

R&D Coater  
Tablet Coating Machine

Model No.- VJRDC - 01



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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



PHARMACEUTICALS



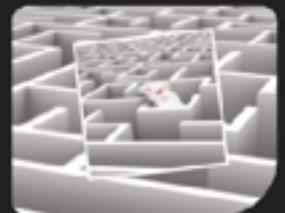
FOOD



COSMETICS



NUTRACEUTICALS



PRE-CLINICAL

## General

A revolutionary self-contained film coater is adapted to handle smaller trial batches of tablets. The Pharma R&D Coater has elegant exterior fabricated of SS 304 box with coating pan supported in a tangential position of 35° to 90°.

## Operation

The R&D Coater is an integrated and semi-automatic unit consisting of stainless steel coating pan, a spraying system, a hot air blower, and an exhaust system. It uses the rotary momentum of the coating pan to tumble the tablets/granules contained within it. Baffles are provided along the interior walls of the pan to tilt the contents for efficient coating.

As film coating requires a spray technique, a spray gun delivers finely nebulized droplets of the coating solution onto the moving bed, in such a manner as to ensure uniform coverage. The tablets are dried by directing a stream of hot air onto the surface of the tablet bed and the exhaust between 60 C- 80 C, to achieve better performance. All the setting, including the temperature and rotation speeds can be measured and adjusted accurately using the advance control panel. Feeding and retrieving the tablets/granules from the pan should be done with scoop, and the various parameters for coating should be established through trials.



**Different Size of Pan**



**Spray System**

# Technical Specifications



Sr. No.	Specification	Details
1	Certificate	GMP, ISO, CE
2	Pan Size & MOC	Pan 4" & 6" with Baffles Standard SS316 Optional 8" & 12" available (On demand with extra Cost)
3	Capacity In Kg	Depending on density of material capacity vary. 4" - 30 to 100 gm /6" - 150- 250 gm 8" - 300 - 800 gm/ 12" - 1kg to 2 kg
4	Pan Speed RPM	5 to 100 RPM
5	Main Drive HP	0.05HP (0.037Kw)
6	Blower For Hot Air Watt/CFM	71 watt/215CFM
7	Exhaust Blower Watt/CFM	71 watt/215CFM
8	Electric Heater in Kw	1 Kw- Room Temp to 80 Degree Celcius
9	Compressor Air Required	Filter Air with min 2 Bar Pressure supply should be provided by Client.
10	Electric Supply	Single Phase 220V 50Hz or Single phase 110V/50 Hz
11	Electric Points Required	a. For Main machine- 16 Amp. b. Compressor -16 Amp. C. For Peristaltic Pump - 16 Amp
12	Spray Gun	SS 316 with 1.00 mm Orifice. (Can Modify Diameter as per requirement) End Connection For Liquid 1/4 BSP (F) For Atomised Air 1/4 BSP
13	Peristaltic Pump	Head - Single 1.00- 4.00 mm bore size with wall thickness of 1.5mm. Display - 3 digit LED display for RPM Duel Roller with spring loaded Truck.
14	Pneumatic Control	The customer has to ensure, supply of oil free compressed air, also free from any other impurity which may contaminate the product. Air Filter and Air water separator are also provided with the machine. Pressure regulator is provided to regulate the desired air pressure. Air Filter and Controlled to control Air of Spray Gun
15	Different Mounting angle	45 to 60 degree
16	Exhaust Arrangement	Yes
17	Pan Motor	0.05 HP
18	VFD Drive	For Speed Controlling from 5 to 100 rpm
19	MOC	Contact Part SS 316/ Non Contract part SS 304
20	Finish	Internal - Mirror External Matt
21	Electric Consumption	3.5 Kw@230V, 50 Hz
22	Dimension (LXWXH) in mm	600mm X 400 mm X 1200 mm approximately
23	Weight	90 kg / 150 kg with packing

## Some of Our Other Instruments.

<https://www.vjstruments.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

## International Clients



## Industrial Clients



## IITs, AIIMS, CSIR, Government & Private Institute

