

The Monthly Micron

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Fluid Energy Processing and Equipment

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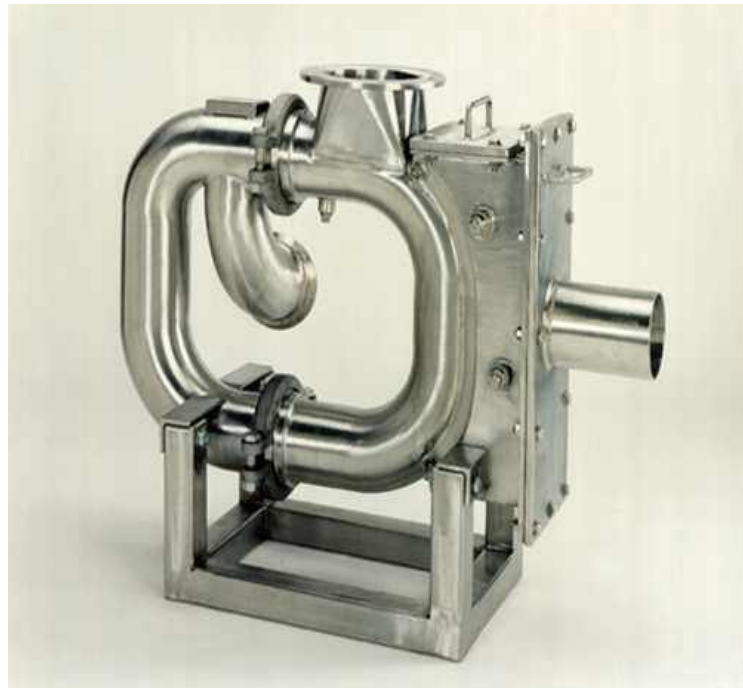
Please join us at Interpex 2005 on April 26-28. If you would like free tickets to the event, please click on the [interpex](#) link below and we would be happy to forward you complimentary passes. sales@fluidenergy.com



INTERPHEX2005

**Visit us at booth #
2384**

Flash Drying and Deagglomeration In One System



The ThermoJet system produces a discrete, dry product from any raw feed, including wet powder, slurry, centrifuge or filter cake. Automated system operation and high thermal transfer maximize product quality and drying efficiency. Systems are engineered for laboratory, pilot and full-scale

production from 500 grams to 100,000 lb/hr. The ThermoJet's wide range of operational temperatures and drying gases provide safe processing of all materials including heat-sensitive and reactive products.

Low-pressure air or inert gas is heated and introduced into the ThermoJet manifold. Nozzle locations, sizes and angles are engineered to develop a controlled evaporative circuit. Drying and deagglomeration begin as the wet feed enters this high-velocity gas circuit in the drying chamber. The turbulent flow maximizes inter-particle collisions and deagglomeration. The continually increased surface area reduces drying time and protects particles from overheating. The material is conveyed into a separate classification zone, where properly sized dry product is removed by the frictional drag of the exiting gases. Heavier, moist particles are recycled to the drying chamber.



The ThermoJet Flash Dryer is a wise choice over rotary and/or tubular dryers. The simplicity of operation, lower maintenance costs and larger capacities make it an ideal alternative. The equipment is shipped assembled, and only requires general piping, wiring, insulation, and interconnecting ductwork upon delivery.

<http://www.fluidenergype.com/htm/thermaj2.htm>

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Optimization of the operating conditions for lab-scale jet mill.

In pharmaceutical products, the particle size of drugs and components may affect processing and bioavailability. An increasing number of compounds that are investigated in industrial drug discovery have low aqueous solubility. For class II compounds (according to the biopharmaceutical classification), dissolution rate is the limiting factor for bioavailability. [Go to AAPS web site for more information](#)



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