

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

## SALAMANDRE

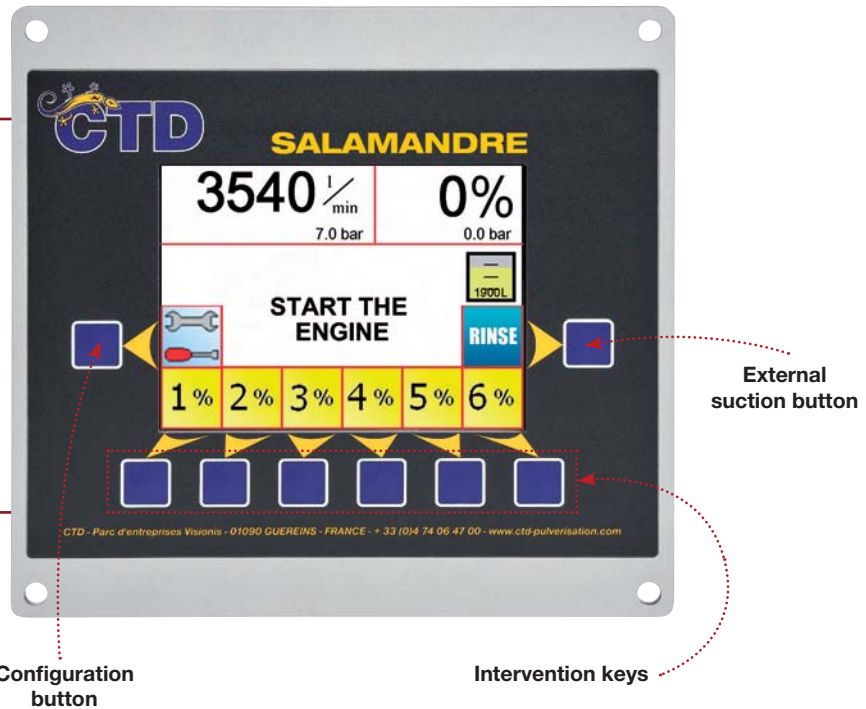
- **Pump:** 120 to 600 l/min (depending on the model)
- **Pressure:** 16 bar
- **Dosage:** 1 to 6%
- **Water flow rate:** 250 to 20,000 l/min (depending on the size of the manifold)

- **Energy:** Diesel  
Petrol  
Electricity 380 V  
(other voltages possible)

