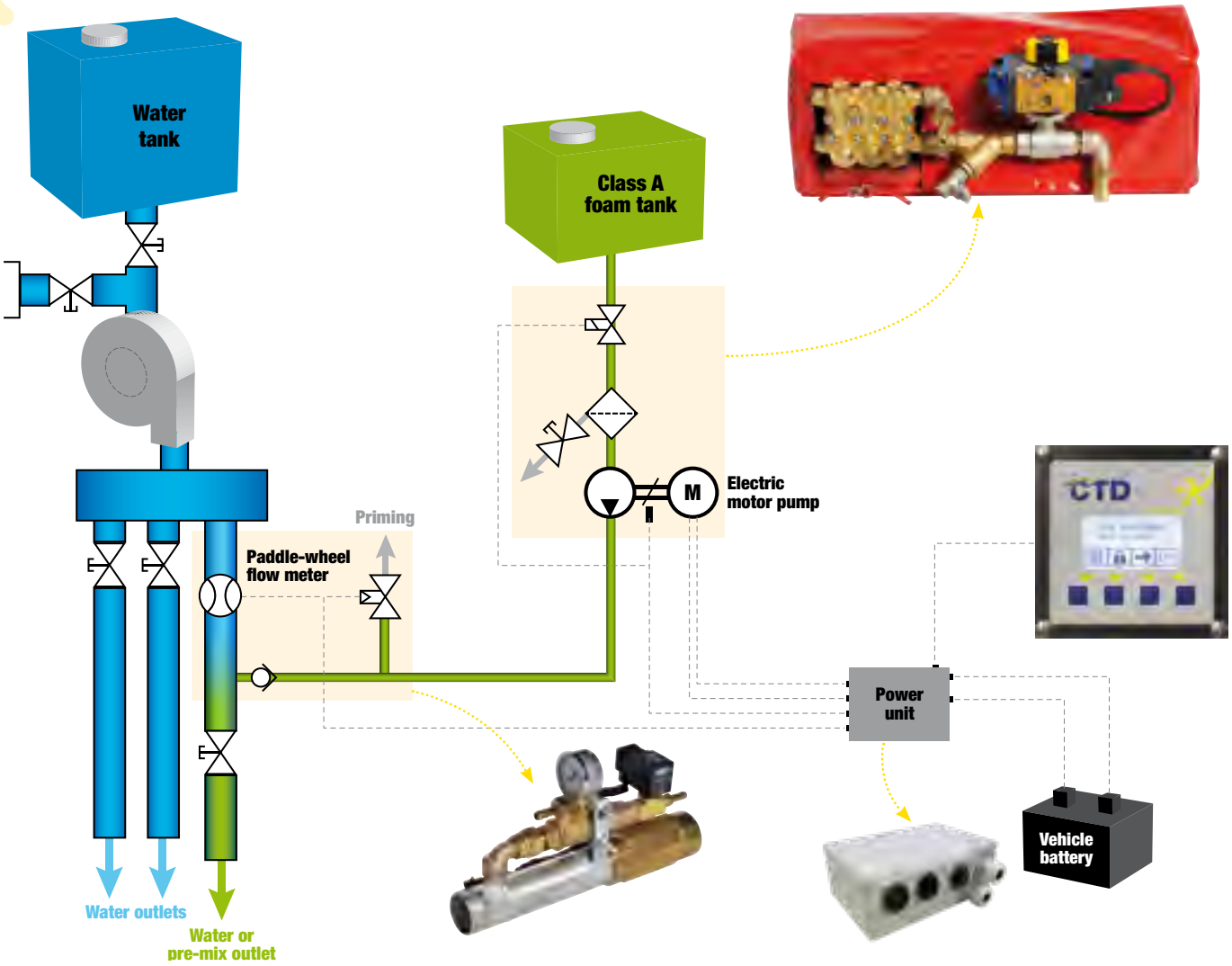
VEHICLES FITTED EXAMPLES







OPERATING DIAGRAM



SYSTEM BENEFITS

HIGH PERFORMANCE

Injecting the product under pressure means TRITON can be used whatever the water flow rate and pressure. Pre-mixing is performed in the truck without any pressure loss this allows fireman deployment to be far from the danger zones.

EFFECTIVE

The use of class A product makes fire extinguishing more effective and reduce fire fighter intervention time.

FUNCTIONAL

- Delivered in a pre-mounted kit
- Can be fitted on all types of vehicles
- Compatible with all Class A additives
- Easy to install (new vehicles or vehicles already in service)
- Light weight and compact size
- Easy maintenance

SIMPLE

- Quick start-up
- Instantaneous production of foam
- No require flushing

ECONOMICAL

Quicker extinguishing means less water consumption.

Mobile version available
TRITON MOBILE

- Stand-alone system which only requires a connection to the vehicle's 24V power supply using the plug provided.
- Can be stored in the boot thanks to its compact size
- L = 600 mm x W = 400 mm x H = 280 mm

TRITON MOBILE

- **Pump:** 9 l/mn
- **Pressure:** 15 bar
- **Dosage:** 0.1 to 1%
  (other concentrations possible)
- **Water flow rate (DN40):** 30 - 850 l/mn
- **Power supply:** Electricity 24VDC - 16A
  Electricity 12VDC - 32A
- **Weight:** 33 kg

CAMELEON A

Class A

SPECIFIC STUDIES POSSIBLE

CAMELEON A IS DESIGNED FOR MEDIUM-POWER FIREFIGHTING VEHICLES USING CLASS A.

CAMELEON A
low pressure

- **Pump:** 30 l/mn
- **Pressure:** 12 bar
- **Dosage:** 0.1 to 1%
  (other concentrations possible)
- **Water flow rate (DN65):** 50 - 2000 l/mn
  (other flow rates possible - See page 24)
- **Power supply:** Electricity 24VDC-60A
  (other voltages possible)
- **Weight:** 65 kg

CAMELEON A HP
high pressure

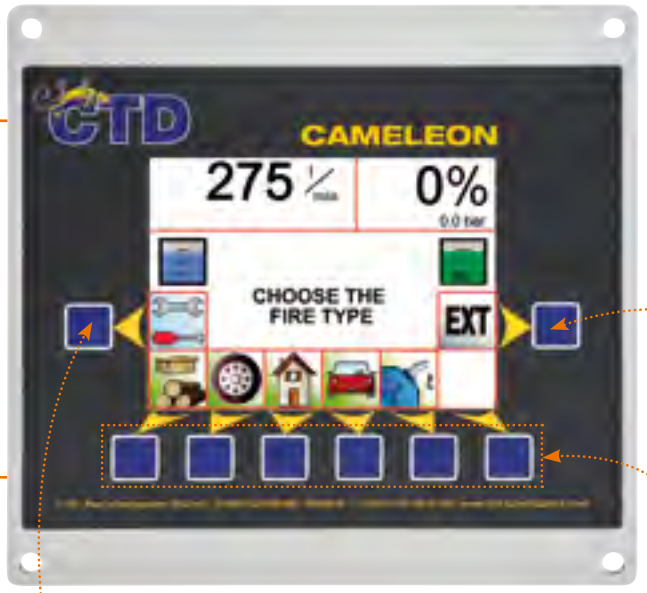
- **Pump:** 15 l/mn
- **Pressure:** 40 bar
- **Dosage:** 0.1 to 1%
  (other concentrations possible)
- **Water flow rate (DN40):** 35 - 350 l/mn
  (other flow rates possible - See page 24)
- **Power supply:** Electricity 24VDC-110A
  (other voltages possible)
- **Weight:** 65 kg

CAMELEON A HF
high flow

- **Pump:** 36 l/mn
- **Pressure:** 12 bar
- **Dosage:** 0.1 to 1%
  (other concentrations possible)
- **Water flow rate (DN65):** 50 - 2000 l/mn
  (other flow rates possible - See page 24)
- **Power supply:** Electricity 24VDC-90A
  (other voltages possible)
- **Weight:** 65 kg

OPERATING PRINCIPLE

CAMELEON A starts up as soon as the battery master switch is turned on. Select one of the six concentrations will automatically prime the pump then inject the foam selected according to real time water flow. Single point positive injection system involves an immediat foam production. After intervention, CAMELEON A automatically starts a flushing cycle.



External suction button

Configuration button

Intervention keys

SCREEN BENEFITS

UNIT

- Colour screen
- 6” display size
- Waterproof (IP68)
- Impact resistant
- Compact size
- Remote start-up
- Operating temperature between -20°C and +50°C

FULL DISPLAY

- Water flow rate
- Actual concentration
- Dosage icons
- Foam injection pressure
- Product tank level with capacity
- Autonomy

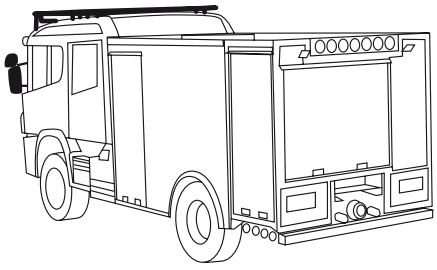
MONITORING

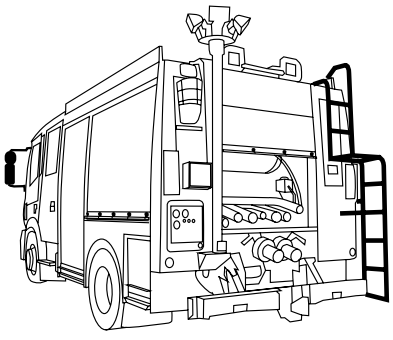
- Intervention report
- Fault log
- Training mode

ADAPTABLE

- Customisable icons
- Remote start-up
- Secondary screen option is possible
- Download intervention report by bluetooth
- Several languages available
- CAN Open external link

VEHICLES FITTED EXAMPLES



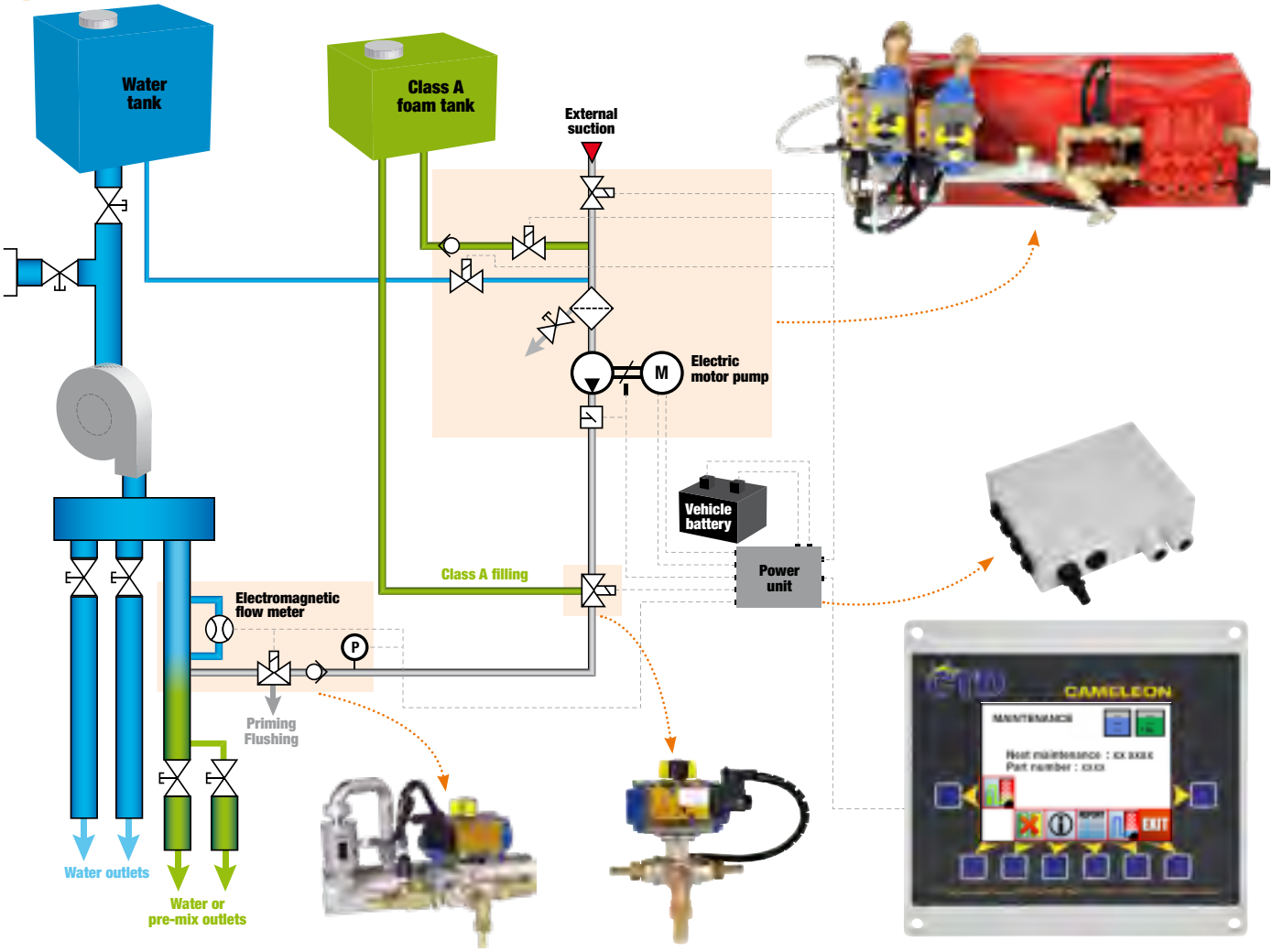


CAMELEON A

Class A

EN 16327

OPERATING DIAGRAM



SYSTEM BENEFITS

HIGH PERFORMANCE

Injecting the product under pressure means CAMELEON A can be used whatever the water flow rate and pressure. Pre-mixing is performed in the truck without any pressure loss this allows fireman deployment to be far from the danger zones.

