

## ILATEC 45 Seeder



The ILATEC range of seeders is designed by specialists to generate flow seeding particles suitable for Particle Image Velocimetry (PIV), Laser Doppler Anemometry (LDA), Planar (Global) Doppler Velocimetry (DGV), and Laser light sheet tomography.

Models are available for liquid or solid seeding materials, with options such as remote controlled operation.



## Specifications:

### Typical particle size:

1.0  $\mu\text{m}$  peak in PDF of size distribution (optional: cut off of larger particles by a cyclone), tested seeding materials: DEHS, vegetable oils

### Typical seed output per jet:

appr. 108 particles/second

### Air requirements:

minimum pressure 1.5 bar at 25 m<sup>3</sup>/h

### Operating pressure:

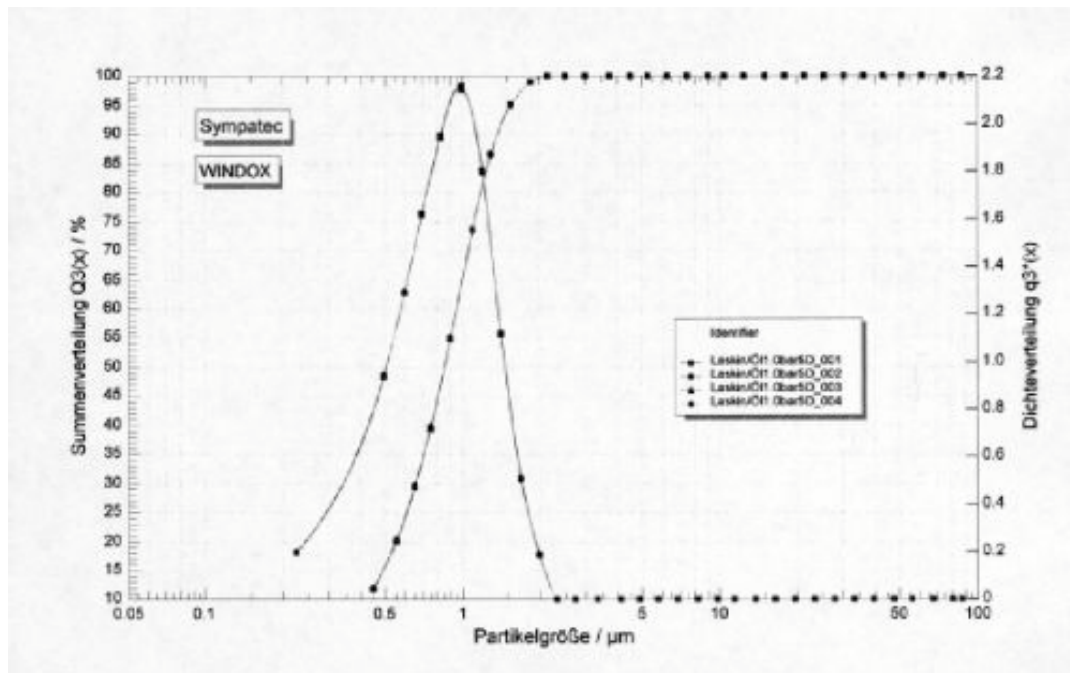
up to 3 bar overpressure on the vessel, inlet pressure 0.7 -1.0 bar.

### Inlet and outlet:

one inlets 1/2" for particle generation, one outlet 3/4", one additional opening 3/4", safety valve

### Remote control:

4 solenoid valves with 24 Volt DC, control interface (USB), MS-Windows based software, cables, and DC-unit.



*Particle Size Distribution for Vegetable Oil Atomized at 1 Bar*

