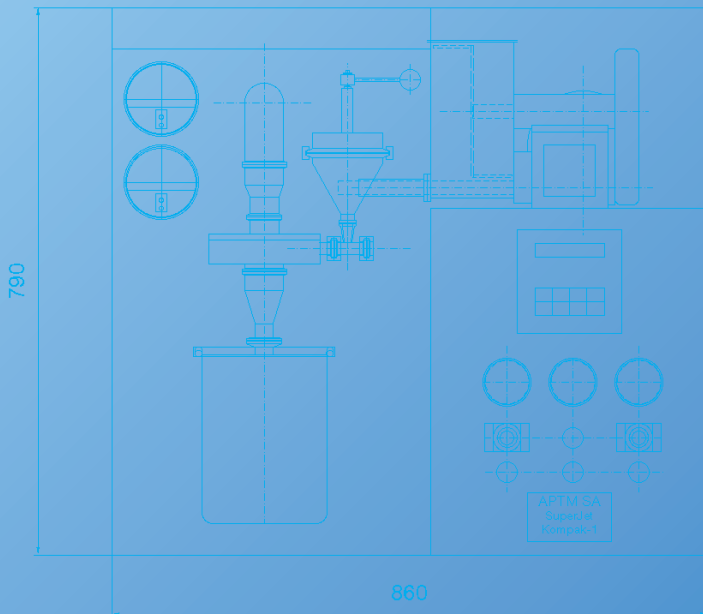


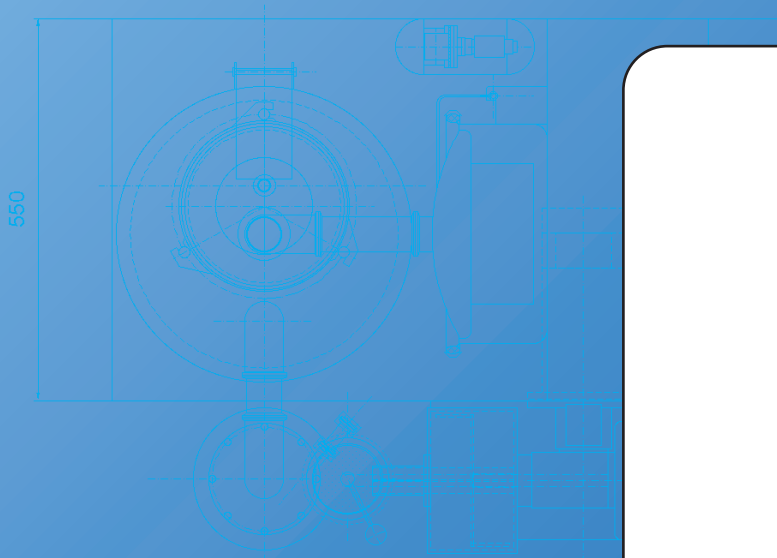
APT™

ADVANCED POWDER TECHNOLOGY
AND MICRONISATION

KOMPAK-1



Versatile
Simplicity for
R&D Applications



SUPERJET MICRONISER

SuperJet Kompak-1 ...

SuperJet microniser Kompak-1 is the typical machine for laboratory and R&D applications.

In production since 1988, this machine was repeatedly improved in terms of versatility and compactness, and offers two compositions: bench-top and self-standing units. The modular design allows customization and interchangeability for different product hoppers, collecting bins and optional controls.

BASIC MACHINE

All the construction versions feature the following equipment:

- SuperJet microniser with direct collection of the product from the grinding chamber, without risk of fiber contamination. It has a nozzle ring with optimized grinding angles, a horizontal venturi feeding system that avoids metal contamination and built-in, static classifying system that assures very narrow, particle size distribution



SUPERJET KOMPAK-1
BENCH-TOP VERSION, CUSTOMIZED

- Twin-shaft feeder, volumetric type, with concave-profile, self-cleaning, screws, able to break the agglomerates and to assure an accurate feeding of poor flowing products, for the whole batch. Speed is controlled by a stepless, mechanical variator.
- High-efficiency, dust separator combining inertial and static effects, with

membrane filter cartridge, reverse-pulse, automatic cleaning and final, safety HEPA that exhausts breathing air quality to the atmosphere.