FUNCTIONAL

- Can be fitted on all types of vehicles
- Delivered in a pre-mounted kit
- Compatible with all Class A products
- Easy to install
- Operating temperature between -20°C and +50°C
- Light weight and compact size
- Easy maintenance

EFFECTIVE

A training mode allows the equipment to be tested without foam use.
CAMELEON A dosing accuracy considerably reduces the amounts of product used during operations.
The use of class A products makes fire extinguishing more effective and reduces firefighter intervention time.
The possibility of injecting the product directly from an external container increases the autonomy of the dosage system.
Installing tanks for class A products directly on the vehicle combined with the CAMELEON A's tank filling function reduces product handling.

DUAL version available

CAMELEON DUAL

• CAMELEON DUAL is designed for firefighting vehicles equipped with a LP/HP water pump and using class A foam at different pressures.

LP/HP MIXED USE

CAMELEON DUAL allows the product to be injected either in the low pressure part of the water pump or the high pressure part, by using a selection switch. This means just one system is needed for LP/HP foam production.

CAMELEON DUAL
low and high pressure

- **Pump:** 30 l/mn in LP and 24 l/mn in HP
- **Pressure:** 12 bar in LP and 35 bar in HP
- **Dosage:** 0.1 to 1% *(other concentrations possible)*
- **LP water flow rate (DN65):** 50 - 2000 l/mn *(other flow rates possible - See page 24)*
- **HP water flow rate (DN40):** 35 - 350 l/mn *(other flow rates possible - See page 24)*
- **Power supply:** Electricity 24VDC - 140 A *(other voltages possible)*
- **Weight:** 80 kg

PALLEON

Class B

SPECIFIC STUDIES POSSIBLE

PALLEON IS DESIGNED FOR FIREFIGHTING VEHICLES USING ONLY CLASS B FOAM.

PALLEON
low pressure

- **Pump :** 30 l/mn
- **Pressure :** 12 bar
- **Dosage :** 1 à 6% *(other concentrations possible)*
- **Water flow rate (DN65):** 50-2000 l/mn
  (other flow rates possible - See page 24)
- **Power supply :** Electricity 24V - 60A *(other voltages possible)*
- **Weight:** 60 kg

PALLEON HP
high pressure

- **Pump :** 15 l/mn
- **Pressure :** 40 bar
- **Dosage :** 1 à 6% *(other concentrations possible)*
- **Water flow rate (DN40):** 35-350 l/mn
  (other flow rates possible - See page 24)
- **Power supply :** Electricity 24V - 110A *(other voltages possible)*
- **Weight:** 60 kg

OPERATING PRINCIPLE

PALLEON starts up as soon as the battery master switch is turned on. Dosage begins by pressing the START/STOP button. The + and - buttons allow for quick and easy selection of the desired CLASS B foam concentration.
Positive injection PALLEON system inject CLASS B foam according to real time waterflow as soon as a nozzle is open. After intervention, PALLEON automatically starts a flushing cycle.

Power START/STOP

Configuration button

Quick and easy selection of the desired CLASS B foam concentration (1 to 6 % in 0.1 % increments)

SCREEN BENEFITS

UNIT

- 128 x 64 display size
- Waterproof (IP68)
- Impact resistant
- Compact size
- Remote start-up
- Operating temperature between -20°C and +50°C

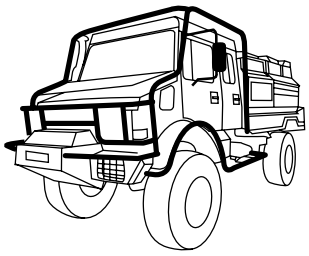
FULL DISPLAY

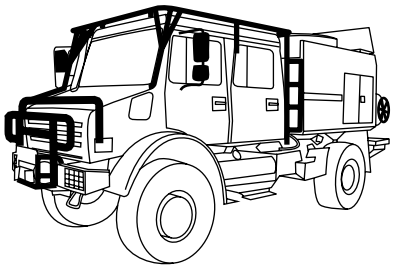
- Water flow rate
- Concentration
- Product tank level with capacity
- Dosage selection
- Intervention report

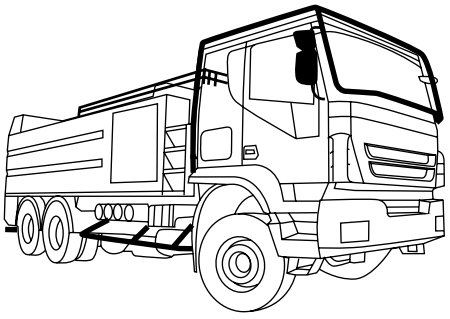
ADAPTABLE

- Secondary screen option is possible
- Several languages available

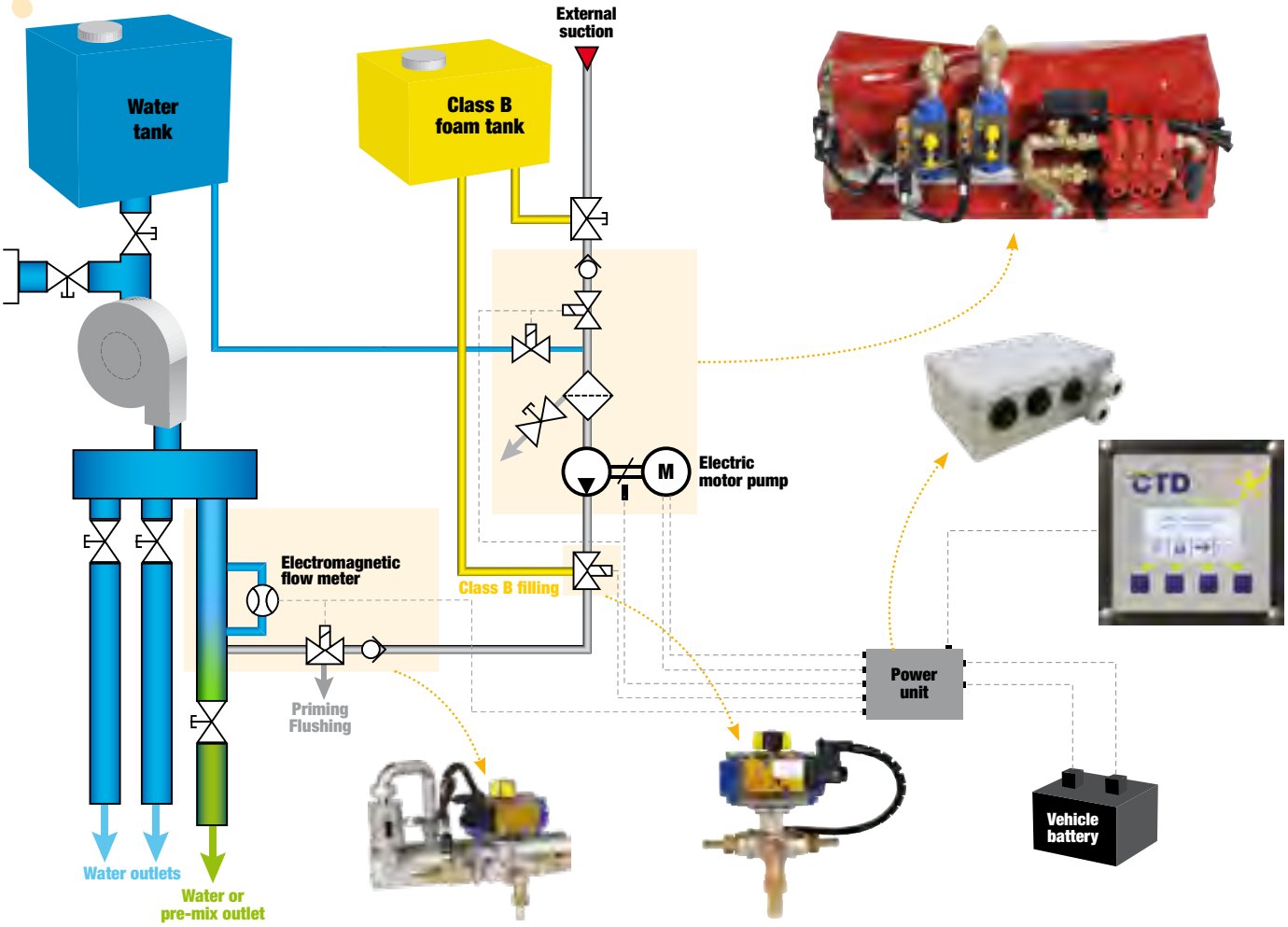
VEHICLES FITTED EXAMPLES







OPERATING DIAGRAM



SYSTEM BENEFITS

EFFECTIVE

The use of class B product makes fire extinguishing more effective and reduces firefighter intervention time.
The possibility of injecting the product directly from an external container increases the autonomy of the dosage system.
Installing tanks for class B product directly on the vehicle combined with the tank filling function reduces product handling.

HIGH PERFORMANCE

Injecting the product under pressure means PALLEON can be used whatever the water flow rate and pressure. Pre-mixing is performed in the truck without any pressure loss this allows fireman deployment to be far from the danger zones.

FUNCTIONAL

- Can be fitted on all types of vehicles
- Delivered in a pre-mounted kit
- Compatible with all Class B products
- Easy to install
- Operating temperature between -20°C and +50°C
- Light weight and compact size
- Easy maintenance

UPGRADABLE

- External suction
- Product tank filling from the ground
- Injection on LP or HP system

INTUITIVE

- Easy start-up
- Didactic screen
- Automatic flushing

Mobile version available
PALLEON MOBILE

- Stand-alone system which only requires a connection to the vehicle's 24V power supply using the plug provided.
- Can be stored in the boot thanks to its compact size
- L = 600 mm x W = 400 mm x H = 320 mm

PALLEON MOBILE

- **Pump :** 24 l/mn
- **Pressure :** 15 bar
- **Dosage :** 1 à 6%
  (other concentrations possible)
- **Water flow rate (DN40):** 30-850 l/mn
- **Power supply :** Electricity 24V - 60 A
  (other voltages possible)
- **Weight:** 41 kg

CAMELEON B

Class B

SPECIFIC STUDIES POSSIBLE

CAMELEON B IS DESIGNED FOR MEDIUM-POWER FIREFIGHTING VEHICLES USING CLASS B FOAM.

CAMELEON B
low pressure

- **Pump:** 30 l/mn
- **Pressure:** 12 bar
- **Dosage:** 0.5 to 6%
  (other concentrations possible)
- **Water flow rate (DN65):** 50 - 2000 l/mn
  (other flow rates possible - See page 24)
- **Power supply:** Electricity 24VDC-60A
  (other voltages possible)
- **Weight:** 65 kg

CAMELEON B HP
high pressure

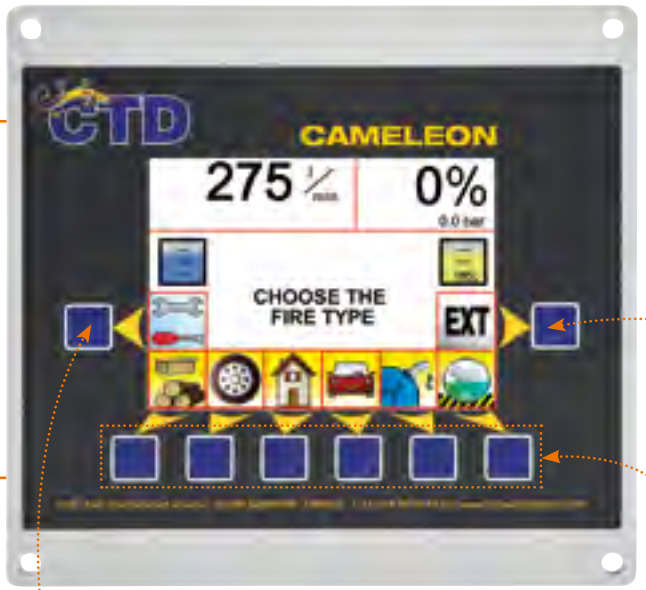
- **Pump:** 15 l/mn
- **Pressure:** 40 bar
- **Dosage:** 0.5 to 6%
  (other concentrations possible)
- **Water flow rate (DN40):** 35 - 350 l/mn
  (other flow rates possible - See page 24)
- **Power supply:** Electricity 24VDC-110A
  (other voltages possible)
- **Weight:** 65 kg

CAMELEON B HF
high flow

- **Pump:** 36 l/mn
- **Pressure:** 12 bar
- **Dosage:** 0.5 to 6%
  (other concentrations possible)
- **Water flow rate (DN65):** 50 - 2000 l/mn
  (other flow rates possible - See page 24)
- **Power supply:** Electricity 24VDC-90A
  (other voltages possible)
- **Weight:** 65 kg

OPERATING PRINCIPLE

CAMELEON B starts up as soon as the battery master switch is turned on. Select one of the six concentrations will automatically prime the pump then inject the foam selected according to real time water flow. Single point positive injection system involves an immediat foam production. After intervention, CAMELEON B automatically starts a flushing cycle.



