

# **PENDRED Tru-fog™ propagation system**

**for propagation from seed, cuttings & grafting**



Over 25°C full of cooling fog

Under 25°C humidified to 95%RH



Tru-fog™ is a unique and new technique for the germination of seeds, rooting cuttings & grafting.

The Tru-fog™ system produces super-soft, bacteria free water droplets, 100% of which are less than 3 microns in size, smaller than the stomata in the plants.

Only Tru-fog™ can produce this volume of 'lighter than air' fog that remain suspended in the propagation environment. Providing shade from bright sunlight and energy efficient evaporative cooling in extreme temperatures without over wetting the growing media. This reduces stress on leafy cuttings which can imbibe moisture from the <3 micron water droplets so that cuttings quickly return to being turgid and allowing the stomata to remain open and access Co<sub>2</sub>

***No nozzle system can do this!***

## **Increased benefits by: -**

- Reducing propagation times by 14 to 21 days.
- Reduced root stress caused by over wetting the rooting media allowing more oxygen for the emerging root system.
- Stabilises and maintains the relationship of water in air and growing media.
- Providing shade from extreme sunlight without undue wetting.
- Controls temperature variations in very hot & sunny weather.
- Improved access to 'walk-in' Tru-fog™ compartments thereby reducing management time removing and replacing polythene sheets.



- You can see it working
- Increased high % success
- Economical use of water
- Promotes CO<sub>2</sub> replacement
- Low power consumption = energy saving

The Tru-fog™ systems maintain a visible layer of lighter than air fog made up of < 3 micron droplets of purified water. Providing moisture to the foliage without over wetting the rooting media. In trials at HRI East Malling in 2002 *Gerya elliptica* 'James Roof' rooted 100% in 28 days compared with 65% in 55 days in enclosed mist.

Other subjects successfully rooted included: -

***Acer palmatum* spp., *Cotinus coggygia* 'Royal Purple', *Fremontodendron* 'California Glory'.**

Soft leafy cuttings propagated in high stress summer conditions can become stressed immediately after they are inserted. Cuttings have limited carbohydrate reserves and must root quickly to provide nutrients and water. When subjected to stress in summer, cuttings need to be shaded from bright sunlight and with the Tru-fog™ system they are cooled by evaporative cooling.



The mobile cart is controlled by temperature or sunlight to switch between humidification and fogging when heat from bright sunlight becomes a problem.

In hot weather the Tru-fog™ water droplets evaporate into water vapour causing an increase in air pressure that with the introduction of more Tru-fog™ promotes air change and essential CO<sub>2</sub> replacement. The Pendred Tru-fog™ system is unique, used and proven by a number of leading propagators.

**Visit our web site [www.pendred.com](http://www.pendred.com) or call Christopher Pendred on: -**

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