

Tekceleo's Micronice vibrating Mesh technology provide a unique **modularity and performance for aerosol generation for research and samples tests and analysis uses.**

Our devices can guarantee monodispersed aerosol particles and no alteration of the atomized solutions, which is particularly appreciated in the context of aerosolization of pharmaceutical and biologic formulations.

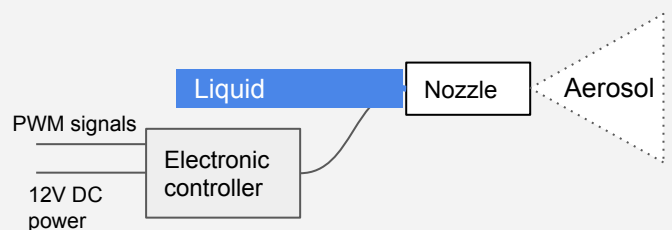
Our capacity provide large range of droplet size, a smooth nebulization (no pressure nor heating) and a very precise control of the flowrate allow to easily use our nozzle for **microbiological studies, in-vitro testing, samples testing or precise coating techniques.**

Benefits of our technology :

- **Very smooth nebulization, without inertia, heat or pressure.**
- **Full electronic control, plug and play** on AC power supply, adaptable flowrate.
- **Low footprint and easy to manipulate** : 20mmx46mm
- **Material savings** : no dead volume
- **Very low electrical consumption (<2W), can work on battery**
- **Quiet operation (<35dB)**

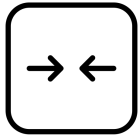
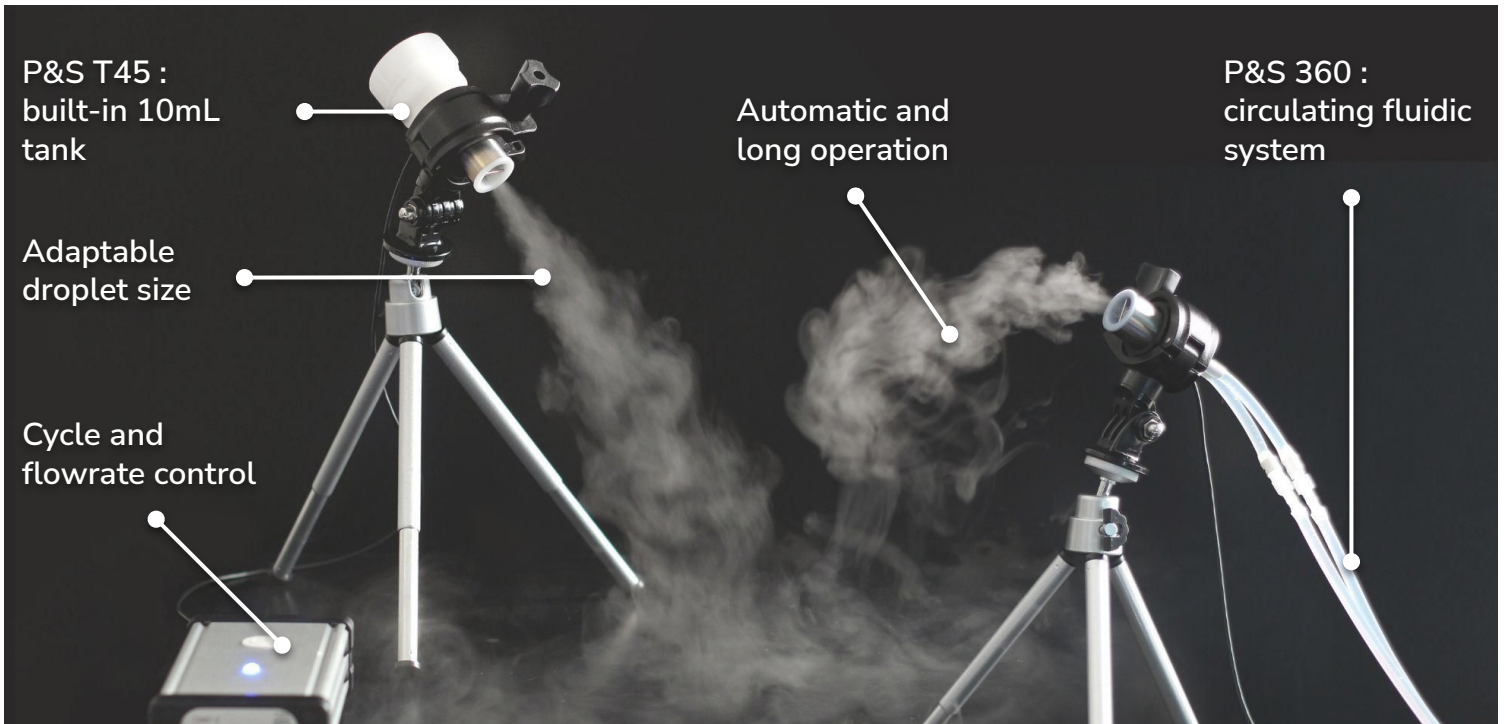
How it works ?

Bring liquid to the nozzle to atomize. Operation controllable with a simple ECU (up to 5 nozzles simultaneously).

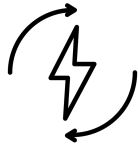


An adaptable technology :

- **Adaptable droplet size**
- **Set up cycle and precise control of the flowrate**
- **Can be controlled directly by a PLC via PWM signals.**



COMPACT



EFFICIENT



RESISTANT



SIMPLE

Standard droplet	Max Flowrate	P&S T45 operating time range	P&S 360 operating time range
05 μm	0,8 ml/min	~10-1000 mn	~450 - 45 000 mn
08 μm	2,5 ml/min	~5-500 mn	~225 - 22 500 mn
12 μm	4,3 ml/min	~2,5-250 mn	~110 - 11 000 mn
20 μm	8 ml/min	~0,08 - 125 mn	~55 - 5 500 mn
50 μm	35 ml/min	~0,35 - 30 mn	~11 - 1100 mn

Supported liquid	Temperature	Viscosity
<ul style="list-style-type: none"> Water-based. Ethanol-based. Acid-based (Stainless steel range). PBS (Phosphat Buffered Saline) Contact us for more supported liquid... 	<ul style="list-style-type: none"> 0-100°C (standard) 0-200 °C (high-temperature version) 	<ul style="list-style-type: none"> Ideal range : 1 cp Up to 3 cp (for droplet size > 15 μm) Contact us in case of more viscous liquid...

Possible configurations

Droplet size (+/- 10%)*	Flowrate (+/- 10%)*	Status	High temperature version	Electronic control	P&S T45 version	P&S H360 version
5 µm	0,8 ml/min	Standard	On-demand	YES	YES	YES
08 µm	2,5 ml/min	Standard	On-demand	YES	YES	YES
12 µm	4,5 ml/min	Standard	On-demand	YES	YES	YES
17 µm	5 ml/min	Standard	On-demand	YES	YES	YES
20 µm	10 ml/min	On-demand	On-demand	YES	YES	YES
24 µm	15 ml/min	On-demand	On-demand	YES	YES	YES
30 µm	20 ml/min	On-demand	On-demand	YES	YES	YES
39 µm	27,5 ml/min	On-demand	On-demand	YES	YES	YES
46 µm	35 ml/min	On-demand	On-demand	YES	YES	YES
50 µm	40 ml/min	Standard	On-demand	YES	YES	YES
65 µm	70 ml/min	On-demand	On-demand	YES	NO	YES

* Tolerance applied linked to manufacturing process. Service of precise characterization is provided on demand to certify droplet size and flowrate of purchased nozzles.