External suction button

Configuration button

Intervention keys

SCREEN BENEFITS

UNIT

- Colour screen
- 6” display size
- Waterproof (IP68)
- Impact resistant
- Compact size
- Remote start-up
- Operating temperature between -20°C and +50°C

FULL DISPLAY

- Water flow rate
- Actual concentration
- Dosage icons
- Foam injection pressure
- Product tank level with capacity
- Autonomy

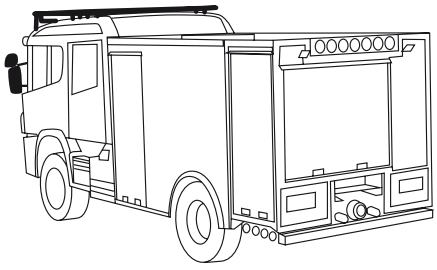
MONITORING

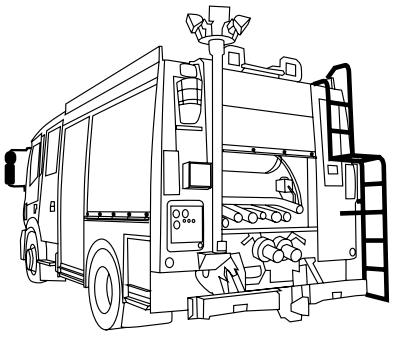
- Intervention report
- Fault log
- Training mode

ADAPTABLE

- Customisable icons
- Remote start-up
- Secondary screen option is possible
- Download intervention report by bluetooth
- Several languages available
- CAN Open external link

VEHICLES FITTED EXAMPLES



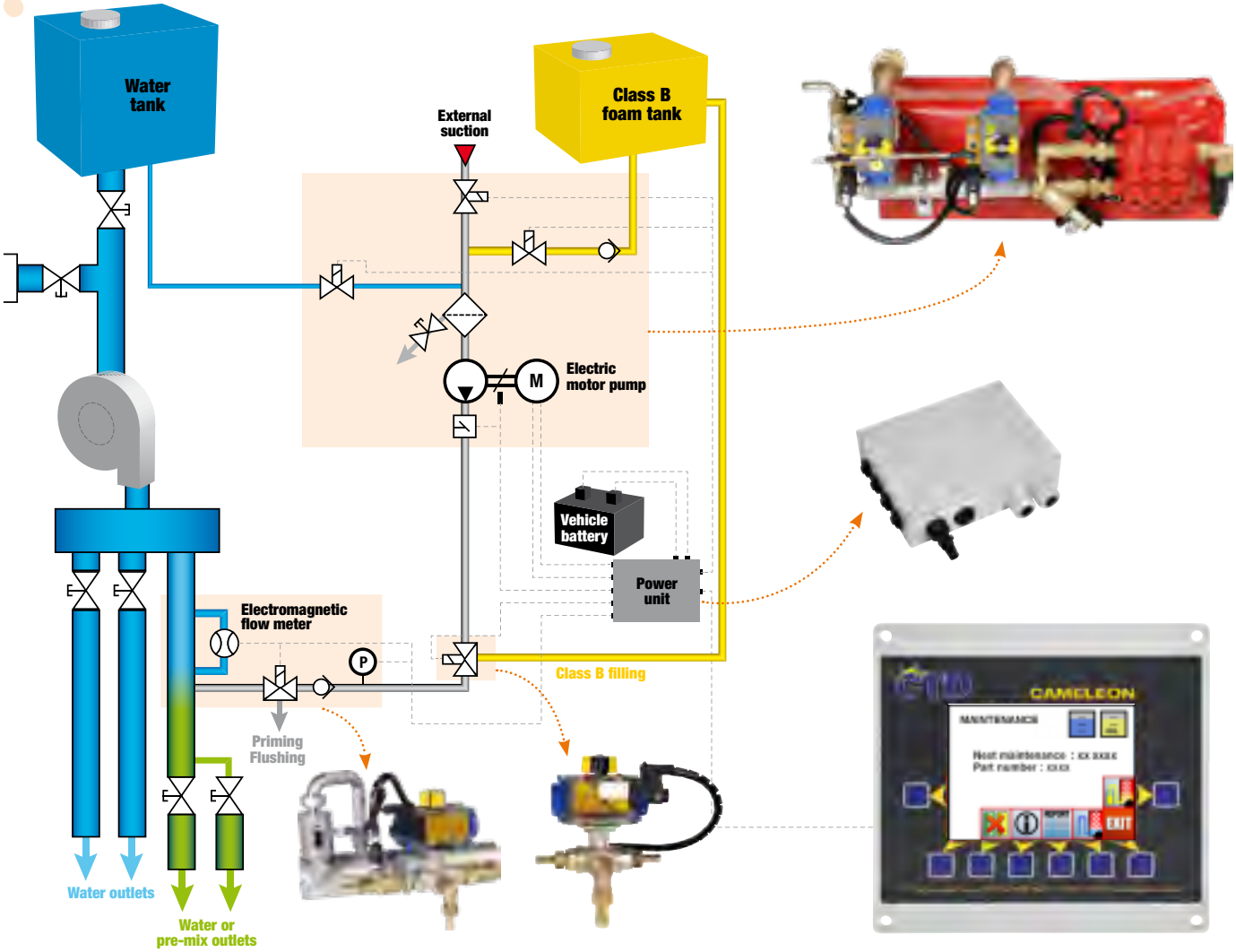


CAMELEON B

Class B

EN 16327

OPERATING DIAGRAM



SYSTEM BENEFITS

HIGH PERFORMANCE

Injecting the product under pressure means CAMELEON B can be used whatever the water flow rate and pressure. Pre-mixing is performed in the truck without any pressure loss this allows fireman deployment to be far from the danger zones.

FUNCTIONAL

- Can be fitted on all types of vehicles
- Delivered in a pre-mounted kit
- Compatible with all Class B products
- Easy to install
- Operating temperature between -20°C and +50°C
- Light weight and compact size
- Easy maintenance

EFFECTIVE

A training mode allows the equipment to be tested without foam use.
CAMELEON B dosing accuracy considerably reduces the amounts of product used during operations.
The use of class B products makes fire extinguishing more effective and reduces firefighter intervention time.
The possibility of injecting the product directly from an external container increases the autonomy of the dosage system.
Installing tanks for class B products directly on the vehicle combined with the CAMELEON B's tank filling function reduces product handling.

DUAL version available
CAMELEON DUAL

• CAMELEON DUAL is designed for firefighting vehicles equipped with a LP/HP water pump and using class B foam at different pressures.

LP/HP MIXED USE

CAMELEON DUAL allows the product to be injected either in the low pressure part of the water pump or the high pressure part, by using a selection switch. This means just one system is needed for LP/HP foam production.

CAMELEON DUAL
low and high pressure

- **Pump:** 30 l/mn in LP and 24 l/mn in HP
- **Pressure:** 12 bar in LP and 35 bar in HP
- **Dosage:** 0.5 to 6% *(other concentrations possible)*
- **LP water flow rate (DN65):** 50 - 2000 l/mn *(other flow rates possible - See page 24)*
- **HP water flow rate (DN40):** 35 - 350 l/mn *(other flow rates possible - See page 24)*
- **Power supply:** Electricity 24VDC - 140 A *(other voltages possible)*
- **Weight:** 80 kg

GECKO

Class B

SPECIFIC STUDIES POSSIBLE

GECKO IS DESIGNED FOR HIGH-POWER FIREFIGHTING VEHICLES USING ONLY CLASS B FOAM

GECKO

- **Pump:** 120 to 600 l/mn *(depending on the model)*
- **Pressure:** 16 bar
- **Dosage:** 1 to 6% *(other concentrations possible)*
- **Water flow rate:** 80 - 20,000 l/mn *(depending on the size of the manifold - See page 24)*
- **Energy:** Diesel, Petrol, Hydraulic, Power take-off
- **Weight:** Depending on the model

A RANGE OF 5 MODELS
(details p.6)

OPERATING PRINCIPLE

GECKO starts up as soon as the battery master switch is turned on. Selecting a concentration starts the pump with an automatic priming. GECKO injects the foam concentrate under pressure according to the water flow rate as soon as a nozzle is opened and automatically regulates the volume of foam concentrate via a regulation valve. External suction allows a huge using autonomy. After intervention, GECKO automatically starts a flushing cycle.

External suction button

Configuration button

Intervention keys

SCREEN BENEFITS

UNIT

- Colour screen
- 6" display size
- Waterproof (IP68)
- Impact resistant
- Compact size
- Remote start-up
- Operating temperature between -20°C and +50°C

FULL DISPLAY

- Water flow rate
- Actual concentration
- Pre-defined concentration icons
- Water pressure and foam injection pressure
- Product tank levels with capacity
- Autonomy

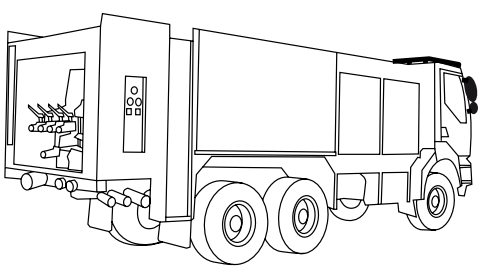
MONITORING

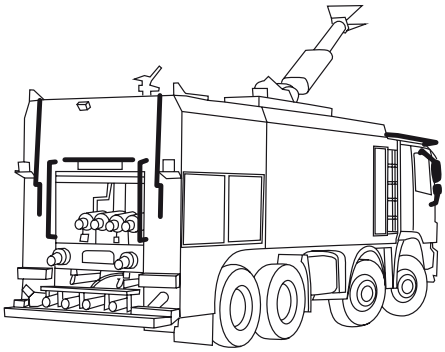
- Intervention report
- Fault log

ADAPTABLE

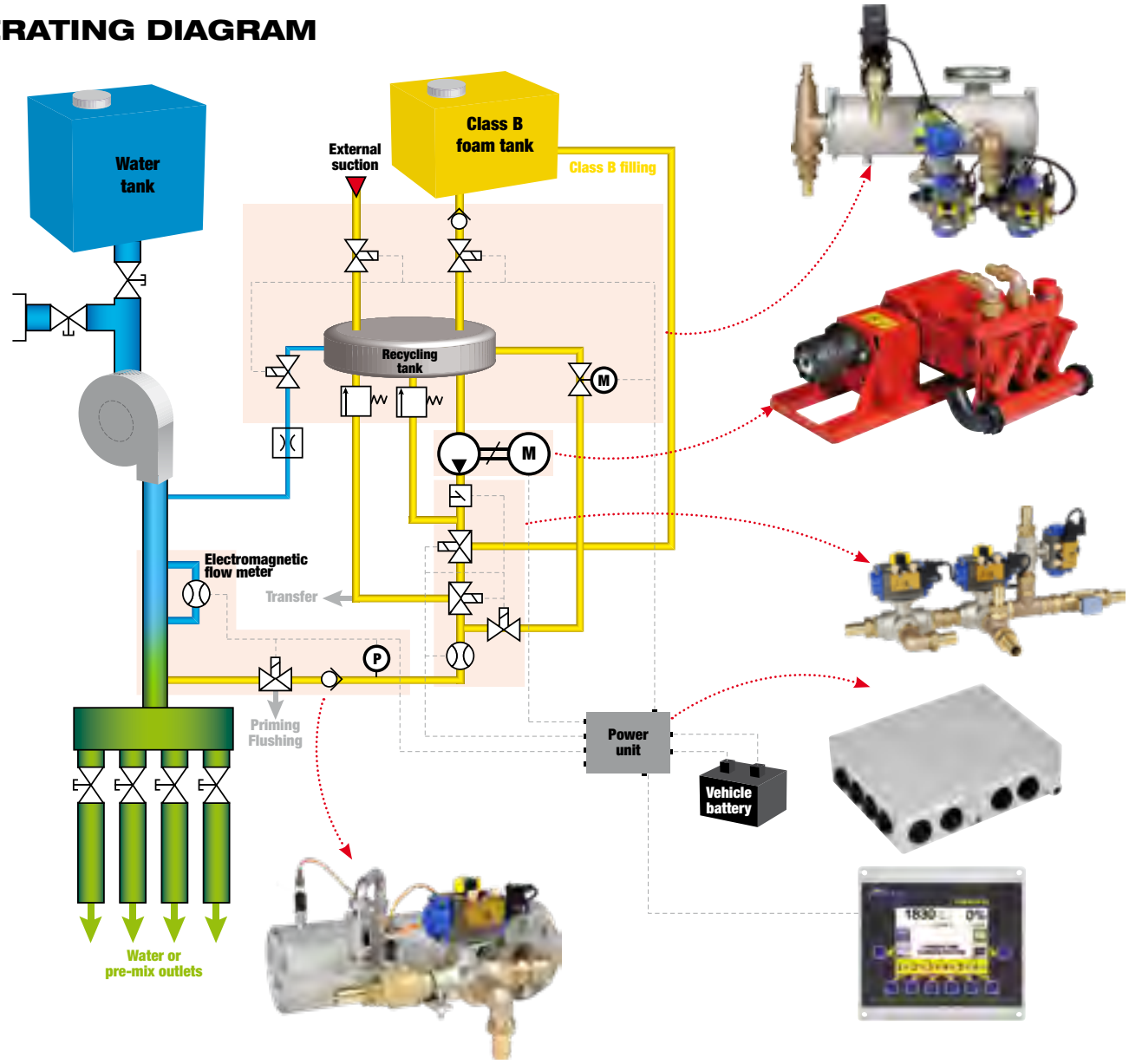
- Customisable icons
- Secondary screen option is possible
- Download intervention report by bluetooth
- Several languages available

VEHICLES FITTED EXAMPLES





OPERATING DIAGRAM



SYSTEM BENEFITS

HIGH PERFORMANCE

Injecting the product under pressure means GECKO can be used whatever the water flow rate and pressure. This makes it possible to use considerable lengths of hose line. Pre-mixing is performed in the truck without any pressure loss this allows fireman deployment to be far from the danger zones.

