

## Flo-Coater Fluid Bed Systems

For Pilot and Production Scale Drying, Coating, and Granulation Processes

### Engineered for Reduced Process Times

- Increased Product-To-Filter Distance for Increased Airflow and Spray Rates

- Widened Expansion Chamber for Improved Product Movement through Spray Zone

### Flexible System Configurations

- Top Spray Granulation and Drying Processes

- Scalable Capacities from 30 kg to 950 kg

- Non-Inflatable, Removable Air Seals for Easy Cleaning

- Full Range of Product, Solution, and Air Handling Options

### Full Containment Design

- In-Wall Design Minimizes Required Processing Area

- 12-Bar Pressure Tested Construction

- Cartridge Filters for Superior Particle Retention

- Optional CIP Configuration Available

  - Non-Removable Stainless Steel Cartridge Filters

  - Single Point Connection for Cleaning Solutions

### Ideal Design for Granulation Suites

- Product Handling by Mechanical, Vacuum, or Gravity

### Validatable, Easy-To-Use Control System

- Automatic (Recipe-Driven) and Manual Modes

- Optional Compu 4<sup>®</sup> Control System

  - 21 CFR Part 11 Data and Recipe Handling System

  - Control of Entire Granulation Suite with One OIP



*VFC-300X Shown with Optional Vacuum Charge and Discharge System and CIP Configuration*

The VFC Flo-Coater System is uniquely engineered to meet the specific requirements for every installation. Every VFC Flo-Coater is backed by Vector's comprehensive range of services, including product and process development, process scale-up and transfer, calibration and maintenance programs, and proactive project management. Simple-to-use, economical, and designed for maximum processing effectiveness, the VFC Flo-Coater family is the ideal solution for your current and future fluid bed processing requirements.

#### VECTOR CORPORATION

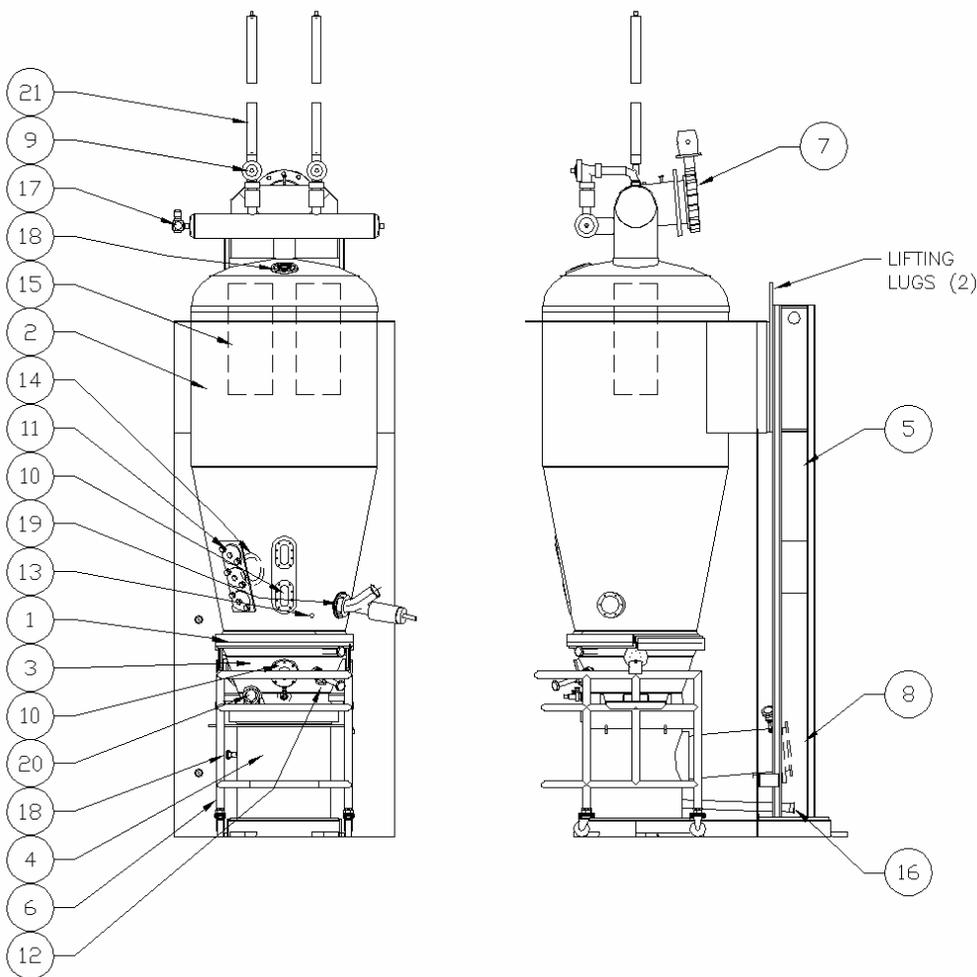
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# VFC-X



1. Air Seal
2. Expansion/Filter Chamber
3. Product Container
4. Inlet Air Plenum
5. Support Frame
6. Product Container Cart
7. Exhaust Duct
8. Inlet Duct
9. Filter Pulse Accumulator
10. View Windows
11. Optional Gun Ports
12. Sample Port
13. Product Temperature Probe
14. Inspection Light Window
15. Cartridge Filters
16. Drain and Shut Off Valve
17. Air Pressure Regulators
18. Optional CIP Ports
19. Optional Vacuum Charge Valve
20. Optional Vacuum Discharge Valve
21. Filter Lowering Cylinders

MODEL	STANDARD SIZE		INCREASED SIZE		AIRFLOW
	Volume (Liters)	Working Capacity (kg)	Volume (Liters)	Working Capacity (kg)	m <sup>3</sup> /hr
VFC-30X	100	30 - 50	120	36 - 60	3,000
VFC-60X	220	66 - 110	250	75 - 125	4,500
VFC-120X	420	126 - 210	500	150 - 250	6,000
VFC-200X	660	198 - 330	800	240 - 400	8,000
VFC-300X	1,100	330 - 550	1,200	360 - 600	9,500
VFC-500X	1,570	471 - 785	1,900	570 - 950	12,000

*Working Capacities Calculated Using 0.5 g/cc Bulk Density*

Providing equipment and processing solutions around the world since 1972, Vector is a subsidiary of Freund Corporation located in Tokyo, Japan. Globally, the Freund/Vector team has thousands of system installations in the pharmaceutical, healthcare, chemical, agricultural, and food industries.