



# Ambic Power Foamer From Dairy Spares Ltd

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## Electric and Pneumatic Power Foaming Teat Disinfection Systems

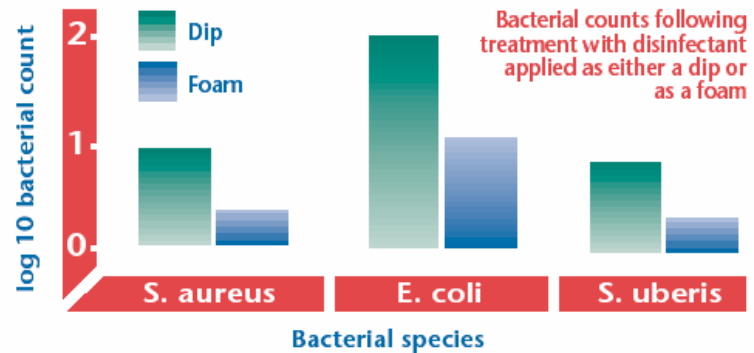
**Proven to Improve Efficacy and Reduce Chemical Costs**

The introduction of the Ambic Power Foaming teat disinfection systems has come about following many years of development and product trials, culminating in an independent study by the Institute for Animal Health. This study proved that foamed teat disinfectants allow farmers to experience significant savings on their chemical bills, coupled with improved teat coverage and higher bacterial kill rates compared to liquid systems.

As foamed disinfectant is superior in lifting soils and easy to apply, the Power Foaming system is ideal for both pre and post chemical applications offering the user a rapid change between foaming applicators. Whilst specialist foaming disinfectants are available, many chemicals have foaming properties.

The foam provides excellent adhesive properties to the teat and with its improved visibility allows the operator to obtain repeated 100% teat coverage. As the foam bubbles burst, the agitation that occurs on the teat contact area loosens the soils and combined with the applied liquid content of the foam both cleans and disinfects the teat. As there are many layers of bubbles within the average foam coverage of the teat, this process has a prolonged activation time over liquid disinfectants, whilst reducing chemical requirements.

Foam disinfection is proven to provide an average decrease in logarithmic bacterial count of approximately 50% compared to a liquid dip treatment.



*A Healthy Herd  
A Healthy Profit*

# Installation of the Ambic Power Foamer Systems :

The Ambic power foaming system can be driven from two different power sources, the mains electric or an existing compressed air supply.

Compressed air is one of the fundamental components of the system, so in the case of a mains electric driven system, the power unit comprises of a small electrically driven air compressor capable of producing sufficient pressure and capacity to drive 5 applicators, with not more than 2 in use simultaneously and the maximum length of supply tubing being the 30 metre roll supplied.

The enclosure housing the electrics of the Power Foamer is rated at IP40 (IEC 60529), the power unit (A) must therefore be positioned outside of the milking parlour in a dry location and close to a 220 -240V AC power socket. The power supply cord **MUST** remain accessible when the unit has been installed.

The pneumatic system requires an on site compressed air supply to drive the Power Foamer. The system comes with a suitable regulator already boxed for a secure mounting, a 6 mm quick release coupling for the Power Foamer ring main supply tubing and a 1/4 BSP thread for the incoming air supply. It is advisable that the incoming air supply should preferably be filtered and free from any carry over oil. To adjust the regulator lift the knob and rotate, pressing the knob back down to fix the setting. Nominally 4 psi (0.27 bar).

Both types of system should be installed as a looped ring main (B) the routing of which will depend on the parlour design and will be either high level (Fig 2) or low level (Fig 3). If high level it will ideally be positioned above the rump rail with the long tail of the coil (D) connected via a 'T' fitting (C) and fixed to a suitable upright with cable ties (H). These will also be used to secure the ring main. Alternatively it can be routed along the centre of the parlour. **CAUTION:** Do not over tighten cable ties as air flow may be restricted. 'T' fittings and gun entry fittings are "quick release push-in" and can be released by holding the flange in and pulling out the tubing. If no suitable horizontal bar is available on which to hang the unit, it may be necessary to attach brackets (not included), or a hanging rail.

Foam Applicators should be positioned such that all milking points can be reached comfortably without over-stretching the coils. Extension kits (AP014) are available to enable as many Applicators as required to be installed. Insure all tubes are cut square and pushed fully into each connection to avoid any possible air leaks.



## OPERATION

Switch on at electric socket / air supply tap. Power Unit (A) will be activated. When a line pressure of 3 psi. is reached, the electric air pump will switch off via a pressure switch and will not operate until a gun is used and pressure drops. Fill bottle (G) with suitable foaming teat product to the 300 ml mark - do not overfill. Bottle (G) can either be unscrewed from Applicator (F) with gun (E) attached or after releasing from the gun bayonet (Fig 4). When ready to dip, depress the trigger until foam is level or just above the rim of Applicator (F) and raise fully onto teat (Fig 5). When milking is completed switch off electric power supply / close the air supply tap.

## MAINTENANCE

Use **ONLY** a soft dry cloth to clean the electrical enclosure housing when necessary - **NEVER** use a hose. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard. Regularly clean the dip cups by detaching from gun, unscrewing the bottle then rinsing the cup out with clean warm water to remove any hairs, dirt, etc. The air inlet hole (K) in the applicator may become blocked, it can be blown or pricked out. The short tube (J) with the diffuser should periodically be changed

