

Electrostatic

statfield
equipments



Total Liquid Painting Solution
Amazing Quality Finish
Phenomenal Savings



Paint More Spend Less



Electrostatic Spraying Equipment for Paint & Lacquer-Charjet L

A part of the Intech Group of Companies, Statfield Equipment Pvt. Ltd. is a proven leader in the field of surface application technologies for over four decades. True to our pioneering heritage, we offer the most comprehensive solutions for high quality liquid painting needs with unmatched sophistication in equipments, accessories and innovative customisation. We sell products and systems, but above all we sell solutions to complex technological problems to enable our customers to reap full benefits of our products and systems. The wealth of a dozen patents, both domestic and international, do full justice to our punch line, "Where innovation sets pace".

High Quality Finish & Maximised Paint Saving Through Charjet L

The conventional systems suffer from the draw back of extreme paint wastage. This draw back is overcome by Charjet L electrostatic spray equipment. The charged paint in Charjet L gets attracted towards the grounded article providing wrap around effect resulting in phenomenal paint saving and good edge coverage. In case of spherical/tubular objects, this saving is even more, as greater area is covered by the wrap-around effect.

Applications

Charjet L is ideal for mass production articles such as automobile components, fan, furniture, bicycles, LPG cylinders, lacquer coating, lighting fixtures, control panels, drums etc.



Nozzles (Optional)



Round Spray Pattern
(For tubular / small articles)



Flat Spray Pattern
(For flat or big articles)



Technical Specifications:

Input Voltage	Air Pressure	Paint Pressure	Hose/Cable Length	Paint Output	kV
230 V AC at 50 Hz	7 kg/cm ² Maximum	5 kg/cm ² Maximum	5 meter each	700 cc/min	70 kv DC (-ve)* displayed on LED

* +ve charging can be supplied on demand for paints like teflon, nylon

Auto Electrostatic Spray Gun

Auto electrostatic spray gun is ideal for mass production articles where paint consumption is very high. The gun can be mounted on reciprocators.

Paint Transfer Pump-Prapat

A pump in the paint spraying system is used for ensuring uninterrupted, uniform and filtered paint feeding to the spraying equipment.

The pneumatically operated piston type pump is a compact and sophisticated option to the conventional pressure feed container. Prapat provides uniform and easily controlled delivery. It is easy to monitor as suction hose is dipped in the paint container. Its design is sleek, light weight and ensures great reduction in paint wastage in the process of cleaning and colour change.

Prapat II is recommended where the number of guns are more and for bulk paint transfer.

Technical Specifications:

Important Parameters	Prapat	Prapat II	Optional
Pump Ratio	1:2.5	1:5	Trolley Mounting
Max Fluid Pressure	14.2 kg/cm ²	32 kg/cm ²	or
Max Fluid Output	4.5 ltrs/min	20 ltrs/min	Bracket Mounting



Charjet

Prapat

Liquid Paint Booths

Ingenious design is at the heart of Statfield's liquid painting booths. This gives our booths the edge to accommodate complicated customisation and automation to optimise efficiency. Statfield's pedigree is the proof that our expertise and resources can handle these requirements effortlessly. Statfield's booths have proven leadership for 4 decades in the field of surface coating application technologies.

A Booth is critical for ensuring a pollution-free environment during operation. It is basically used to arrest over sprayed paint efficiently which is harmful to environment.

Types of Booth

Statfield offers two types of booths :

- Water Wash Type
- Dry Type

Selection criteria

Selecting an appropriate type of booth for the operations depends on factors such as article size, production, type of paint, its consumption, type of application, number of operators etc. In instances where water is not available naturally, metallic or absorptions filters are used.

Normally **Dry Booth** is recommended if paint consumption is low. **Water Wash Booth** is preferred when higher volume of paint demands higher paint killing. The **Down Draft** version in both cases is needed for large / heavy articles so as to coat article from all sides.

Water Wash Type

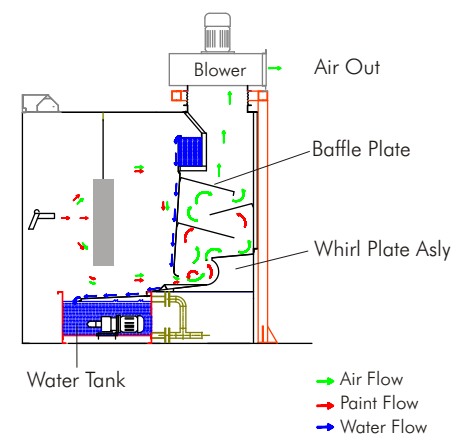
Side-Draft

The over sprayed paint is dragged towards the water flowing continuously over the screen. The turbulence is created below the screen & sludge is formed. The water and the sludge are separated in the filter at the bottom tank.

