Technical Specifications

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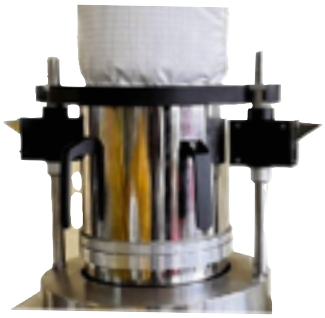
Fluid Bed Drier
FBD (Rapid Drier)

Model No.- VJFBD-Lab

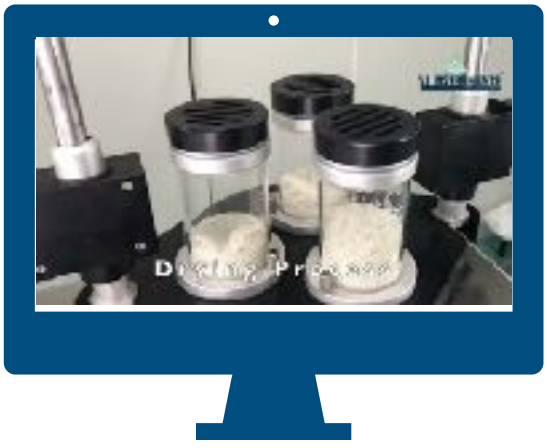
6 litre chamber



Glass or SS316 bowl.

0.3 Litre X 3 Bowl

WATCH NOW



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VJ INSTRUMENTS®
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About VJ Instruments

At VJ Instruments, we're not just a pharmaceutical instruments manufacturer; we're a driving force behind scientific innovation in the fields of Pharmacy and Pre Clinical research. Since our inception in 2006, we have continually strived to revolutionise the industry by delivering world-class products that not only meet rigorous quality standards but also prioritise ease of use

Our team comprises seasoned professionals with extensive experience in the pharmaceutical industry and academia. We have a proven track record of excellence and a deep understanding of the unique challenges and requirements of the field.

Our Products are specifically meant for small animal behaviour research as well as tools used in R&D, pilot drug development. We also deal with innovative custom-based requirements, tailoring solutions to the specific needs of our clients.

Customer Support

At VJ Instruments, we recognise that our clients need to maximise their ROI over the entire lifecycle of ownership. For our clients, machine downtime is not acceptable. To support them, we maintain a dedicated team of service engineers.

Technical Support and Repair

Live and immediate technical support is available using all major communication tools.

Standard on-site response time.

Value Added Services

We offer our clients value-added services so that they can run their machines with the highest efficiency over time.

- Operator training programs
- Annual maintenance contract
- Machine upgrade consultations

*Terms & condition apply.

Industries we Serve

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General

The fluid bed dryer VJFBD-Lab is used in quality control, sample preparation and R&D departments. It permits the **gentle drying** of organic, inorganic, chemical or pharmaceutical bulk materials **without localized overheating.** Suitable materials can be coarse, fine, crystalline, fibrous or leafy. The powerful fan of the fluid bed dryer ensures **optimal air throughput** so that the products to be dried are loosened up and thoroughly mixed resulting in **short drying times.** With the interval operation the fluidized bed is mixed even better. Temperature, drying time and air volume can be set though PLC & HMI and adjusted continuously.

Application

Drying in the Fluid Bed Dryer VJFBD-Lab makes use of the fluidized bed process, a technique similar to the one used in large industrial dryers. Ambient air is drawn in through a filter. A blower moves the air across the heating elements, and ultimately forces it through the perforated plate and into the detachable drying container. The solid particles are blown upward and dispersed and thus kept separate from one another. This helps to avoid a caking and sticking of the particles as it often occurs when other drying methods are used.

The air stream of the fluid bed dryer extracts moisture from the particles and then exits through the filter bag in the cover. Using the quick-clamp cover with the filter fleece insert is advisable when dealing with products finer upto 100 µm in diameter. The 1000 watt blower provides an air volume of 185 m3/h at idle speed; heater output is 2000 watts. The air volume, heating power and temperature are infinitely adjustable. Temperature control is effected using he display gauge.

Application Examples

Cellulose, Coal, Coke, Compost, Leather, Pharmaceutical Materials, Plastic Granules, Refuse derived fuels, Saw dust, Soils, Splints, Waste Samples, ...

Product Advantage

- Gentle drying, dispersing and mixing also of temperature sensitive materials
- Very short drying times (~ 5 - 20 min)
- Powerful fan for optimal air throughout
- Easy handling
- Interval operation for better mixing of the fluidized bed wide range of accessories Including various containers memory (Recipes) for up to 15 SOPs
- Motor with no brushes allows for long service life

Temperature (minimum value at different speed of blower) at dry run.

