

ge DOSAGE Système Proportionner Pression Aspiration
Mousse Perte De Charge DÉBIT Dosis Percentage
PROPORTIONNING System PRESSURE Loss Induction
Foam Flow Rate DOSAGE Porcentaje Sistema
ADOR Eductor INYECCIÓN Espuma Perdida De PRESIÓN
AGE Pourcentage Proportionner Pression Aspiration

Automatic Dosing Systems

For Fire fighting foams ▯ Additives ▯ Specialty products

3F foam induction systems are more accurate, more efficient and faster. Manufactured by CTD, our systems can provide a 30 to 50% reduction for intervention times and fire extinction. This will reduce consumption of both water and foam, faster extinction and less pollution.



Induction

3F

The Technology

THE COMPANY

CTD is a French company, created in 1985, which developed its original technology in dosing systems. CTD established its activity in agriculture, but evolved over the years in environment and firefighting applications. In 1999, CTD invested in a new plant to sustain its growth and started to investigate possible development outside France. 12 years later, CTD is a leading actor in Europe for electronic dosing systems for firefighting concentrates.

3F is associated to this development and represents the brand over more than 50 countries worldwide.

THE CONCEPT: POSITIVE INJECTION

Our pump injects the product into the water stream at a pressure always higher than the water pressure. That is why we don't have a detrimental pressure loss, as with common Venturi systems.

The system monitors flow rates and pressures for both water and foam. Our electronic device controls everything in real time and reacts accordingly to any change of flow rate or pressure. It controls the pump speed and adjusts it in accordance to the input values. Any change will be dealt with and the pump will immediately adjust to the new parameters.

SMART TECHNOLOGY

This advanced technology is unique in the market with its distinctive key features making it a "MUST HAVE":

- No pressure loss: this keeps the system and the foam trucks out of the danger zone,
- Reliability: more than 3000 units have been installed in the past 20 years with no single rejection or replacement,
- Ease of use: the training is so simple and easy and complete in less than 30 minutes,
- Wide application: available for flow rates ranging from 30 to 20000 l/mn \approx 8 to 5500 GPM,
- Pressure: available in a wide range of pressure from 2 to 40 bars \approx 30 to 600 psi,
- Fast to operate: the system pumps and selects the foam and foam percentage automatically and injects immediately,
- Accurate: the system enables the operator to get the exact percentage at 0.1% precision in the full range of pressure and flow,
- Smart: all operations are registered and most can be scrutinized through Bluetooth,
- External suction: the system can suck the foam from an external container to either feed the water line or refill the foam tank,
- Rinsing: after use, the system is automatically flushed.



Environment & Range

THE ENVIRONMENT & ECO BENEFITS

The ability to initiate fast operation with precise dosing, avoiding tedious adjustments of pressure and flow rate of conventional systems. Being immediately operational, firefighters attack the fire faster and are more effective. This results in a much lower water consumption and less wasted foam concentrate. More accurate, more efficient and faster, CTD systems achieve a 30% to 50% faster initiation of fire attack with foam compared to conventional equipment, so the consumption of water and foam concentrate will be reduced. Faster extinction means less polluting fumes and less wasted and polluted water.

CTD systems have a unique feature: it allows you to use a training program for staff without consuming foam or water. Additionally, another program includes a simulation function to operate the equipment, but simply inducing water -not foam- into the water stream.

80% of the equipment training on foam can be achieved without the use of foam.
Environment, Health & Safety working at its best.

3F offers a choice of 3 distinctive models to cover the needs for dosing

TRITON



A cost-effective tool to address the needs for low flow rates and low induction percentages: ideal for small vehicles for forest fire fighting with high and low pressure options.

CAMELEON



A must-have for Fire Brigades to be installed in trucks. Can work with 3 different products and preset 6 concentrations of use. Designed for urban fire response vehicles and once again available with high and low pressure options.

SALAMANDRE



The ultimate tool to deal with large fires for oil and Gas industries. It can be positioned in the safety zone and deliver foam at the tip of your finger to any line to feed monitors. It can be fixed or mobile [fire station, truck, trailer], and deal with various foam supply: foam tank, bulk, external suction

The Equipment

	TRITON		CAMELEON		SALAMANDRE	
	LP	HP	LP	HP	TRUCK	OTHER
Foam	0,1% - 1%	0,1% - 1%	0,1% - 6%	0,1% - 6%	1% - 10%	1% - 10%
Water flow rate l/mn	30 / 850	35 / 350	50 / 2 000	80 / 800	250 / 20 000	250 / 20 000
Water flow rate GPM	8 / 95	9 / 95	12 / 500	20 / 200	60 / 5 000	60 / 5 000
Max pressure Bars	15	45	15	45	16	16
Max pressure psi	220	700	220	660	220	220
Pump volume Liters	10	3	30	24	60 / 1 200	60 / 1 200
Pump volume Galons	2,5	0,8	8	6	15 / 300	15 / 300
Power supply	E	E	E	E	E □ D □ P □ H	D □ P

E : Electrical □ D : Diesel □ P : Petrol □ H : Hydraulic



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