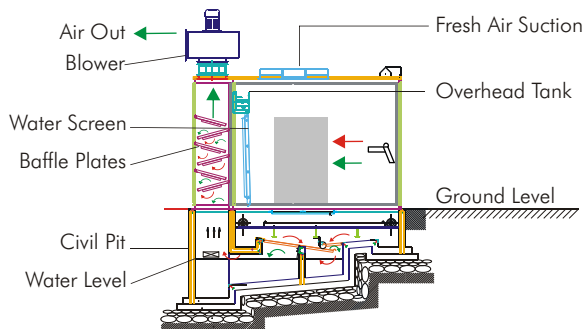
The clean water is pumped again to the top tank and flows over the screen. The air is sucked by the blower through the baffles wherein the last paint particle is separated. The baffles are very effective and can be removed, cleaned easily. The booth is very sturdy and used for heavy production schedules. It has more efficiency as compared to the dry booth. The blower is mounted on the separate structure. The sound level is as per norms.



Side-Draft Booth



Down-Draft Booth



Down Draft

The booth is available in water wash and dry versions. Here air draft is created downward. Article is normally kept stationary and the operator moves around. Over sprayed paint is dragged towards bottom. Material movement can be on ground trolley or by overhead conveyor.

Additional Features:

- Pressurisation can be provided if required for additional dust protection.
- For better paint results, humidity control with heater/chiller can be provided.
- To arrest paint fumes additional absorption filter can be given.

Special Application

Article holding with auto guns

Article holding fixture for horizontal holding of cylindrical automobile article rotating at 4-5 rpm. Stationary auto guns can be installed as per article size.

Statfield's unique design for article painting comprises of

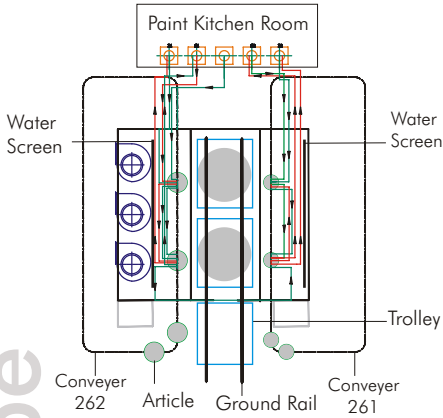
- Auto loading and starting of the cycle
- Rotation of article at required speed
- Auto spray with no. of guns and with different combinations
- Clamping
- Cycle stop



Liquid Paint Booths

Down Draft Side Draft Combination Booth

The combination of down-draft and side draft is used to achieve the advantages of both technologies. A separate water wall can be provided at the back or side of the booth for painting the small jobs. Down-draft booth is given for bigger jobs. These types of booths are also used where production is very high and number of operators painting at the same time is more.

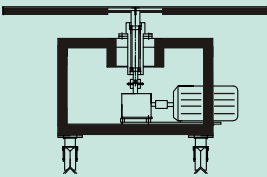


Special Application

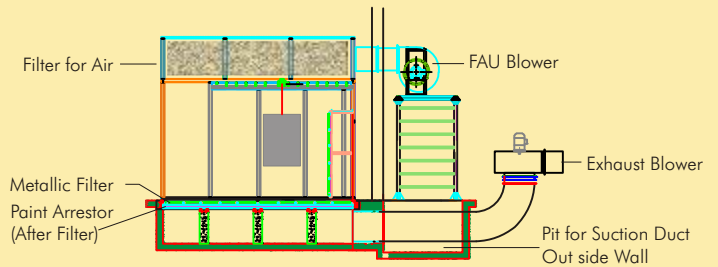
Same booth to paint large and small articles. Large articles painted with downdraft. For small articles -two water walls on each side are given to enable two operators to paint simultaneously. Articles move on stop and flow type conveyer.

Accessory

Turn table movement is automated by VFD and speed is maintained at 4-10 rpm to enable operator to concentrate on painting.



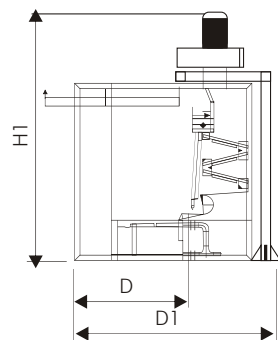
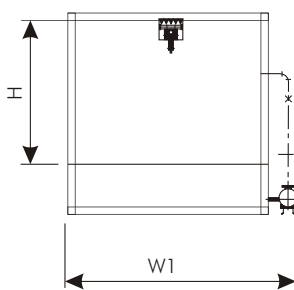
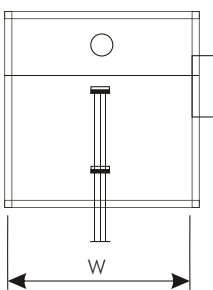
FAU- Fresh Air Unit



The new era of modernization has given rise to unmatched finish and painting technologies that calls for controlled and clean atmosphere. Fresh air units are provided on the top of the booth. It gives dust free and fresh air through filters. Pressurized air is sucked by exhaust blower for continuous circulation. These filters are of EU grade material.