ECONOMICAL

A training mode allows the equipment to be tested without foam use
GECKO dosing accuracy considerably reduces the amounts of product used during operations.

COMPREHENSIVE

- Automatic priming and flushing
- External suction
- Product tank filling from the ground
- Transfer of product to an external container
- Automatic frost protection

FUNCTIONAL

- Compatible with all Class B foam concentrates
- Can be fitted on all types of vehicles
- Available as a pre-mounted kit or mounted on its own frame
- Thermal engines or hydraulic motor
- Easy maintenance

EFFECTIVE

Class B foam concentrate use on industrial fires means extinguishing will be faster and easier to cool down more effectively burning areas. The possibility of injecting the product either from the tank onboard the vehicle or directly from an external stock increases the autonomy of the dosing system and allows foam to be continuously produced at a perfectly controlled concentration. The tank filling function means operators does not need to handle the product.

TAILOR-MADE

Each model has an operating range adapted to the needs of the spray apparatus and the types of risk.

FURCIFER

Class B

FURCIFER IS AN "AROUND THE PUMP" FOAM SYSTEM TYPE, INJECTING FOAM DEPENDING OF VARIABLE WATER FLOW DESIGNED FOR HIGH-POWER FIREFIGHTING VEHICLES USING CLASS B FOAM.

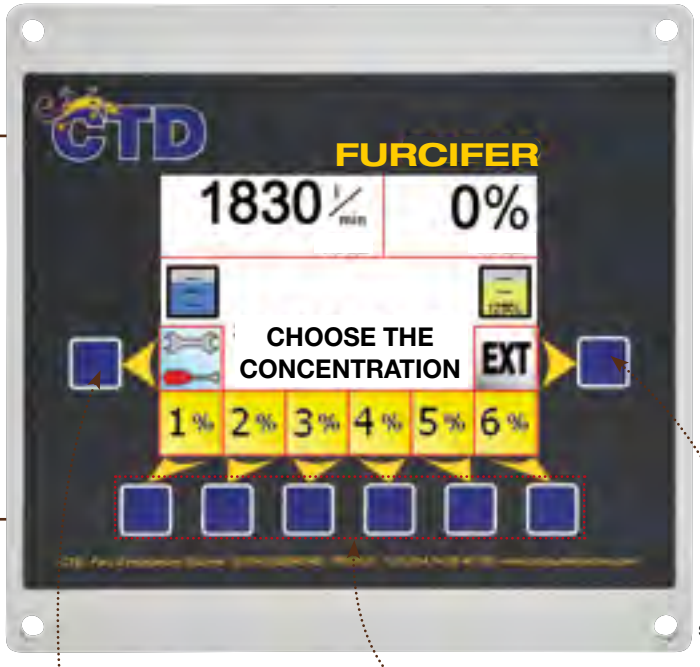
FURCIFER

- **Eductor:** Bronze fittings 1 1/2" NPT - 3" NPT *(depending on the model)*
- **Dosage:** 1 to 6% *(other concentrations possible)*
- **Foam flow rate:** 10 - 600 l/mn *(depending on the model)*
- **Water flow rate:** 250 - 10 000 l/mn *(depending on the model)*
- **Weight:** Depending on the model

A RANGE OF 6 MODELS
(details p.6)

OPERATING PRINCIPLE

The FURCIFER starts up as soon as the battery master switch is turned on.
Selecting a concentration associated with the opening of a nozzle allows to inject the foam concentrate through eductor fitted on the water pump.
A motorized valve automatically regulates the volume of foam concentrate proportionally to water flow.
The system is in the standby when the nozzle is closed.
Pressing the «STOP» button stops the dosage and starts an automatic flushing cycle.



SCREEN BENEFITS

FULL DISPLAY

- Water flow rate
- Actual concentration
- Pre-defined concentration icons
- Product tank levels with capacity
- Autonomy

ADAPTABLE

- Customisable icons
- Secondary screen option is possible
- Download intervention report by bluetooth
- Several languages available

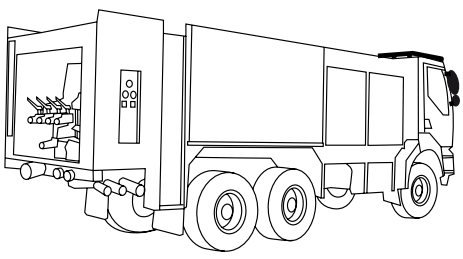
MONITORING

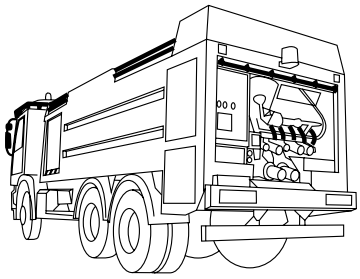
- Intervention report
- Fault log

UNIT

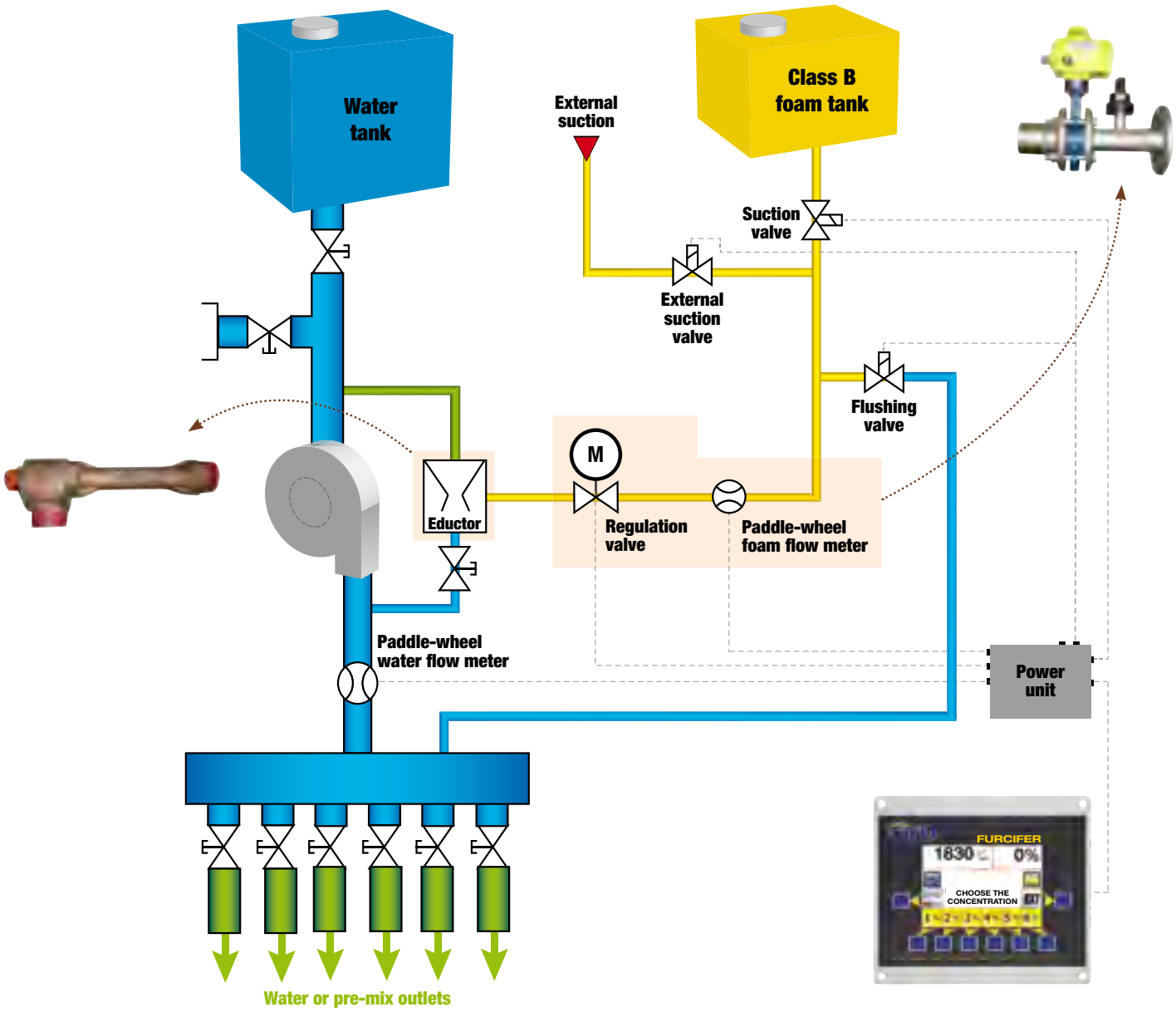
- Colour screen
- 6" display size
- Waterproof (IP68)
- Impact resistant
- Compact size
- Remote start-up
- Operating temperature between -20°C and +50°C

VEHICLES FITTED EXAMPLES





OPERATING DIAGRAM



SYSTEM BENEFITS

- NO FOAM PUMP FOR PRESSURIZING THE FOAM CONCENTRATE
- HIGH PRECISION ELECTRONIC FOAM DOSAGE
- REDUCED SIZE OF COMPONENTS
- EFFECTIVE
- ECONOMICAL
- FUNCTIONAL
- HIGH RELIABILITY

CAMELEON

Class A Class B

CAMELEON IS DESIGNED FOR LOW- AND MEDIUM-POWER FIREFIGHTING VEHICLES USING CLASS A AND/OR CLASS B FOAM.

CAMELEON
low pressure

- **Pump:** 30 l/mn
- **Pressure:** 12 bar
- **Dosage:** 0.1 to 6%
  (other concentrations possible)
- **Water flow rate (DN65):** 50 - 2000 l/mn
  (other flow rates possible - See page 24)
- **Power supply:** Electricity 24VDC-60A
  (other voltages possible)
- **Weight:** 70 kg

CAMELEON HP
high pressure

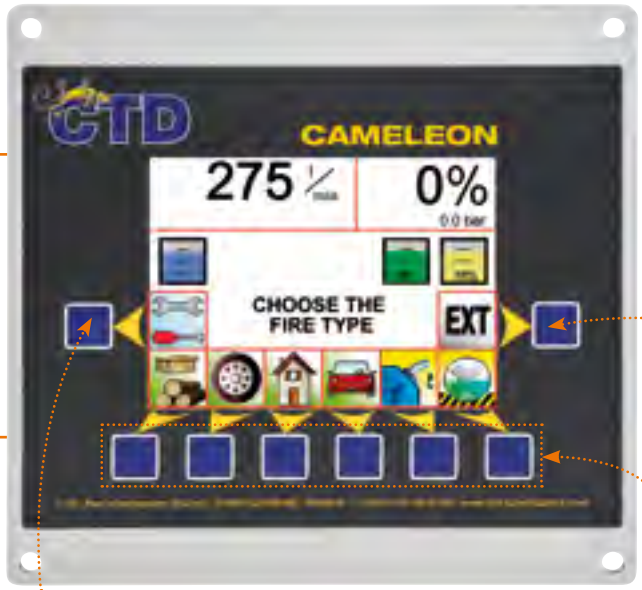
- **Pump:** 15 l/mn
- **Pressure:** 40 bar
- **Dosage:** 0.1 to 6%
  (other concentrations possible)
- **Water flow rate (DN40):** 35 - 350 l/mn
  (other flow rates possible - See page 24)
- **Power supply:** Electricity 24VDC-110A
  (other voltages possible)
- **Weight:** 70 kg

CAMELEON HF
high flow

- **Pump:** 36 l/mn
- **Pressure:** 12 bar
- **Dosage:** 0.1 to 6%
  (other concentrations possible)
- **Water flow rate (DN65):** 50 - 2000 l/mn
  (other flow rates possible - See page 24)
- **Power supply:** Electricity 24VDC-90A
  (other voltages possible)
- **Weight:** 70 kg

OPERATING PRINCIPLE

CAMELEON starts up as soon as the battery master switch is turned on. Select one of the six concentrations will automatically prime the pump then inject the foam selected according to real time water flow. Single point positive injection system involves an immediat foam production. After intervention, CAMELEON automatically starts a flushing cycle.



