



Compliant: ISO 15714:2019.

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# Single and Multi JET Nebulizers (BLAM type) X-SLPG and X-MLPG

The X-LPG (X-SLPG or X-MLPG) atomizer, which has a high output, utilizes the jet nebulization principle of the Collison Nebulizer. This principle has been recognized for efficiently aerosolizing various liquids for a long time. As a result, X-LPG atomizer can generate aerosol more efficiently than other devices, including the Collison, in both its single pass and recirculating configurations.

TCR TECORA® manufactured 2 different types of X-LPG Automizers:

- ► X-SLPG Single Jet Nebulizer
- S X-MLRG Multi Jet Nebulizer

A **one-jet X-SLPG nozzle** is intended to function for use in the Single Pass Atomization (SPA) mode where liquid is subjected to the only one sonic air jet (single pass). Works with the compressed air.

A **multi jet X-MLPG** can function in **SPA mode** or **Multi Pass Atomization (MPA)** mode where liquid is recirculated to the 3 sonic velocity air jets. It is also connected to compressed air line. This type of nebulizer provides a high aerosol intake level and consumption.

### FEATURES

- Minimization of foaming when used with proteinic solutions;
- > Increased viability for vegetative bacteria aerosols;
- > Accurate control of liquid feed rate in one-pass mode;
- > Can be operated in both recirculation and one-pass mode;
- > Wide range of output;
- > Very high aerosolization efficiency;
- Resistant to frequent decontamination procedures with chemicals or autoclaving;
- > Modular design, multi-use.





## TRECORA POLLUTION CHECK









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# X-SLPG · X-MLPG

Jet Nebulizers

### APPLICATION FIELDS

- > Bioaerosol Research;
- > Biology;
- > Drug Discovery;
- > Aerosol Exposure Challenges;
- > Pesticides inhalation toxicity testing.

#### ACCESSORIES

#### Complete System with Syringe Pump for Nebulizing

Single and Multi Jet X-LPG Nebulizers can be used together with the Syringe Pump accessory.

**SPECIFICATIONS** 

> Volume Flow: 2 - 30 L/Min

> Particle diameter: Approx. 0.4  $\mu$ m - 8  $\mu$ m

A syringe pump is a device that uses a motor to control the movement of fluid from a syringe by mechanically inserting or retracting the plunger. It features a stepper motor that accurately moves the platform attached to the plunger of a syringe, with the body of the syringe held steady to the body of the unit to minimize movement.

Syringe pumps are capable of infusing liquids at a set rate and can be easily controlled by changing the speed of the motor. They are widely used across various fields, including thin film fabrication, mass spectrometry, flow chemistry, microfluidics, and others.



#### **INSTRUMENTS and CODES**

X-SLPG Single Jet Nebulizer	AC99-120-0085SP
X-MLPG Multi Jet Nebulizer	AC99-120-0086SP
Complete System with Syringe Pump for Nebulizing	AC99-120-0096SP
Injection Aerosol Frame for using X-SLPG or X-MLPG Jet Nebulizers	AC99-120-0097SP
Injection Aerosol Frame for using 3 Jet Nebulizers (X-SLPG or X-MLPG)	AC99-120-0098SP



