

Low Volume Misters and Fogging Machines

CURTIS DYNA-FOG® Ltd

INNOVATORS IN AEROSOL TECHNOLOGY

Thermal Fogging and Ultra Low Volume (ULV) Cold Fogging Applications

Fargro supply a range of Dynafog machines which includes both thermal and cold fogging equipment, which can be used for many purposes. The advantages of using these techniques over conventional high volume sprayers are:

- * **Spray droplets are optimally sized to improve targeting.**
- * **No run off of chemicals compared to conventional high volume applications.**
- * **Reduces labour costs considerably as the work is carried out more quickly.**
- * **Avoids application of high volume spray (excess water) when disease is prevalent particularly during low light, cold temperature conditions.**

What is a fog application?

A thermal generated fog typically has a range of droplet size but most are very small from 0.15 - 10 microns and is characterised by a highly visible spray cloud because of the large volume of very small droplets produced. These machines are petrol driven, usually apply large volumes of liquid over a relatively short time. The machines always require an operator to be in supervision during application.

A standard cold fog (ULV) aerosol application produces droplet sizes of mainly 10 - 25 micron, but can produce droplets up to 50 microns through adjustment of the flow rate. A ULV aerosol application cannot be seen in the same way as a thermal fog. Droplets of a more precise size can be generated enabling adjustment of the settings for the target site. In many situations the application through these machines may be automated.

A typical high volume (knapsack) spray droplet would be in the range of 100-200 micron. Fogging techniques produce far more droplets from the same volume of liquid and therefore improved pest targeting. Coverage is far more efficient, from which effective control follows (1ml of liquid would produce 556,000,000 droplets at a particle size of 15 micron).

Fogging has extremely effective properties when it comes to pest and disease control. Such treatments can result in a quick reduction of an existing pest population when an effective fast acting insecticide is used.

Uses

Crop protection, disinfection, humidification, and odour control. Whatever your requirements we can match a machine to that use.

Disinfection:

It is extremely important in many situations that good disinfection takes place, usually between crops or in animal houses. Droplets can be produced around 50 microns, which is optimal for animal house buildings with a degree of residual activity. The use of certain disinfectants when used with fogging techniques is an ideal treatment for end of season glasshouse salad crops such as tomatoes and cucumbers where diseases can be present. Ask Fargro for details.

Pest and Disease Control:

Small droplet distribution is essential for many pests and diseases in order to have efficacious results. Small particles can penetrate dense foliage crops and difficult to reach situations where conventional high volume sprays fail. Quick pest knockdown with excellent crop safety can be achieved with fogging technology.

Humidification:

Many situations demand high humidity levels and Dynafog equipment can cater for that requirement.

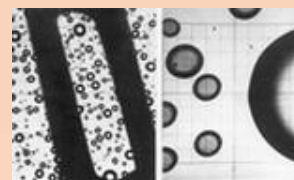
What machine is right for you?

Choose from our large range and check with our experienced staff to determine how to get the best of each and every situation with fogging and misting equipment.

Fargro market a wide range of fogging equipment, has its own maintenance and repair service and carries a comprehensive range of spare parts. This service is unrivalled anywhere in the UK.

Where application of a plant protection product is intended, users must ensure that the terms of the product approval or specific off label are met and satisfy themselves that any "off label" use is safe. If necessary Fargro can offer advice on this aspect.

A number of products have been specifically formulated for application with these types of machines.



Fog particles seen through the eye of a needle compared to typical large droplets from a high volume spray.

ELECTRIC MACHINES

DYNAFOG - NIGHTSTAR

The largest ULV machine Fargo supply. A large fan distributes spray particles. Available in a number of versions including bench mounted, suspended and free standing. A programmable timer operates the machine. There is an automated flush system after spray operation. There is automatic agitation of formulation tank.

Fuel:	Electric.
Area treated:	up to 6000m ² (without additional fan assistance).
Formulation tank:	11.4 litre capacity. High density polyethylene.
Particle Size:	Adjustable 8-50 microns.
Flow rate:	1.9-15.5 litres per hour.
Formulations handled:	Liquid and wettable powder formulations.