External suction button

Configuration button

Intervention keys

SCREEN BENEFITS

UNIT

- Colour screen
- 6" display size
- Waterproof (IP68)
- Impact resistant
- Compact size
- Remote start-up
- Operating temperature between -20°C and +50°C

FULL DISPLAY

- Water flow rate
- Actual concentration
- Dosage icons
- Foam injection pressure
- Product tank levels with capacity
- Autonomy

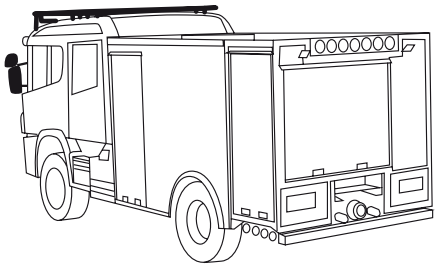
MONITORING

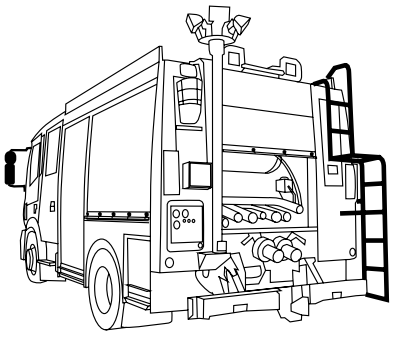
- Intervention report
- Fault log
- Training mode

ADAPTABLE

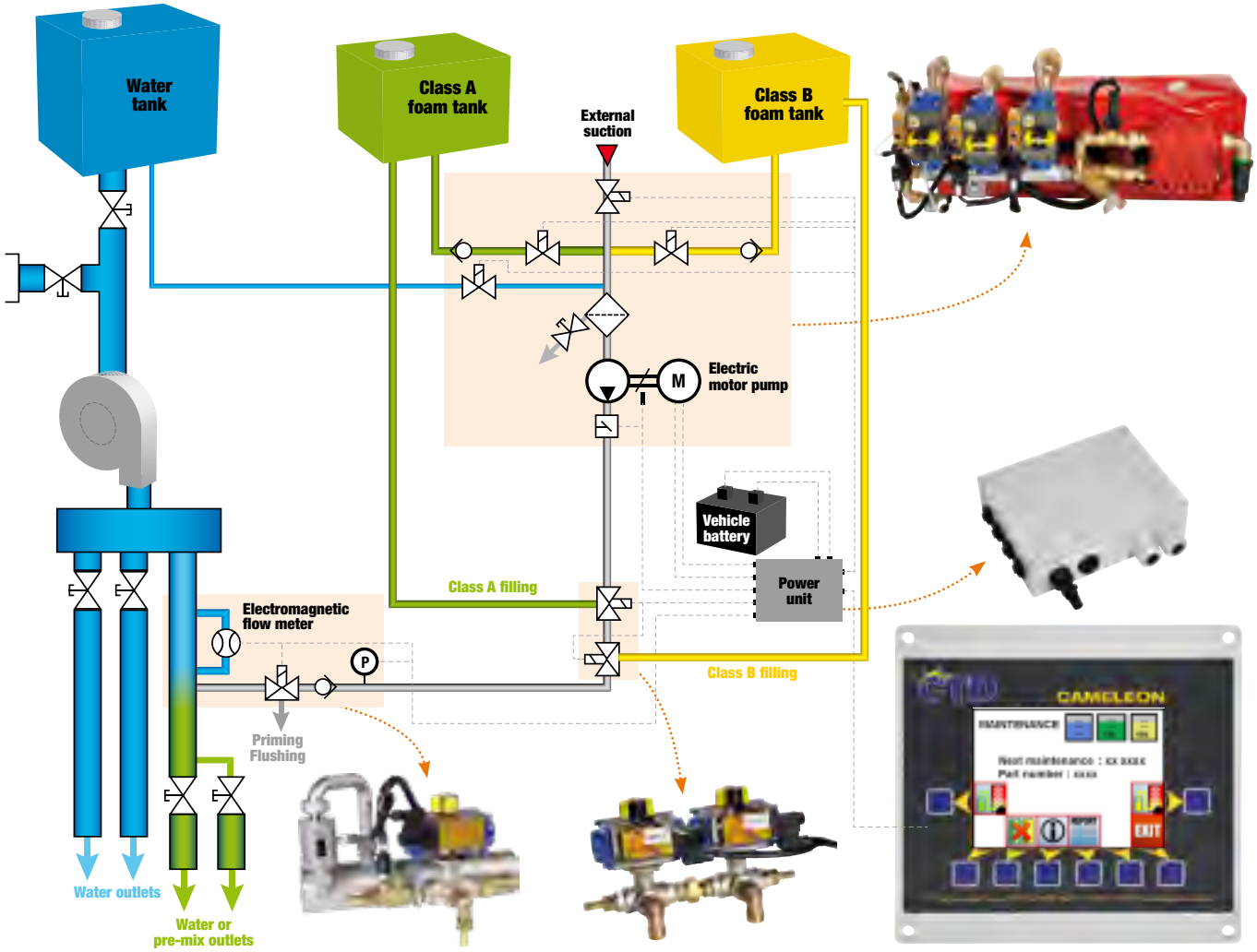
- Customisable icons
- Remote start-up
- Secondary screen option is possible
- Download intervention report by bluetooth
- Several languages available
- CAN Open external link

VEHICLES FITTED EXAMPLES





OPERATING DIAGRAM



SYSTEM BENEFITS

HIGH PERFORMANCE

Injecting the product under pressure means CAMELEON can be used whatever the water flow rate and pressure. Pre-mixing is performed in the truck without any pressure loss this allows fireman deployment to be far from the danger zones.

FUNCTIONAL

- Can be fitted on all types of vehicles
- Delivered in a pre-mounted kit
- Compatible with all Class A and B products
- Easy to install
- Operating temperature between -20°C and +50°C
- Light weight and compact size
- Easy maintenance

EFFECTIVE

A training mode allows the equipment to be tested without foam use.
CAMELEON dosing accuracy considerably reduces the amounts of product used during operations.
The use of class A and B products makes fire extinguishing more effective and reduces firefighter intervention time.
The possibility of injecting the product directly from an external container increases the autonomy of the dosage system.
Installing tanks for class A and B products directly on the vehicle combined with the CAMELEON's tank filling function reduces product handling.

DUAL version available
CAMELEON DUAL

• CAMELEON DUAL is designed for firefighting vehicles equipped with a LP/HP water pump and using class A and/or class B foam at different pressures.

LP/HP MIXED USE

CAMELEON DUAL allows the product to be injected either in the low pressure part of the water pump or the high pressure part, by using a selection switch. This means just one system is needed for LP/HP foam production.

CAMELEON DUAL
low and high pressure

- **Pump:** 30 l/mn in LP and 24 l/mn in HP
- **Pressure:** 12 bar in LP and 35 bar in HP
- **Dosage:** 0.1 to 6% *(other concentrations possible)*
- **LP water flow rate (DN65):** 50 - 2000 l/mn *(other flow rates possible - See page 24)*
- **HP water flow rate (DN40):** 35 - 350 l/mn *(other flow rates possible - See page 24)*
- **Power supply:** Electricity 24VDC - 140 A *(other voltages possible)*
- **Weight:** 80 kg

IGUANE

Class A Class B

SPECIFIC STUDIES POSSIBLE

IGUANE IS DESIGNED FOR HIGH-POWER FIREFIGHTING VEHICLES USING CLASS A & B FOAM

IGUANE
CLASS A FOAM

- **Pump:** 30 l/mn
- **Pressure:** 15 bar
- **Dosage:** 0.1 to 1% *(other concentrations possible)*
- **Water flow rate:** 80 - 20,000 l/mn *(depending on the size of the manifold)*
- **Power supply:** Electricity 24VDC *(other voltages possible)*
- **Weight:** Depending on the model

CLASS B FOAM

- **Pump:** 120 to 600 l/mn *(depending on the model)*
- **Pressure:** 16 bar
- **Dosage:** 1 to 6% *(other concentrations possible)*
- **Water flow rate**: 80 - 20,000 l/mn *(depending on the size of the manifold)*
- **Energy:** Diesel or Hydraulic
- **Weight:** Depending on the model

A RANGE OF 5 MODELS
(details p.6)

OPERATING PRINCIPLE

IGUANE starts up as soon as the battery master switch is turned on.
Selecting a Class A concentration activates the electric pump dosing. IGUANE automatically primes then injects foam concentrate according to the real time water flow. Selecting a Class B concentration starts the hydraulic motor-pump and automatically primes then injects the foam concentrate under pressure.
IGUANE injects the foam concentrate under pressure as soon as a nozzle is opened. A regulation valve automatically adjusts the foam injection according to the real time water flow. IGUANE allows continuous dosing whatever product and water flow rate ranges are used.
After intervention, IGUANE automatically starts a flushing cycle.

External suction button

Configuration button

Intervention keys

SCREEN BENEFITS

UNIT

- Colour screen
- 6" display size
- Waterproof (IP68)
- Impact resistant
- Compact size
- Remote start-up
- Operating temperature between -20°C and +50°C

FULL DISPLAY

- Water flow rate
- Actual concentration
- Predefined concentration icons for the two products
- Water pressure and injection pressure for Class A & B foam
- Product tank levels with capacity
- Autonomy

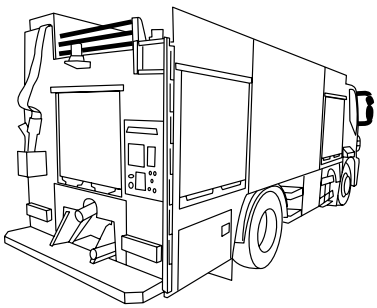
ADAPTABLE

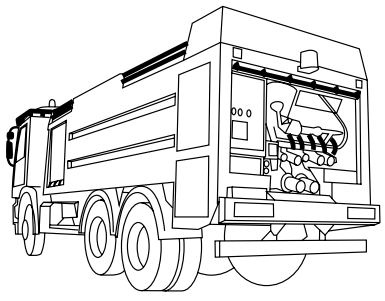
- Customisable icons
- Secondary screen option is possible
- Download intervention report by bluetooth
- Several languages available

MONITORING

- Intervention report
- Fault log

VEHICLES FITTED EXAMPLES

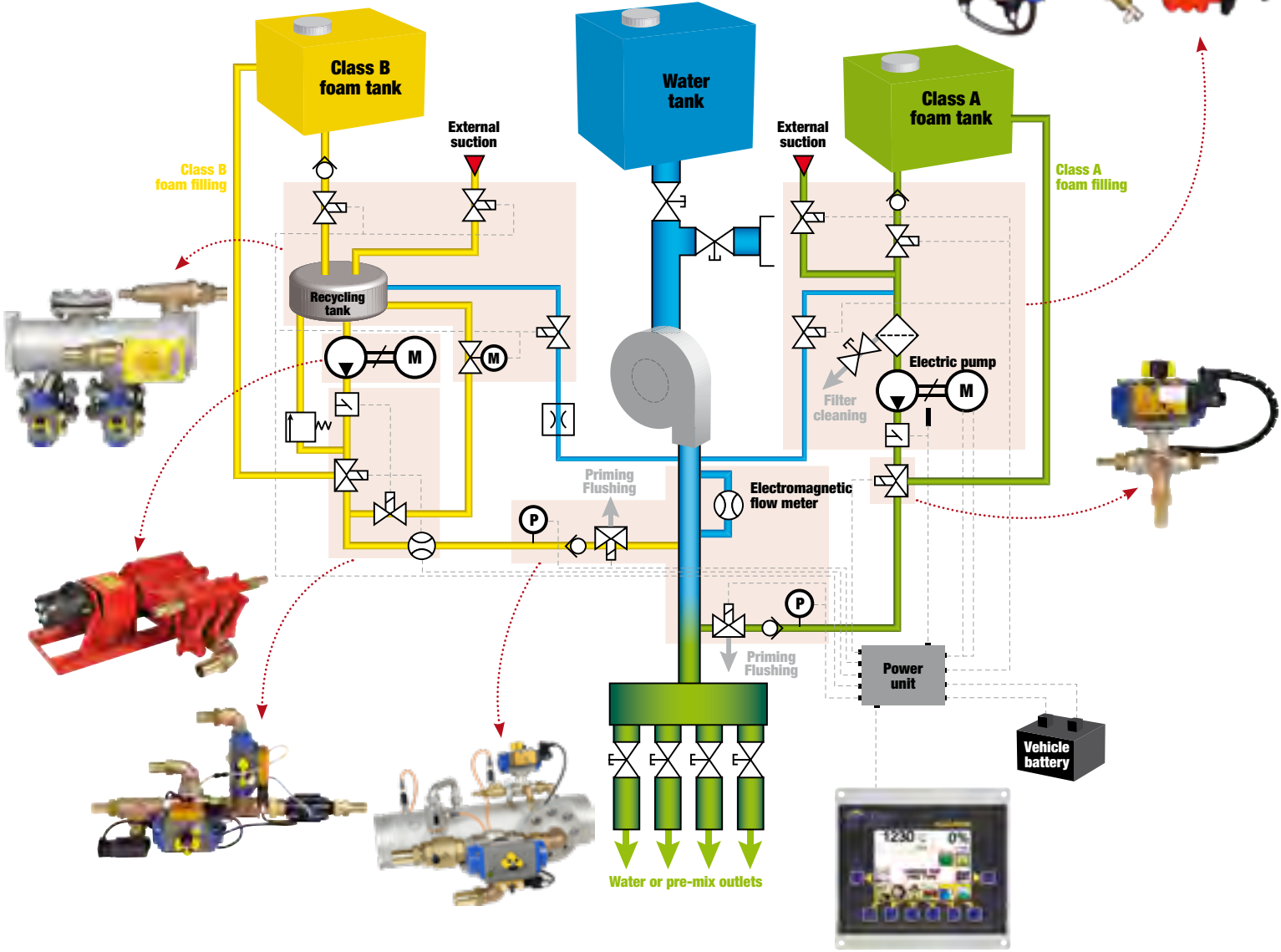




IGUANE

Class A Class B

OPERATING DIAGRAM



SYSTEM BENEFITS

HIGH PERFORMANCE

Injecting the product under pressure means IGUANE can be used whatever the water flow rate and pressure. This makes it possible to use considerable lengths of hoses lines. Pre-mixing is performed in the truck without any pressure loss this allows fireman deployment to be far from the danger zones.

ECONOMICAL

A training mode allows the equipment to be tested without foam use

FUNCTIONAL

- Compatible with all Class A and B products
- Can be fitted on all types of vehicles
- Available as a pre-mounted kit or mounted on its own frame
- Electric motor for the Class A foam, and thermal engine or hydraulic motor for the Class B foam
- Easy maintenance

COMPREHENSIVE

- Automatic priming and flushing for both products
- External suction
- Product tank filling from the ground
- Class B foam transfer to an external container

MULTI-PURPOSE

Class A foam use on urban fires, improves the speed and effectiveness of extinguishing, thereby reducing water consumption.
Class B foam concentrate use on industrial fires, means extinguishing will be faster and easier to cool down more effectively burning areas. The possibility of injecting the product either from the tank onboard the vehicle or directly from an external stock increases the autonomy of the dosing system and allows foam to be continuously produced at a perfect controlled concentration. The tank filling function means operators do not need to handle the product.

