

VFC-LAB 3 FLO-COATER®

MULTI-PURPOSE LABORATORY FLUID BED



With its standard drying, top spray and bottom spray capabilities, as well as the optional GRANUREX® rotor insert, the VFC-LAB FLO-COATER® series are the most versatile laboratory scale fluid bed systems available. The unique design of the combination product container/Wurster processing insert and integrated solution pump eliminates the need for costly “add-ons”. The combination product container also allows for quick changeover and cleaning between processes. Portable, flexible, efficiently cleaned, and easy to operate, the VFC-LAB series is the perfect solution for your process development requirements.

FOR GRANULATION, COATING AND DRYING PROCESSES

- **Flexible System Configurations**

- Top Spray: Wet Granulation
- Bottom Spray: Solution/Powder Coating
- Patented Wurster Accelerator for Reduced Process Time
- GRANUREX® Rotor Technology (Patented):
- Solution/Suspension Coating
- Spherical Granulation
- Dry Polymer Layering
- Powder Layering
- Drying
- 10 Bar Tower Construction

- **Quick-Changeover Design**

- Removable Spray Gun and Product Screens
- Removable Cartridge Filters (2µ retention)

- **Integrated Peristaltic Pump**

- Precision Solution Addition

- **Smart-Safe™ Containment Optional**

- **Color Touch Screen Control System**

- Validatable Process Control:

- Inlet Airflow and Temperature Control

- Solution Spray Rate Control

- Process Endpoint Control:

- Time, Exhaust or Product Temperature

- USB Data Collection Port

- Optional COMPU™ Control System

- 21 CFR Part 11 Data & Recipe Handling System

- **Optional Processing Flexibility**

- Alternate Size Processing Inserts

- Hot Melt Processes

- **Portable, Self-Contained System**

- Electrical and Compressed Air

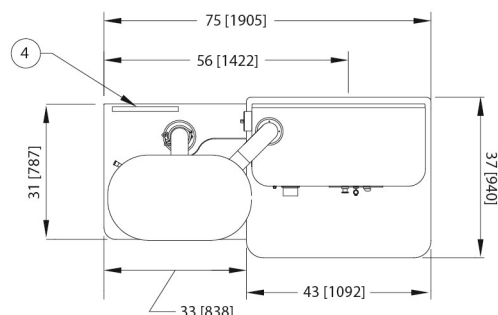
- Connections for Easy Removal of System

- **Inline PAT Monitoring**

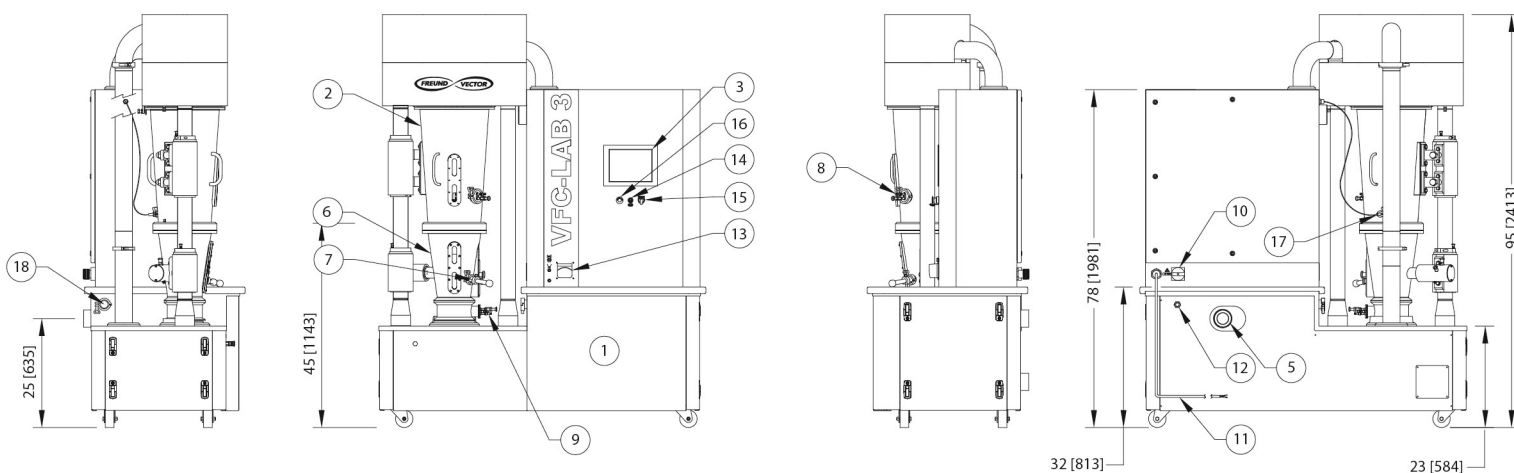
- Real Time Moisture and Drying Analysis

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MULTI-PURPOSE LABORATORY FLUID BED



1. Roll-Around Cabinet
2. Filter Chamber
3. Color Touch Screen OIP
4. Air Inlet with Prefilter
5. Air Exhaust
6. Combination Product Insert
7. Sample Port
8. Granulator Spray Gun Assembly
9. Wurster Spray Gun Assembly
10. Main Power Disconnect
11. Main Power Cord Connection
12. Main Air Supply
13. Peristaltic Pump
14. USB Data Port
15. Control Power Switch
16. Emergency Stop Switch
17. Product Temperature Sensor
18. Drying Accelerator Duct Connection



1. Dimensions are shown in inches and (millimeters)

2. Dimensions shown are design dimensions and are subject to change due to manufacturer's tolerances.

TECHNICAL SPECIFICATIONS

Capacity (Top Spray): 10 L	Compressed Air Supply: 50 m ³ /hr @ 6 bar
Capacity (Dryer): 12 L (Standard)	Electrical Supply: 220/400 VAC, 50 – 60 Hz, 3 Phase
Capacity (Dryer): 20 L (Optional Insert)	Weight: 630 kg (approximate)
Capacity (Wurster): 9 L (8 Inch)	Solution Delivery Rate: 1.25 – 110 mL/min
Capacity (GRANUREX® GXR): 10 L	Design Standards: CE, ATEX, UL, NFPA, CSA. VDI 2263
Inlet Air Temperature: 100°C (maximum)	Solvent Rating: Non-hazardous
Process Air Volume: 280 m ³ /hr	(Hazardous Ratings Available)

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