**A RANGE OF 5  
MODELS**  
(details p.4)

### 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

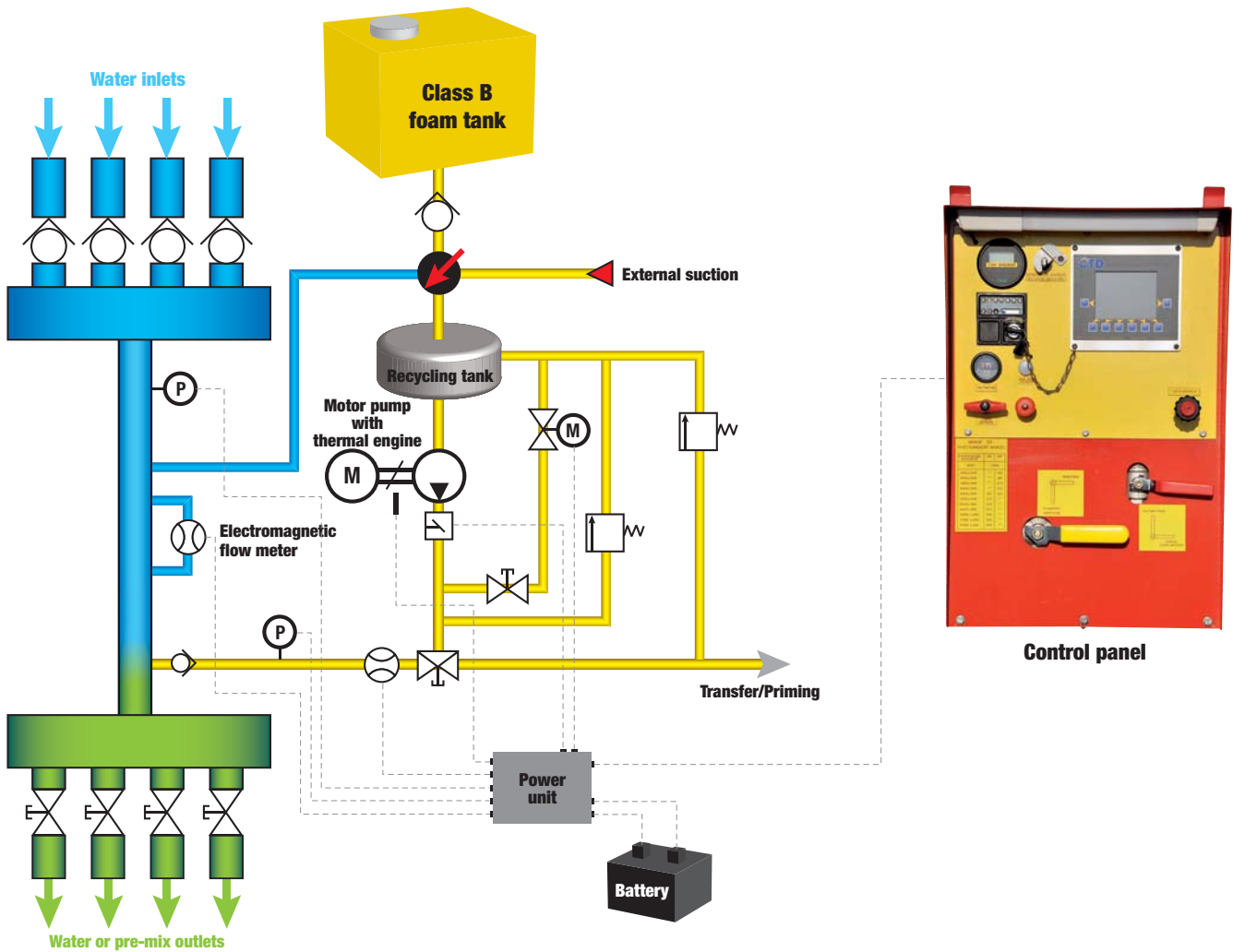


**Salamandre 120**  
on trailer



Integration of a  
**Salamandre 600**  
on a rapid-response  
speedboat

## OPERATING DIAGRAM



## 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.

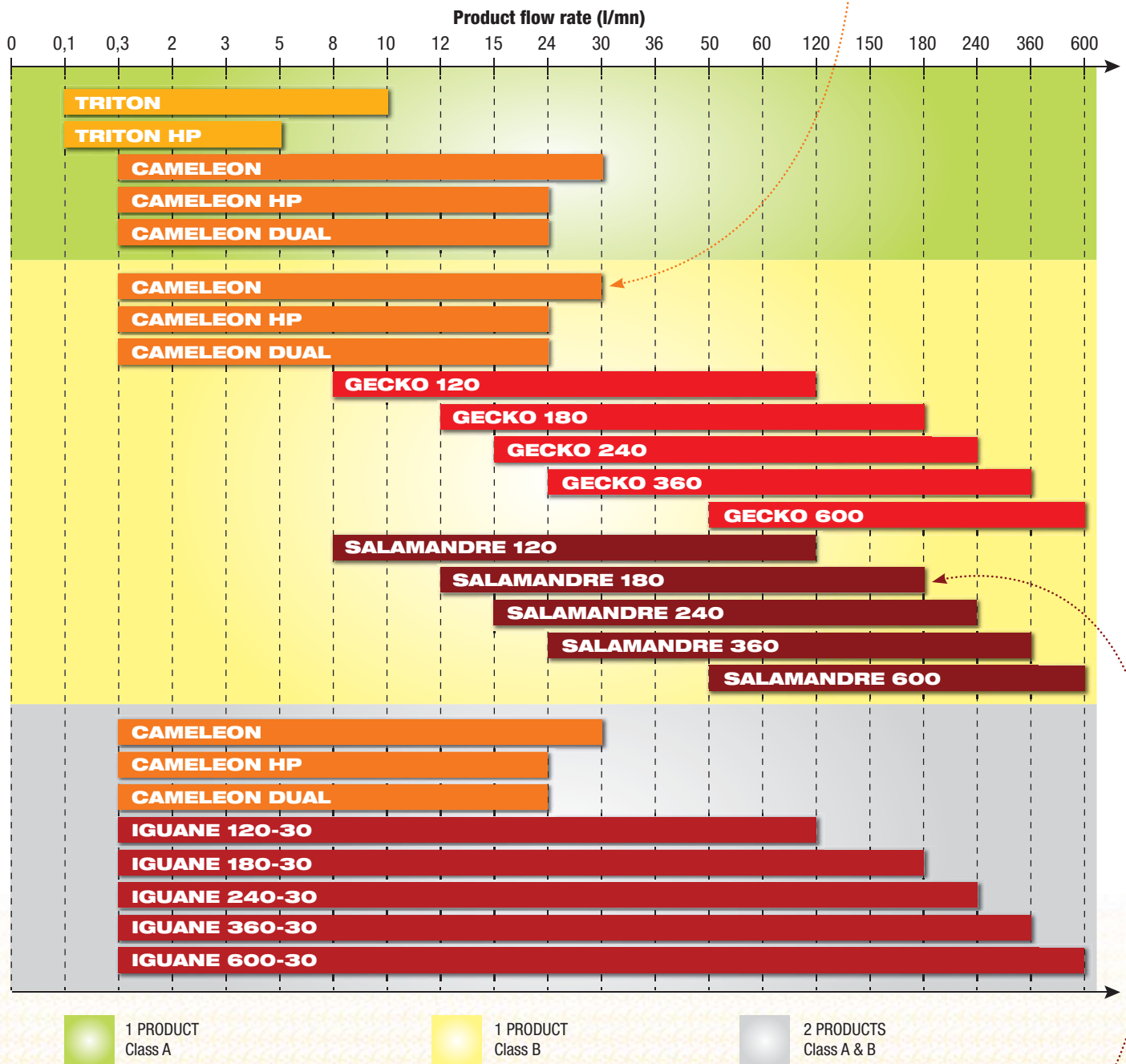
# HOW TO CHOOSE YOUR FOAM DOSING SYSTEM

**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:

$$\text{Water flow rate (l/min)} \times \text{Concentration (\%)} = \text{Product flow rate (l/min)}$$

**EXAMPLE NO.1**  
 If you want to use a 400 l/min foam nozzle with 3 % CLASS B foam on your vehicle:  
 $400 \text{ l/min} \times 3\% = 12 \text{ l/min of product}$   
**The CAMELEON system corresponds to your needs**  
 See page 8



**EXAMPLE NO.2**  
 If you want to use a 3000 l/min monitor with 6 % CLASS B foam on your skid:  
 $3000 \text{ l/min} \times 6\% = 180 \text{ l/min of product}$   
**The SALAMANDRE 180 system corresponds to your needs - See page 16**

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