COMPLEMENTARY FUNCTIONS

	TRITON	PALLEON	CAMELEON	GECKO	IGUANE	SALAMANDRE
External suction		Option	Option	√	Option	√
Automatic filling		Option	Option	Option	Option	
Automatic flushing	Option	Option	√	√	√	√
Product transfer				Option	Option	Option
Automatic out of frost			Option	Option		
Additional screen	Option	Option	Option	Option	Option	
Tank level sensor		Option	Option	Option	Option	Option

EXTERNAL SUCTION

This function allows to suck (and dose) from an external container, can, barrel…

AUTOMATIC FILLING

This function allows to fill the foam tanks in the vehicle via the motor-driven pump of the dosing unit.

AUTOMATIC FLUSHING

This function allows to flush automatically the dosing system, after each intervention.

PRODUCT TRANSFER

This function allows to transfer product from the truck foam tank or from an external container to another external container.

AUTOMATIC OUT OF FROST

This function allows to purge the piping of the dosing system after intervention, with compressed air.

ADDITIONAL SCREEN

An additional screen allows to control the dosing unit from two places of the truck (cabin and truck rear for instance).

TANK LEVEL SENSOR

Our full stainless steel pressure sensor allows to display the tank level on the screen so as the tank filling function.

WATER FLOW RANGE

Size of the manifold	LP/HP	Water flow rate	TRITON	PALLEON	CAMELEON	GECKO	IGUANE	SALAMANDRE
DN25	HP	10 to 100 l/mn	√					
DN40	LP	30 to 850 l/mn	√					
	LP	30 to 1000 l/mn		√	√			
	HP	35 to 350 l/mn	√	√	√			
DN50	LP	40 to 1250 l/mn	√					
	LP	40 to 1500 l/mn		√	√			
	HP	75 to 750 l/mn		√	√			
DN65	LP	50 to 2000 l/mn	√	√	√			
DN80	LP	80 to 3000 l/mn	√	√	√	√	√	√
DN100	LP	300 to 5000 l/mn		√	√	√	√	√
DN125	LP	400 to 8000 l/mn				√	√	√
DN150	LP	500 to 10000 l/mn				√	√	√
DN200	LP	800 to 20000 l/mn				On request	On request	On request

Dosing systems on skids and trailers

SALAMANDRE

Class B

SPECIFIC STUDIES POSSIBLE

SALAMANDRE IS AN ELECTRONIC DOSING SYSTEM DESIGNED FOR THE PROTECTION OF INDUSTRIAL SITES REQUIRING MAJOR STAND-ALONE FIRE EXTINGUISHING EQUIPMENT USING FOAM.

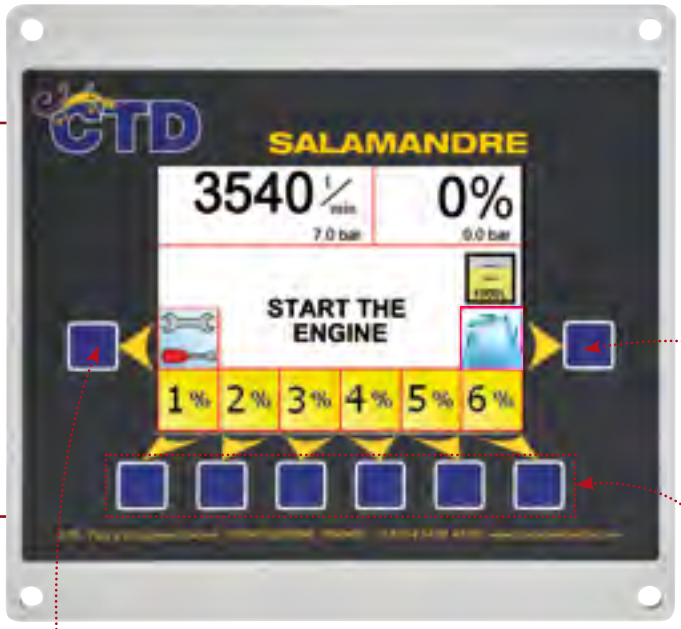
SALAMANDRE

- **Pump:** 120 to 600 l/mn *(depending on the model)*
- **Pressure:** 16 bar
- **Dosage:** 1 to 6% *(other concentrations possible)*
- **Water flow rate:** 300 to 20,000 l/mn *(depending on the size of the manifold - See page 24))*
- **Energy:** Diesel
  Petrol
  (others energies on request)
- **Weight:** Depending on the model

A RANGE OF 5 MODELS
(details p.6)

OPERATING PRINCIPLE

As soon as the thermal engine is started up, the pump draws up the foam concentrate via the recycling tank.
If dosing is not requested, the liquid circulates in a closed loop.
When a dosage concentration is activated, SALAMANDRE injects the foam concentrate into the water pipe and automatically adjusts the volume of foam concentrate via a regulation valve.
The amount of foam concentrate injected depend of the real time water flow rate and the desired concentration.
At the end of the operation, the circuit is cleaned by a simple press on the "FLUSHING" button.



SCREEN BENEFITS

UNIT
- Colour screen
- 6" display size
- Waterproof (IP68)
- Impact resistant
- Compact size
- Operating temperature between -20°C and +50°C

FULL DISPLAY
- Water flow rate
- Actual concentration
- Pre-defined concentration icons
- Water pressure and product injection pressure
- Product tank levels with capacity
- Autonomy

MONITORING
- Intervention report
- Fault log

MODULAR
- Customisable icons
- Remote start-up
- Several languages available

INSTALLATIONS

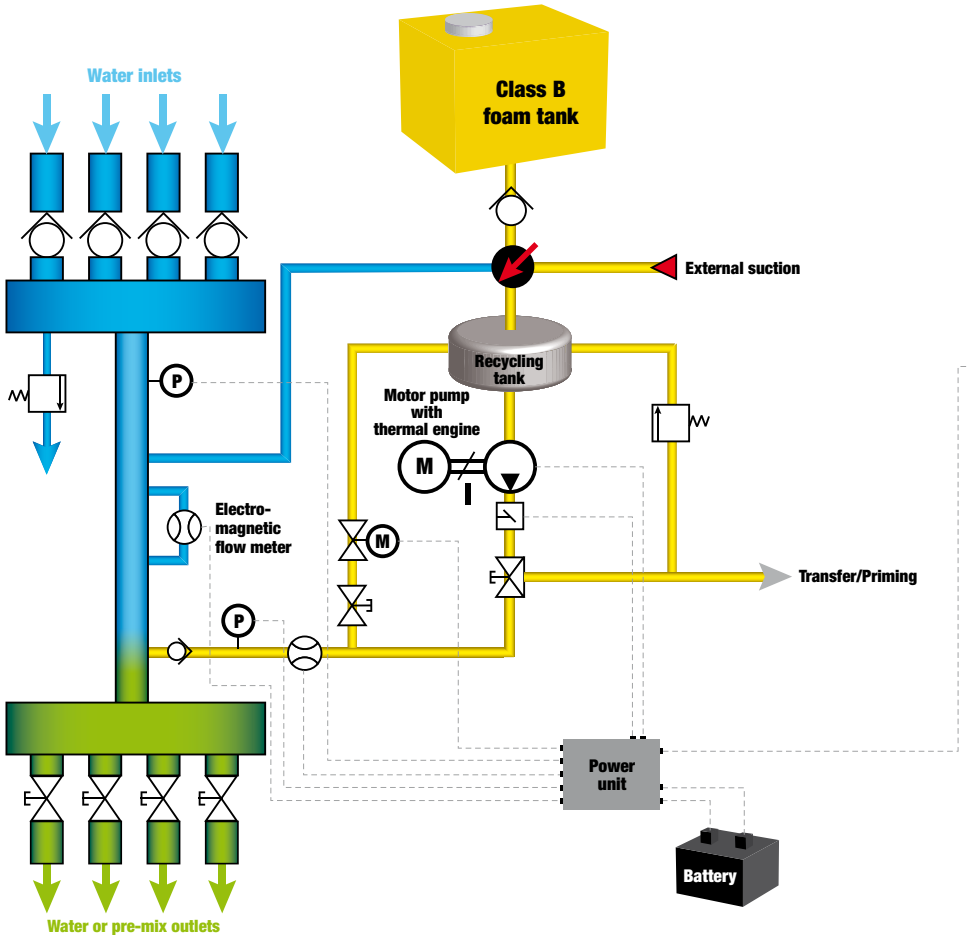
Salamandre 360
Stand-alone unit

Salamandre 240
on foam concentrate skid

Salamandre 120
on trailer

Salamandre 360
on trailer

OPERATING DIAGRAM



Control panel

SYSTEM BENEFITS

HIGH PERFORMANCE

Injecting the product under pressure means SALAMANDRE can be used whatever the water flow rate and pressure. This makes it possible to use considerable lengths of hose line.
SALAMANDRE can therefore be placed anywhere along the discharge lines, allowing deployment considerably further away from the danger zone. Operations to supply foam concentrate are more easy and safe.

DIDACTIC

SALAMANDRE uses various embedded sensors to continuously display the status of the system on the screen. This provides didactic assistance enabling the user to monitor the stages of system start-up

FUNCTIONAL

- Compatible with all Class B foam concentrates
- Stand-alone system
- Can be adapted for a fixed mount (skid) or mobile mount (trailer)
- Various drive motors
- High level of autonomy
- Easy maintenance

UPGRADABLE

- External suction
- Product tank filling from the ground
- Product tank agitation
- Foam transfer to an external container
- Emergency operating mode
- Battery floating charger

TAILOR-MADE

Each model has an operating range adapted to the needs of the spray apparatus and the types of risks. The size of the pre-mix manifold is tailored according to the needs of the number of inlets/outlets (type and size of connections).

EFFECTIVE

CLASS B foam concentrate use on industrial fires means extinguishing will be faster and easier to cool down more effectively burning areas. The possibility of injecting the product directly from an external stock increases the autonomy of the dosing system and allows foam to be continuously produced at a perfectly controlled concentration.

MPVE

Class B

SPECIFIC STUDIES POSSIBLE

MPVE IS A MECHANICAL BALANCE PRESSURE SYSTEM DOSING SYSTEM WITH MANUAL ADJUSTMENT DESIGNED FOR THE PROTECTION OF INDUSTRIAL SITES REQUIRING STAND-ALONE FIRE EXTINGUISHING EQUIPMENT USING FOAM.

MPVE 120

- **Pump:** 120 liters
- **Pressure:** 16 bar
- **Dosage:** 3 to 6%
- **Water flow rate range:** 1000 to 4000 l/mn
- **Energy:** Thermal engine
  Electricity
- **Weight:** Depending on the model

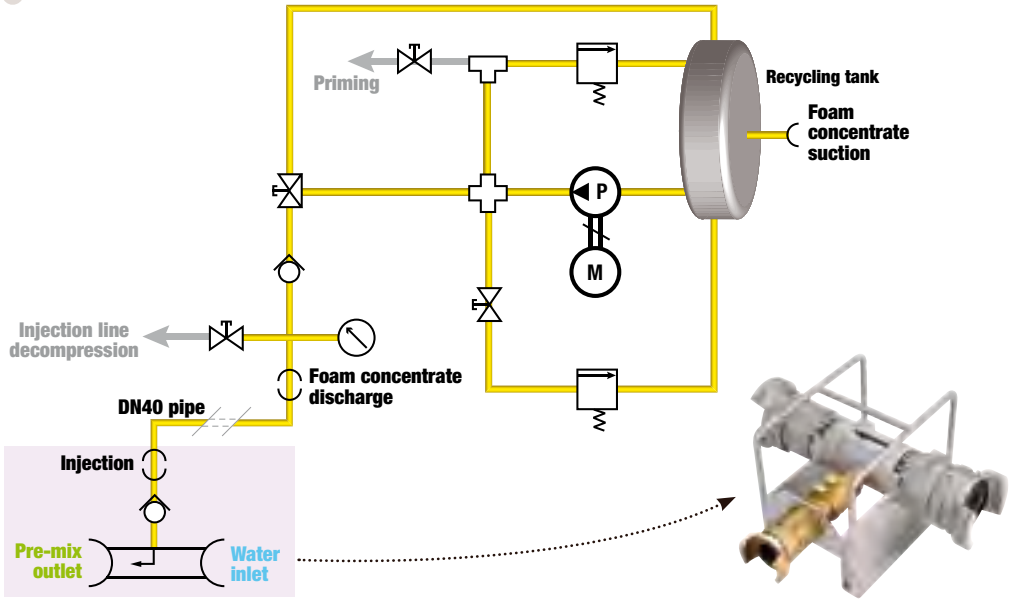
MPVE 180

- **Pump:** 180 liters
- **Pressure:** 16 bar
- **Dosage:** 3 to 6%
- **Water flow rate range:** 1500 to 6000 l/mn
- **Energy:** Thermal engine
  Electricity
- **Weight:** Depending on the model

OPERATING DIAGRAM

OPERATING PRINCIPLE

After connection to the foam concentrate tank and once the thermal engine is started up, the MPVE draws up the foam concentrate via the recycling tank. In standby, the liquid circulates in a closed loop, to prevent any risk of unintentional injection.
Set the manual valve on injection position allows the transfer of the foam concentrate under pressure into the water pipe via the injector inserted on the line.



SYSTEM BENEFITS

HIGH PERFORMANCE

Injecting the product under pressure means MPVE can be used whatever the water flow rate and pressure. This means significant lengths of pipe can be used between the motor pump and the water line. The possibility to install the injector anywhere along the pipe allows firemen deployment to be far from the danger zones.