Air Flow	Minimum Tempt.	Room Tempt.
10	32°C/89.6°F	27°C/80.6°F
20	35°C/95°F	27°C/80.6°F
30	37°C/98.6°F	27°C/80.6°F
40	39°C/102.2°F	27°C/80.6°F
50	41°C/105.8°F	27°C/80.6°F

Air Flow	Minimum Tempt.	Room Tempt.
60	51°C/123.8°F	27°C/80.6°F
70	55°C/131°F	27°C/80.6°F
80	56°C/132.8°F	27°C/80.6°F
90	57°C/134.6°F	27°C/80.6°F
100	58°C/136.4°F	27°C/80.6°F

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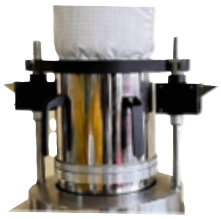
Sr. No.	Specification	Details
1	Certificate	GMP, ISO,CE
2	Material of Contraction (MOC)	Contact Part SS 316 & Glass Non Contact Part SS304/Aluminium
3	Application	Drying
4	Feed Material	Agriculture, biology, chemistry / plastics, construction materials, environment / recycling, food, medicine / pharmaceuticals
5	Feed material Size	Bulk materials and solid
6	Material feed size	> 100 µm (depending on feed material and instrument configuration/settings)
7	Air Volume flow	Through blower.
8	Operation	Trough HMI
9	Time Setting	Through HMI - Digital 1-99 min / Continuous
10	Storable SOPs	99
11	Temperature control	Continuously adjustable, 40°C- 100°C (depending on air throughput rate) Dry Run Tempt. 32°C Blower speed min- 58°C Blower speed maximum in standard room temp 27°C.
12	Container Volumn	• 6 Litre   • 0.3 litre 3 chamber (Glass) with close lead and filter bag option. 
13	Electric Points Required	Main machine- 16 Amp.
14	Electrical Supply	Single Phase 220V 50Hz
15	Power connection	Single Phase
16	Dimension (LXWXH) in mm	600 mm X 480 mm X 621 mm approximately 762 mm X 685 mm X 762 mm With packing (approximately)
17	Weight	38 kg approximately 70- 90 kg with packing depending on accessories.

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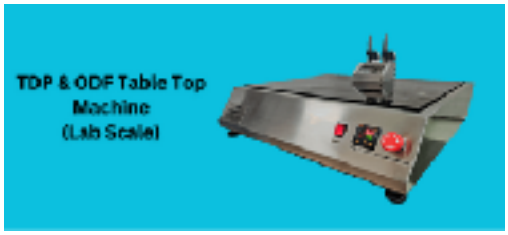
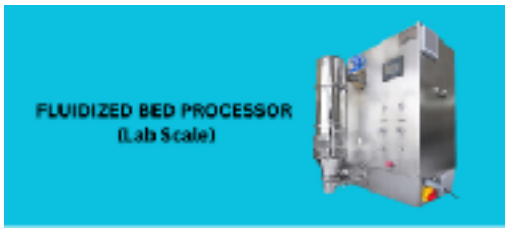
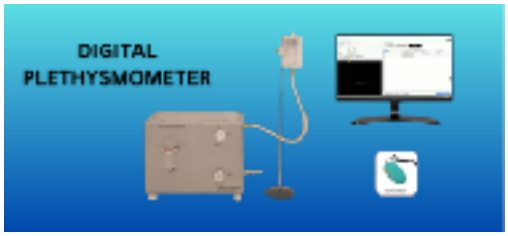
Some of Our Other Instruments.

https://www.vjinstruments.com/products/







Note - Upgrading design is continuous process.

1. All the images displayed in the offer are for representation purpose only but actual may vary.
2. Dimension & weight may vary

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International Clients

hikma. Medisca Seedcare syngenta Global Y.S.P.SAH helicon Комплексное оснащение лабораторий с 1997 года FITABEO THERAPEUTICS VIRA RANESA DEC PHARMACEUTICAL COMPANY Astron Ltd. 1994

Industrial Clients

Akums fertin India LUPIN HILTI incozen inventia MEDCHEM TATA CONSUMER PRODUCTS iPHARMED MOREPEN KASHIV BioSciences BELLATRIX AEROSPACE MICRO LABS nsr ETONEX Talent Healthcare Leben Life Sciences Rusan Optimus AUXILLA Pharmaceuticals YUTIKA NuLife Sai CRYSTAL BIOLOGICAL SOLUTIONS UMESH MODI GROUP MODINAGAR AMTZ

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