Fargo Code:	Description
DYNAP	230 volt Trolley mounted model DH1902

**DYNAFOG - TORNADO**

Electric cold fog ULV/mist sprayer. The multi-range Tornado offers a 11.4 litre formulation tank, large formulation filter with removable screen and a precision control metering valve that allows adjustable outputs from a heavy mist of 18.5 litres per hour down to low outputs in the ULV range. Suitable for application of insecticides fungicides and disinfectants.

Fuel:	Electric.
Area treated:	up to 1000m ² (without additional fan assistance).
Formulation tank:	11.4 litre capacity. High density polyethylene.
Particle Size:	5-40 microns.
Flow rate:	0-18.5 litres per hour.
Formulations handled:	Liquid and wettable powder formulations.

Fargo Code:	Description
DYNAJ	110 volt Model DH2895
DYNAF	220 volt Model DH2897

**DYNAFOG - CYCLONE**

The ultra precision metering valve assures particles under 20 microns regardless of flow rate and viscosity of material. Ideal for pest control work in public health, greenhouses etc.

Fuel:	Electric
Area treated:	Up to 1000m ² (without additional fan assistance).
Formulation tank:	3.8 litre capacity.
Particle Size:	Adjustable 5-20 microns.
Flow rate:	0-70 ml per minute.
Formulations handled:	Liquid formulations.

Fargo Code:	Description
DYNAD	110 volt Model DH2730
DYNAC	220 volt Model DH2732

**DYNAFOG - CYCLONE ULTRA-FLEX**

A machine with a 46 cm flexible hose with handle on nozzle permits spraying into normally inaccessible and hard to reach areas such as under/between kitchen cabinets, under carpets and above ceilings. The Flex Hose unit is ideal for general pest control and duct work that requires disinfectant or duct sealant applications.

Fuel:	Electric.
Area treated:	Confined spaces.
Formulation tank:	3.8 litres.
Particle size:	5 - 30 microns.
Flow rate:	Adjustable 0 - 19 litres per hour.
Formulations handled:	Liquids.
Weight:	4.8 kg.

Fargo Code:	Description
DYNACF	220 volt Model DH3004



DYNAFOG - HURRICANE

The Hurricane can be used to apply various liquid formulations of crop chemicals, for controlling pest and disease in small enclosed spaces such as mushroom houses, warehouses, storage rooms and small glasshouses.

Optional Feature: Float Valve:

The Hurricane with the optional float valve gives continuous flow capabilities without refilling the tank and several of these units can be hooked together with hoses, with just one supply source. These models would typically be used for humidity control in areas such as rooting of cuttings. As a guide one machine will give relative humidities above 90% on an area of 20 square metres. The Hurricane can be wired into a time-clock controller or humidity sensor to give automatic control.

Fuel: Electric.
 Area treated: Up to 500m² (Small structures).
 Formulation tank: 3.8 litre capacity.
 Particle Size: Adjustable 5-50 microns.
 Flow rate: 0-19 litres per hour.
 Formulations handled: Liquid formulations.

Fargro Code:	Description
DYNAHB	110 volt Model DH2790
DYNAH	220 volt Model DH2792
DYNAHA	220 volt Model DH2739 with float valve



PETROL MACHINES

DYNAFOG - TRAILBLAZER

A compact petrol driven hot fogger (resonant pulse principle) with a short exhaust tube. Throws fog 24metres.

Fuel: Petrol with electric (battery) start.
 Area treated: Up to 2000m².
 Throw: 24 metres.
 Formulation tank: 3.8 litre capacity.
 Particle Size: 0.5 - 50 microns.
 Flow rate: 0-19 liters per hour.
 Formulations handled: Liquid formulations.
 Length: 74 cm.
 Weight (empty): 11.3 kg.

Fargro Code:	Description
DYNAT	Trailblazer model DH2600



DYNAFOG - GOLDEN EAGLE

A petrol driven hot fogger (resonant pulse principle). A selector chooses dryness of the fog. Ideal for structures under 2000m². Light enough to be carried.