FUNCTIONAL

- Volumetric pistons pump
- Compatible with all foam concentrates
- Stand-alone system
- High level of autonomy
- Easy maintenance

SIMPLE

Implementing the system with a single valve to operate makes the MPVE accessible to everyone. An abacus helps the users to check if they have the correct ratio (foam concentration/water flow rate) to ensure an efficient foam application for great extinguishing.

EFFECTIVE

Class B foam concentrate use on industrial fires means extinguishing will be faster and easier to cool down more effectively burning areas.

INSTALLATIONS

MPVE 120 Petrol

MPVE 180 on foam concentrate skid

Extinguishing units for 4WD pick-up

TRIOCEROS

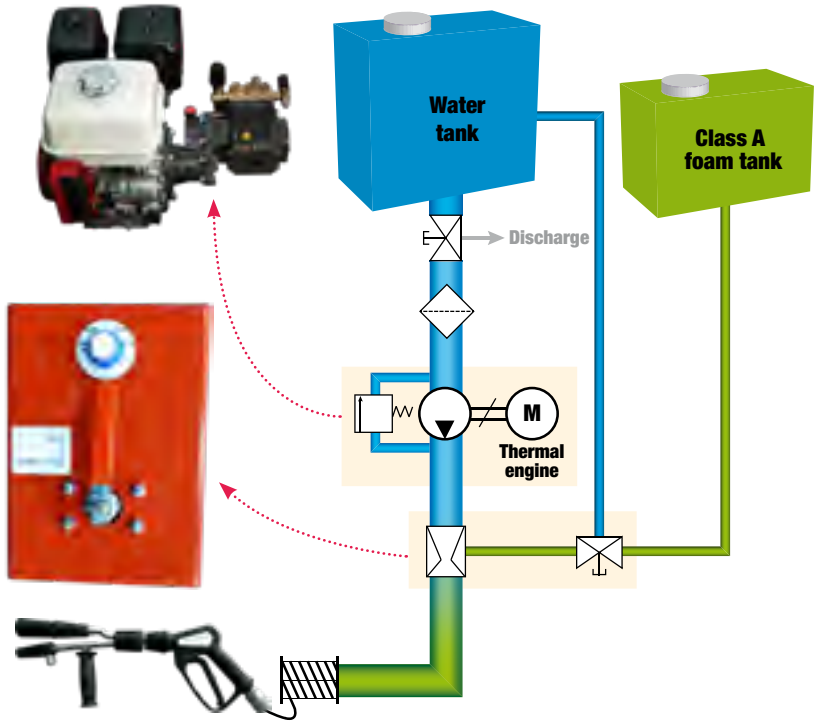
SPECIFIC STUDIES POSSIBLE

TRIOCEROS IS A HIGH-PRESSURE APPARATUS FOR EXTINGUISHING SMALL FIRES, ESPECIALY DESIGNED FOR SMALL 4WD FIREFIGHTING VEHICLES. IT COMBINES THE ADVANTAGES OF HIGH PRESSURE AND CLASS A FOAMS CONCENTRATES.

TRIOCEROS

- **Pump :** 21 l/mn
- **Pressure :** 200 bar
- **Dosage :** 0.1 to 1% (Specific studies possible)
- **Engine :** Petrol 11CV
  Diesel 12CV
- **Start up :** Electric and manual
- **Reel :** Hose 25m *(other lenghts possible)*

OPERATING DIAGRAM



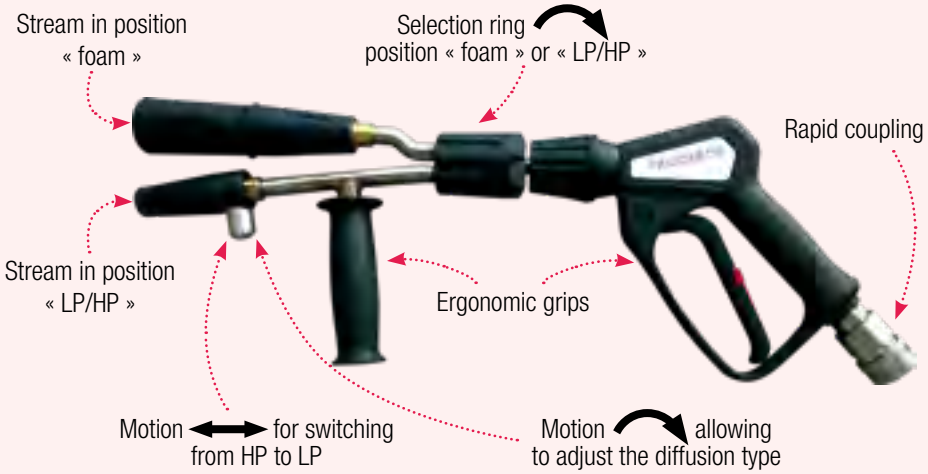
OPERATING PRINCIPLE

From the start of the thermal engine, the pump rises in pressure. Opening the nozzle makes the engine accelerate and set the pressure at 200 bar. Then, the user chooses the position of the nozzle : water mist, additived water or foam and inject the foam concentrate. The user just has to open the product's valve and to set the concentration with the thumbwheel.

HIGH PRESSURE NOZZLE

EXTINGUISHING

The high pressure nozzle offers 3 positions :
- Position «high pressure» water mist spray stick or diffused, for a better cooling of the fire attack area.
- Position «low pressure» spray stick with addition of class A foam concentrate to get an additived water particularly efficient on brush fires.
- Position «foam» allowing to project a semi-humid foam (overrun 10) on any material. Perfect againt small urban fires (trash cans, cars...).



SYSTEM BENEFITS

ECONOMICAL

Using high-pressure allows to reduce the needs of water with high efficiency thanks to the CLASS A foam concentrate. In areas of difficult access, this strongly increases the extinguishing autonomy.

UPGRADABLE

TRIOCEROS is adaptable on any material and vehicules. A wide variety of options allows to build a tailor-made solution (tanks, reels, undercarriage).

EFFECTIVE

High pressure allows to schrink the size of the water drops, therefore increasing the cooling power of the water by catching more heat.

ACHIEVEMENTS

ACCESSORIES

Vacuum cleaner function

Designed for discharging any kinds of garbage, algae or sludge, mud…, this accessory is easily plugged into the hose in place of the nozzle. It allows to suck water in case of small flooding.
Suction capability : 250 l/mn

Hose-reel 40m

With a 40m capacity (+15m compared to the standard hose-reel), this hose-reel has also automatic roll-back.

Hydro injector for refilling the water tank

The high pressure of the Trioceros allows to suck water (from a swimming pool, lake, reservoir, well), filtered by a grid, in order to refill the water tank.

Isolating valve

This HP valve allows to add new hose sections while engine is still running.

Hose + couplings

This 25 meters hose equipped with rapid couplings allows to extend hose length.

INDUSTRY

A wide range of systems designed for firefighting in industrial areas.

DOSING SYSTEMS AS FIXED INSTALLATIONS

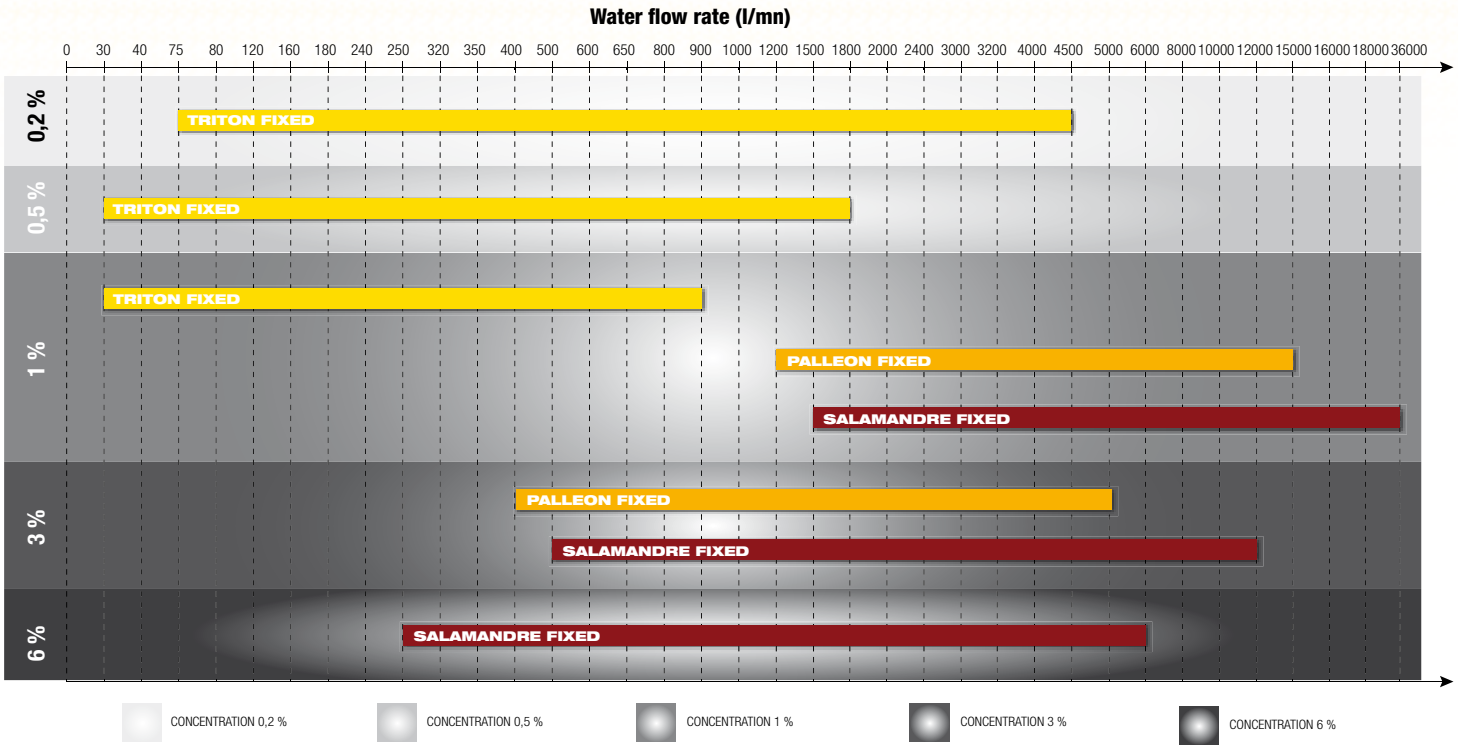
TRANSFER PUMPS

HOW TO CHOOSE YOUR FIXED DOSING SYSTEM ?

1. Choose the concentration

2. Calculate the minimum and maximum water flow rate using the following formula:

Water flow rate (l/mn) = Product flow rate (l/mn) : Concentration (%)



CTD is here to advise you and help you choose the equipment best suited to your needs.

Dosing systems as fixed installations

TRITON FIXED

Class A

SPECIFIC STUDIES POSSIBLE

TRITON FIXED VERSION, FOR FIXED INSTALLATIONS USING ONLY CLASS A FOAM.

TRITON FIXED

- **Pump:** 9 l/mn
- **Pressure:** 15 bar
- **Dosage:** 0.1 to 1%
  (other concentrations possible)
- **Water flow rate (DN100):** 300 - 5000 l/mn
  (other flow rates possible)
- **Power supply:** Electricity 220VDC
  (other voltages possible)

OPERATING PRINCIPLE

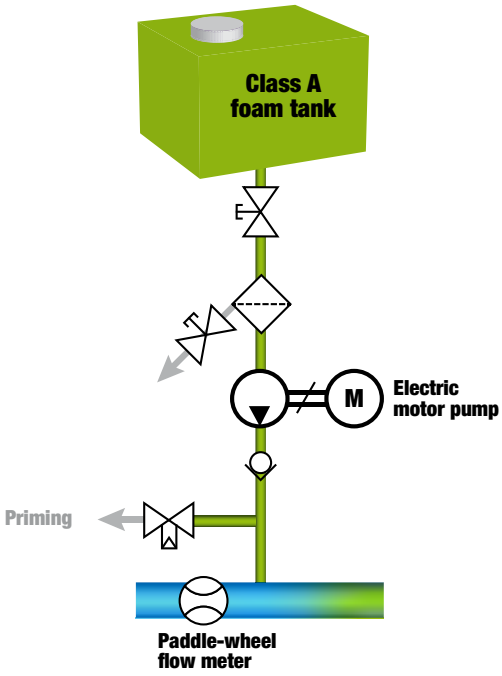
TRITON starts up as soon as the battery master switch is turned on. Dosage begins by pressing the START/STOP button or at a distance from a control station. The + and – buttons allow for quick and easy selection of the desired additive concentration. As soon as the system detects a water flow, TRITON injects Class A foam under pressure, proportionally to the water flow.

Configuration button

Power START/ STOP

Quick and easy selection of the desired additive concentration (0.1 to 1 % in 0.1 % increments)

OPERATING DIAGRAM



ACHIEVEMENT

BENEFITS

ADAPTABLE

- Optional secondary screen
- Several languages available

SIMPLE

- Quick start-up
- Instantaneous production of foam
- No require flushing

FULL DISPLAY

- Water flow rate
- Actual concentration
- Product tank levels with pressure
- Dosage selection
- Intervention report

HIGH PERFORMANCE

Injecting the product under pressure means TRITON can be used whatever the water flow rate and pressure. Pre-mixing is performed on the water line without any pressure.

UNIT

- 128 x 64 display size
- Waterproof (IP68)
- Impact resistant
- Compact size
- Remote start-up
- Operating temperature between -20°C et +50°C

ECONOMICAL

Quicker extinguishing means less water consumption.

