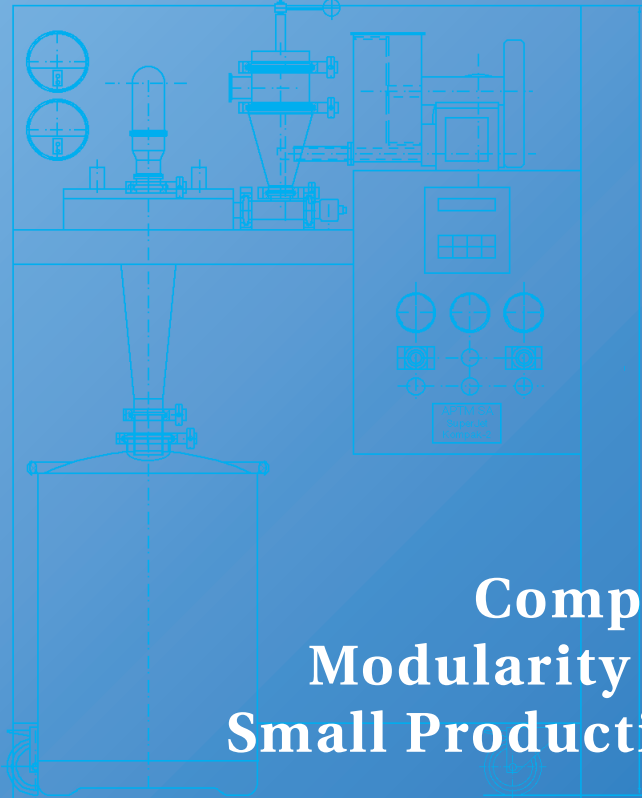
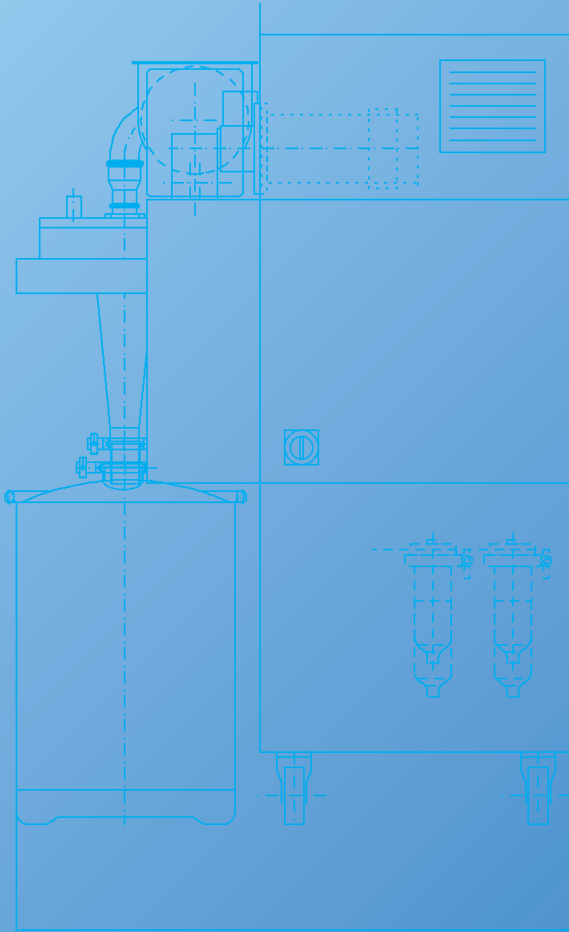


APT™

ADVANCED POWDER TECHNOLOGY
AND MICRONISATION

KOMPAK-2



Compact
Modularity for
Small Production



SUPERJET MICRONISER

SuperJet Kompak-2 ...

SuperJet microniser Kompak-2 is the typical machine for pilot trials and small production, below 50-70 kgs batch.

In production since 1988, this machine was repeatedly improved in terms of versatility and compactness. Major part of the equipment are located inside the stainless steel housing.

Simplified constructions with equipment located on tables or skids, are also available.

The modular design allows customization and interchangeability for different product hoppers, collecting bins and optional controls.

BASIC MACHINE

All 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

- Twin-shaft feeder, volumetric type, with concave-profile, self-cleaning,



SUPERJET KOMPAK-2, SIMPLIFIED VERSION

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.

- Venturi silencer with sight glass and PTFE wiper, actuated by hand

- 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 simple, modular design allowing easy access to internal parts that are hand polished with extrafine, mirror finish 320-360 grit, Ra 0.25-0.32µm.

STANDARD VERSION

Standard Kompak-2 version is addressed to fine chemical and cosmetics industries.

It employs the simplified, SM2 SuperJet microniser with fewer components.

The grinding angle is determined for the range of specified products.

Advanced JM2 SuperJet microniser with replaceable nozzle rings is also available. Contact parts are AISI 304 stainless steel.

PHARMA VERSION

Kompak-2 Pharma version is sanitary, USDA-accepted design and in line with Good Manufacturing Practice and pharmaceutical specifications worldwide.

It is equipped with JM2 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 and has sanitary clamp connections.

The process equipment is made of stainless steel AISI316 (AISI316L).



KOMPAK-2, 10-BAR PRESSURE-SHOCK RESISTANT

Super-mirror finish of contact parts, 400-600 grit Ra 0.16-0.25µm is also available. Materials, filters and roughness certificates are routinely supplied.

OPTIONS

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

- high-precision, electronic pressure controls that monitor the microniser with proportional pressure regulators

- synoptic and LCD-alarm display with fault messages in plain english

- electronic motor controller allowing stepless regulation of feed speeds across the specified range and features current limiting to prevent overloading

- batch validation equipment including 4-20mA pressure transducers and process recorder to document each event.

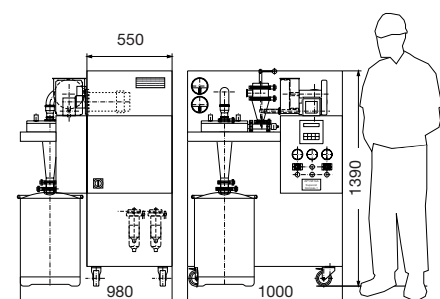
- vacuum compensation system that avoids environment contamination in case of blow-backs.

- replaceable internal linings include PTFE, polyurethane, boron carbide and hard-metal alloys, etc.

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

TECHNICAL CHARACTERISTICS

| | |
|----------------------|--------------------------|
| SuperJet Microniser | JM2/SM2 |
| Nominal size | 8 inch |
| | 205 mm |
| Air/Inert gas @ 7bar | 3.0 Nm ³ /min |
| | 110 scfm |
| Supply (rec'd) | 10 bar |
| | 145 psi |
| Installed power | 0.45/0.6 kW/HP |
| Expected output | 0.4-38 kg/hr |



ALL DIMENSIONS IN MILLIMETERS



... what a high-tech microniser should be