

## Model 241PG Ultrasonic Particle Generator

### Make micron and sub-micron particles from liquids



Sonaer's ultrasonic particle generator converts low viscosity liquids into fine like particles. Sonaer's ultrasonic particle generator uses our miniature 2.4 MHz model 241T, TEFLON coated ultrasonic nebulizer.

The unit is fully microprocessor based, allowing the user to program operating parameters into the unit, handling a wide variety of applications for accurate particle generation.

On the front panel is a LCD display that the user can change the rate at which particles are being generated from 0 to 100% of the full output capability, in 5% increments.

### Particles Made Easy

Built into the device is a variable 0 - 2 cfm air flow for moving particles out of the vessel where particles are being made, for special processes, like coating small parts.

This air flow source and all other connections are attached with quick disconnect 304 stainless steel fittings and TEFLON O-rings. This makes for easy removal of components for cleaning or adapting the device with simple connections, such as external gas supply or vacuums.

In addition, the unit has an external TEFLON optical sensor for keeping the liquid level to the correct height and preventing damage to the nebulizing element, should the unit run dry.

A container is provided for holding the liquid to be atomized. This container can be changed with other liquid holding cells. The microprocessor handles all the functions of the 241PG, including timed operation where particles can be made in preprogrammed amounts.

With the 241PG particles can be funneled into small tubes less than 1/8 inch ID for precise coating of small parts. The device can also be connected to a larger circulation vessel for making nano particles or vacuumed through high temperature furnace for making extra fine powders and particles.

The 241T 2.4MHz ultrasonic nebulizer module is easy to adapt into larger nebulizer arrays that Sonaer manufactures, for increased particle output.