FUNCTIONAL

- Delivered in a pre-mounted kit
- Compatible with all Class A additives
- Easy to install
- Light weight and compact size
- Easy maintenance

EFFECTIVE

The use of class A product makes fire extinguishing more effective and reduce fire fighter intervention time.

PALLEON FIXED

Class B

SPECIFIC STUDIES POSSIBLE

PALLEON FIXED VERSION, FOR FIXED INSTALLATIONS USING ONLY CLASS B FOAM.

PALLEON FIXED

- **Pump :** 150 l/mn
- **Pressure :** 15 bar
- **Dosage :** 1 à 3%
  (other concentrations possible)
- **Water flow rate (DN100):** 400-5000 l/mn
  (other flow rates possible)
- **Power supply :** Electricity 380V
  (other voltages possible)

OPERATING PRINCIPLE

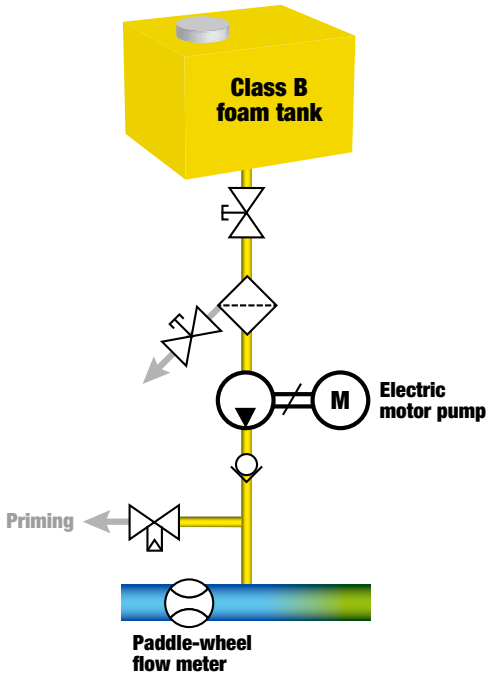
PALLEON starts up as soon as the battery master switch is turned on. Dosage begins by pressing the START/STOP button or at a distance from a control station. The + and – buttons allow for quick and easy selection of the desired additive concentration. As soon as the system detects a water flow, PALLEON injects Class B foam under pressure, proportionally to the water flow.

Configuration button

Power START/ STOP

Quick and easy selection of the desired CLASS B foam concentration (1 to 3 % in 0.1 % increments)

OPERATING DIAGRAM



ACHIEVEMENT

BENEFITS

UNIT

- 128 x 64 display size
- Waterproof (IP68)
- Impact resistant
- Compact size
- Remote start-up
- Operating temperature between -20°C and +50°C

INTUITIVE

- Easy start-up
- Didactic screen
- Automatic flushing

FULL DISPLAY

- Water flow rate
- Concentration
- Product tank level with capacity
- Dosage selection
- Intervention report

FUNCTIONAL

- Delivered in a pre-mounted kit
- Compatible with all Class B products
- Easy to install
- Operating temperature between -20°C and +50°C
- Light weight and compact size
- Easy maintenance

ADAPTABLE

- Secondary screen option is possible
- Several languages available

UPGRADABLE

- External suction
- Product tank filling from the ground
- Injection on LP or HP system

EFFECTIVE

The use of class B product makes fire extinguishing more effective and reduces firefighter intervention time.

HIGH PERFORMANCE

Injecting the product under pressure means PALLEON can be used whatever the water flow rate and pressure. Pre-mixing is performed in the truck without any pressure loss this allows fireman deployment to be far from the danger zones.

SALAMANDRE FIXED

Class B

SPECIFIC STUDIES POSSIBLE

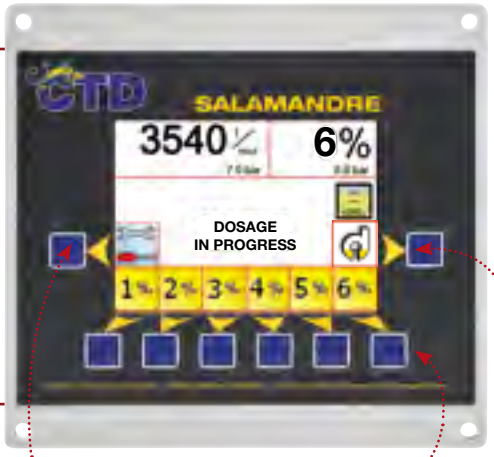
SALAMANDRE FIXED VERSION, FOR FIXED INSTALLATIONS USING ONLY CLASS B FOAM.

SALAMANDRE FIXED

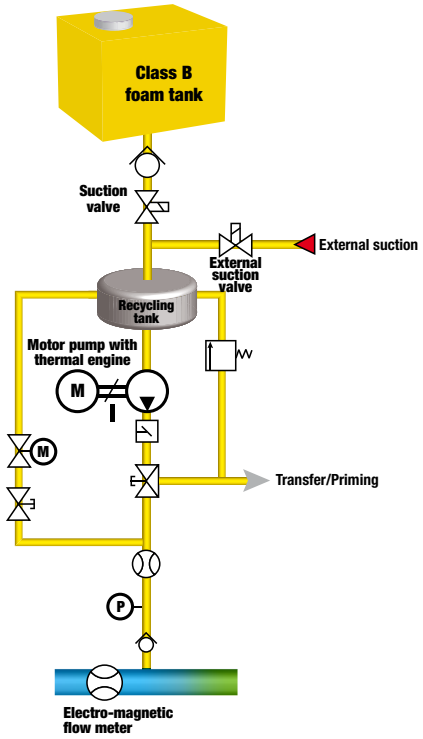
- **Pump :** 360 l/mn
- **Pressure :** 15 bar
- **Dosage :** 1 à 6%
  (other concentrations possible)
- **Water flow rate (DN150) :** 500 - 12000 l/mn
  (other flow rates possible)
- **Energy :** Diesel

OPERATING PRINCIPLE

SALAMANDRE starts up as soon as the battery master switch is turned on and as soon as the thermal engine is started up. Dosage begins by pressing a concentration button or at a distance from a control station. As soon as the system detects a water flow, SALAMANDRE injects the foam concentrate under pressure, proportionally to the water flow.



OPERATING DIAGRAM



ACHIEVEMENT

BENEFITS

FULL DISPLAY

- Water flow rate
- Actual concentration
- Pre-defined concentration icons
- Water pressure and product injection pressure
- Product tank levels with capacity
- Autonomy

UNIT

- Colour screen
- 6” display size
- Waterproof (IP68)
- Impact resistant
- Compact size
- Operating temperature between -20°C and +50°C

ADAPTABLE

- Secondary screen option is possible
- Customisable icons
- Remote start-up
- Several languages available
- Intervention report
- Fault log

EFFECTIVE

CLASS B foam concentrate use on industrial fires means extinguishing will be faster and easier to cool down more effectively burning areas. The possibility of injecting the product directly from an external stock increases the autonomy of the dosing system and allows foam to be continuously produced at a perfectly controlled concentration.

FUNCTIONAL

- Compatible with all Class B foam concentrates
- Easy to install
- Easy maintenance
- Stand-alone system
- High level of autonomy

PERFORMANT

Injecting the product under pressure means SALAMANDRE can be used whatever the water flow rate and pressure. The pre-mix is made on the water line, without any pressure loss.

Transfer pumps

PT40

SPECIFIC STUDIES POSSIBLE

OUR PUMPS ARE SPECIALLY DESIGNED FOR CLASS B FOAM TRANSFER OR ANY OTHER VISCOUS LIQUID.

PT40 THERMAL

- **Pump:** 40 l/mn
- **Pressure:** 4 bar
- **Energy:** Thermal engine *(petrol)*

PT40 ELECTRIC

- **Pump:** 40 l/mn
- **Pressure:** 4 bar
- **Energy:** Electricity

OPERATING PRINCIPLE

After connection to the foam concentrate tank and once the thermal engine is started up, the motor pump draws up the product.
The product is transferred as soon as the discharge valve on the motor pump is opened.
The technology used means that the characteristics of the foam concentrate are not altered during transfer, this maintain optimum product quality.
The motor speed determines the product discharge rate.

BENEFITS

- Volumetric pump specially adapted to the foam viscosity concentrate products.
- No product alteration during transfer
- Integrated over pressure safety valve
- Motor pump with adjustable flow rates via by-pass on the intake side
- Simple, functional control panel
- Foam concentrate discharge manifold sized according to the flow rates

ACCESSORIES

Counter and guns

This option contains the following elements :
- Electronic counter of volume with instantaneous flow, summation and resetting to check the sucked quantity pf product.
- 3 hoses length 2m and GFR couplings
- Dispensing nozzle to fill small cans

SPECIFIC STUDIES POSSIBLE

OUR PUMPS ARE SPECIALLY DESIGNED FOR CLASS B FOAM TRANSFER OR ANY OTHER VISCOUS LIQUID.

PT200

- **Pump:** 200 l/mn
- **Pressure:** 5 bar
- **Energy:** Thermal engine *(petrol or diesel)* Electricity

PT400

- **Pump:** 400 l/mn
- **Pressure:** 5 bar
- **Energy:** Thermal engine *(petrol or diesel)*

PT600

- **Pump:** 600 l/mn
- **Pressure:** 5 bar
- **Energy:** Thermal engine *(diesel)*

PT800

- **Pump:** 800 l/mn
- **Pressure:** 5 bar
- **Energy:** Thermal engine *(diesel)*

PT1000

- **Pump:** 1000 l/mn
- **Pressure:** 5 bar
- **Energy:** Thermal engine *(diesel)*

OPERATING PRINCIPLE

After connection to the foam concentrate tank and once the thermal engine is started up, the motor pump draws up the product.
The product is transferred as soon as the discharge valve on the motor pump is opened.
The technology used means that the characteristics of the foam concentrate are not altered during transfer, this maintain optimum product quality.
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BENEFITS

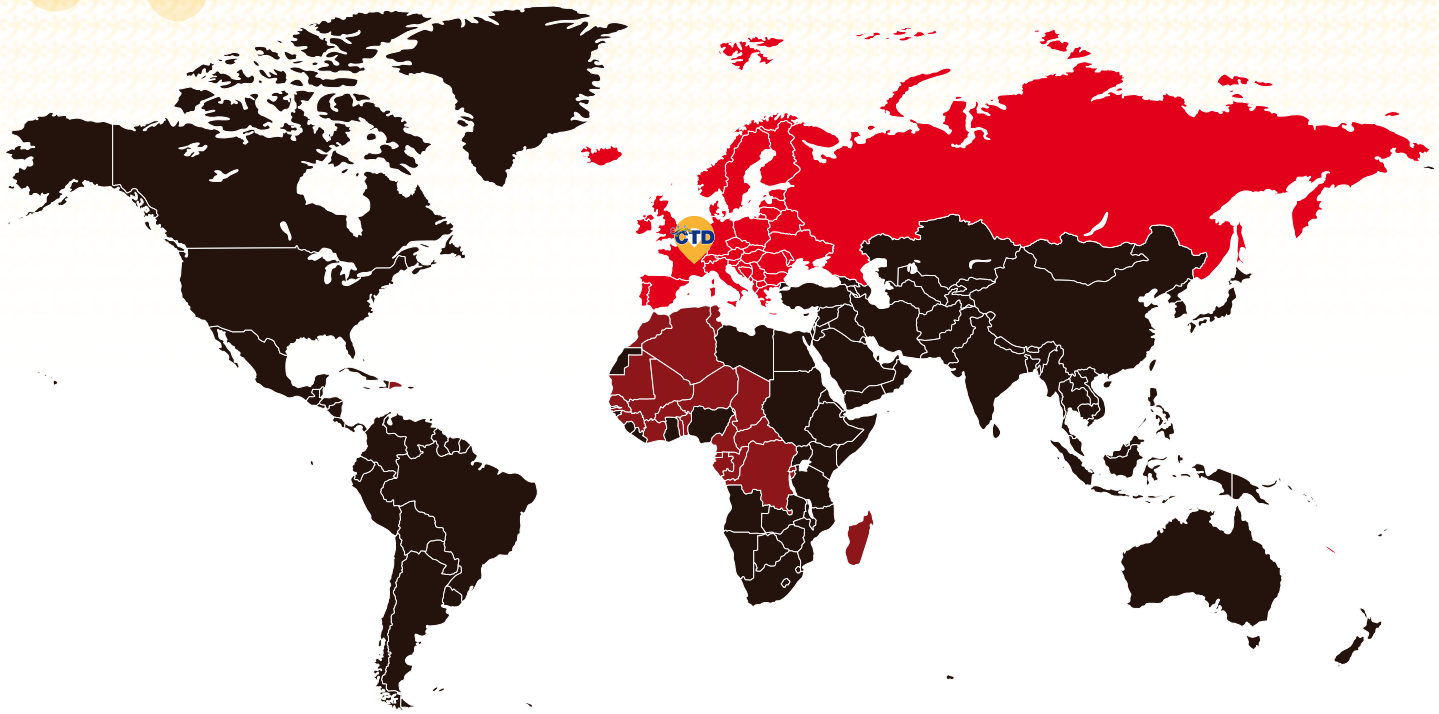
- Volumetric pump specially adapted to the foam viscosity concentrate products.
- No product alteration during transfer
- Integrated over pressure safety valve
- Motor pump with adjustable flow rates via by-pass on the intake side
- Simple, functional control panel
- Foam concentrate discharge manifold sized according to the flow rates

ACHIEVEMENTS

1000 l/mn trolley-mounted transfer pump with thermal engine

1000 l/mn skid-mounted transfer pump with thermal engine

SALES AREA



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