- Standard controls, integrated in the front panel, include process pressure regulators, pressure gages and differential gages to monitor the filters.
- Full stainless steel construction and all internal parts hand polished with extrafine, mirror finish 320-360 grit, Ra 0.25-0.32µm.

STANDARD VERSION

Standard Kompak-1 version is addressed to fine chemical and cosmetics industries.

It employs the simplified, SM1 SuperJet microniser that has fewer components. The grinding angle is determined for the range of specified products. Contact parts are made of AISI 304 stainless steel.

PHARMA VERSION

Kompak-1 Pharma version is sanitary, USDA-accepted design and in line with Good Manufacturing Practice and pharmaceutical specifications worldwide.

It is equipped with JM1 SuperJet microniser that has replaceable nozzle rings with optimized grinding angles for different products or range of products.

The microniser disassembles in more parts, without threads or recessed surfaces, for perfect cleaning of components and fast changeover, without risk of cross-contamination.

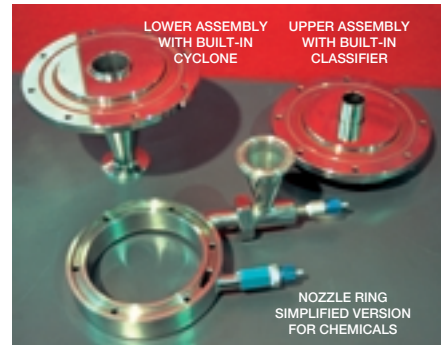
The dust separator is cylindrical, with wide opening of the cover, and features sanitary, V-clamp connections.

The process equipment is made of stainless steel AISI316 (AISI316L). Materials, filters and internal finishing certificates are routinely supplied.

OPTIONS

Due to the modular design, both versions can be equipped with the following options at any time:

- automatic controls and sound alarm that monitor continuously the factory air supply and the process lines and stop the operation in case of failure
- high-precision, electronic pressure



SUPERJET MICRONISER SM1
CLEAN DESIGN WITH FEW COMPONENTS
PHARMA VERSION IS SLIGHTLY DIFFERENT

controls that monitor the microniser with proportional pressure regulators, specifically dimensioned for very quick response and steady operation

- synoptic and LCD-alarm display with fault messages in plain english, to signal pressure drops on the microniser lines and across the filters
- electronic motor controller allowing stepless regulation of feed speeds across the specified range and features current limiting to prevent overloading
- sterilizing air filters for each process line, USDA-approved and certified
- batch validation equipment including 4-20mA loop signals from pressure transducers and process recorder to document each event and alarm.
- vacuum compensation system that avoids environment contamination in case of blow-backs.
- replaceable internal linings include PTFE, polyurethane, boron carbide and hard-metal alloys, etc.

All SuperJets can be customized according to the product specification.

Special versions such as inert-gas and 10/16-bar pressure shock resistant machines are described in separate data sheets.

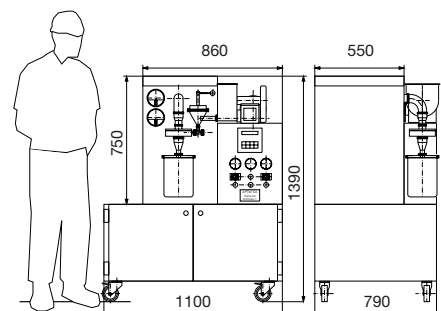
SuperJet family is composed of nine micronisers, from 4" to 42" size, with capacities from 0.2 kg/hr to 3700 kg/hr.

Other machines, especially designed for micronised powders, such as the SuperMix blenders, complete the family.



TECHNICAL CHARACTERISTICS

SuperJet Microniser	JM1/SM1
Nominal size	4 inch
	105 mm
Air/Inert gas @ 7bar	0.8 Nm ³ /min
	28 scfm
Supply (rec'd)	10 bar
	145 psi
Installed power	0.45/0.6 kW/HP
Expected output	0.2-1.5 kg/hr



ALL DIMENSIONS IN MILLIMETERS

... what a high-tech microniser should be