MODEL 0002 FLUID BED SYSTEM
WITH ULTRASONIC ATOMIZING LANCE

FEATURES & BENEFITS
MODEL 0002 FLUID BED SYSTEM

• Conidur plates ensure uniform air distribution through the bed
• Unique Wurster plate design ensures proper flow of material
• Easy-to-use controls, adjustable touch screen and data logging
• Spraying Systems Co. nozzles provide superior spray distribution
• High-retention filter system reduces product waste
• Precise, in-process air flow and temperature controls for improved batch accuracy

ULTRASONIC AIR ATOMIZING LANCE

• Patent-pending design provides superior accuracy in spray pattern formation
• Gentle Wurster coating of fine particles 30 microns or smaller
• Ultra-fine Ultrasonic spray prevents agglomeration
• Adjustable shaping air pressure allows users to achieve the desired liquid droplet velocity
• Flow rates range from 0.5 cc/min to 10 cc/min

UNIFORM COATING OF FINE PARTICLES WITH ULTRASONIC SPRAY TECHNOLOGY

Ultrasonic spray technology from AccuJet® delivers the precise, uniform spray required for delicate, complex fluid bed coating processes—such as Wurster (fluid bed) coating—while providing a high level of control over the spray, allowing users to make fine adjustments on the fly. Fluid Air will work with you to integrate Ultrasonic spray technology into your customized fluid bed processor.

TYPICAL APPLICATIONS

• FLUID BED DRYING
• WURSTER COATING (FLUID BED COATING)
• FLUID BED GRANULATION
• PHARMACEUTICALS - GENERAL
SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL 0002 FLUID BED SYSTEM</th>
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<tbody>
<tr>
<td>Ultrasonic bowl volume (L)</td>
</tr>
<tr>
<td>System height (inches / mm)</td>
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<tr>
<td>System width (inches / mm)</td>
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<thead>
<tr>
<th>ULTRASONIC AIR ATOMIZING LANCE</th>
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<tr>
<td>Nozzle orifice diameter: 0.03&quot; (0.762 mm)</td>
</tr>
<tr>
<td>Droplet size range: 10-90µm</td>
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<tr>
<td>1/8&quot; NPTF connections (shaping/cooling air inlets and exhaust)</td>
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<tr>
<td>1/2&quot; hygienic liquid inlet connection</td>
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<tr>
<td>316SS lance with titanium ultrasonic horn</td>
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<tr>
<td>Choice of FDA VITON or EPDM elastomers</td>
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CONFIGURABLE TO MEET YOUR PROCESS REQUIREMENTS

Custom options for Model 0002 Fluid Bed Systems include:

- Product temperature indication
- Recipe control (Batch Architect™)
- Custom PAT ports
- Nitrogen inerting systems
- Product containment and isolation configurations
- Custom liquid delivery and instrumentation
- Ultra-low airflow configurations
- Hot melt liquid delivery systems
- Custom dewpoint air preparation units
- Potent compound processing capabilities

ADDITIONAL RESOURCES

**Pharmaceuticals and Biologics**
Catalog C12 (spray.com/pharmcatalog)
Online catalog details Spraying Systems and Fluid Air’s entire offering for the pharmaceutical and biologics industries.

**Model 0002 (R&D Scale)**
Fluid Bed System, Bulletin FA104
Additional bulletin features more info on Fluid Air’s Model 0002 fluid bed system for R&D applications.

**AccuJet® Ultrasonic Spray System**
Spray Nozzle and Controller, Bulletin 660A
Features information on the AccuJet® Ultrasonic Spray System.

**MAGNAFLO® / MAGNACOATER®**
Fluid Bed Systems, Bulletin FA100A
Describes how these systems optimize drying, granulating and coating for R&D, pilot and production scale solid dosage applications.

Experts in Solid Dosage Technology
A Division of Spraying Systems Co.