Fuel: Petrol with electric (battery) start.
 Area treated: Up to 2000m².
 Throw: 30 metres.
 Formulation tank: 4.2 litre capacity.
 Particle Size: 0.5 - 50 microns.
 Flow rate: 0-34 liters per hour.
 Formulations handled: Liquid formulations - with carrier.
 Length: 132 cm.
 Weight (Empty): 8.6 kg.

Fargro Code:	Description
DYNAG	Dynafog Golden Eagle model DH2610



DYNAFOG - BLACKHAWK

A petrol driven hot fogger (resonant pulse principle). A powerful machine with a "throw" of over 45 metres. The machine is also equipped with an easy to clean stainless steel formulation filter that keeps the system free of unwanted dirt and residue. Large capacity 11.4 litre removable formulation tank. Optional large drum connection option (227 litres). The dryness of the fog is adjustable.

Fuel:	Petrol with electric (battery) start.
Area treated:	(for treating areas up to 4000m ²).
Throw:	Over 45 metres.
Formulation tank:	11.4 litre capacity.
Particle Size:	0.5 - 50 microns.
Flow rate:	0 - 68.4 liters per hour.
Formulations handled:	Liquid formulations.
Length:	173.5 cm.
Weight (empty):	18.6 kg.



Fargro Code:	Description
DYNAB	Blackhawk model DH2620

DYNAFOG - MISTER III

A powerful machine with a "throw" of over 45 metres. The machine is also equipped with an easy to clean stainless steel formulation filter that keeps the system free of unwanted dirt and residue. Large capacity 11.4 litre removable formulation tank. Optional large drum connection option (227 litres). The dryness of the fog is adjustable. Ideal in situations where a high output is required, for large blocks and where heavier wettable powders are used.

Fuel:	Petrol with electric (battery) start.
Area treated:	Up to 4000m ² .
Throw:	45 metres.
Formulation tank:	11.4 litre capacity.
Particle Size:	0.5 - 50 microns.
Flow rate:	0 - 45.4 liters per hour.
Formulations handled:	Wettable powders and non-flammable liquid formulations..
Length:	154.9 cm
Weight (empty):	17.7 kg

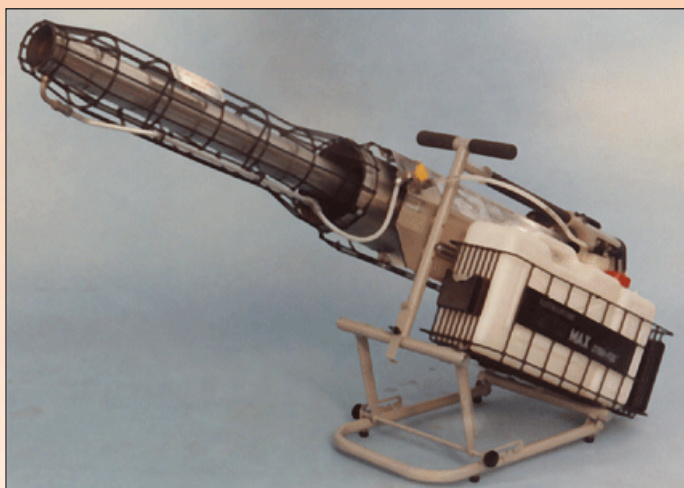


Fargro Code:	Description
DYNAM	Mister III model DH2630

DYNAFOG - MISTER MAX

A petrol driven hot fogger (resonant pulse principle). A powerful machine with a "throw" of over 45 metres. The largest of the thermal foggers we supply with an output of up to 94 litres per hour. The machine is also equipped with an easy to clean stainless steel formulation filter that keeps the system free of unwanted dirt and residue. Large capacity 11.4 litre removable formulation tank. Optional large drum connection option (227 litres). Dryness of the fog adjustable.

Fuel:	Petrol with electric (battery) start.
Area treated:	Up to 4000m ² .
Throw:	45 metres.
Formulation tank:	11.4 litre capacity.
Particle Size:	0.5 - 40 microns.
Flow rate:	0 - 94.6 liters per hour.
Formulations handled:	Liquid formulations (non-flammable).
Length:	165.1 cm.
Weight (empty):	22.7 kg.



Fargro Code:	Description
DYNAA	Mister Max model DH2640

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