A positive pressure created inside the booth prevents the dust entry from outside and enhances the painting conditions. Also continuous fresh air circulation is needed for the healthy operating condition inside the booth.

The system is very compact and can accommodate to all type of booths.



Refer to WW-SD Type Only

Technical Specifications:

Model	Working Dimensions (mm)			Overall Dimensions (mm)		
	W	D	H	W1	D1	H
WW-SD- 15	1420	1600	1910	2000	2710	3385
WW-SD- 20	1920	1600	1910	2480	2770	3500
WW-SD- 25	2420	1600	1910	3000	2820	3700
WW-SD- 35	3420	2000	3000	4200	3000	4200
WW-DD- 50	5000	5000	4500	5080	6000	4800
WW-DD- 60	5950	6645	4100	6080	8800	4300
WW-DD- 70	7000	6000	6000	7080	6800	6900
WW-DD- 80	8000	6000	6000	8080	6080	6150

Note: ● Dimensions may change +/-50mm. ● Side Draft Booths- front side open. ● Down Draft Booths - All sides closed.
 ● WW-SD: Water Wash Side Draft ● WW-DD: Water Wash Down Draft

Combination Type

Liquid Paint Booths

Dry-Type Booth

Side-Draft

This booth is recommended when paint consumption is less and/or water is scarce. Metallic filters are used for arresting over sprayed paint. These filters are removable and can be cleaned easily. Over sprayed paint is arrested in these filters. The velocity provided in the booth keeps the atmosphere very clean.

- Additional filters can be given to release clean air in the atmosphere.
- Article can be kept on turn table.
- Rails to take job in / out.



Dry Type



Down Draft

In this booth, metallic filters are provided to arrest the over sprayed paint on the floor.

As the name suggests, there is no water in this booth. The booth employs metallic filters at the bottom. These filters are easy to remove and clean. The booth environment is very clean.

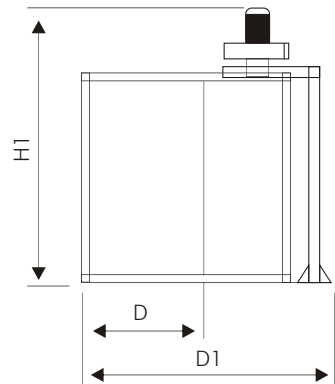
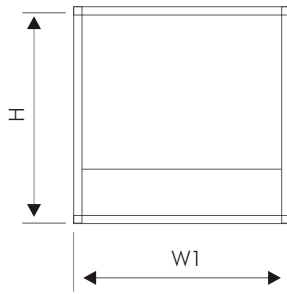
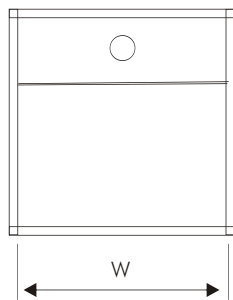
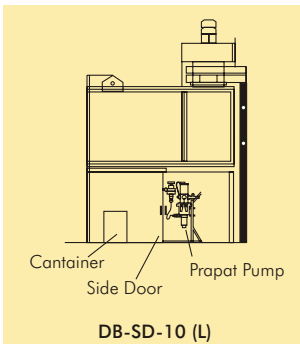
Dust free air

For additional dust protection, pressurisation can be provided. A plenum chamber is provided on the top of the booth. Pressurised air is pumped in the booth uniformly through this chamber.

Special Application

Oil Spray Booth

Very compact, partial S.S. booth with automatic electrostatic spray gun and Prapat pump used to spray antirust oil on cutting tools.



Refer to DB-SD Type Only

Technical Specifications:

Model	Working Dimention (mm)			Overall Dimention (mm)		
	W	D	H	W1	D1	H1
DB-SD-10 (L)	1250	1250	1000	1610	2050	2783
DB-SD-15	1500	1320	2040	1580	2250	3200
DB-SD-20	2000	1320	2040	2080	2250	3200
DB-SD-25	2500	1320	2040	2580	2250	3300
DB-SD-50	5010	4480	3500	5080	4620	3740
DD-DB-50	5000	3500	3500	5080	6560	3580
DD-DB-30 F	3000	3500	3500	3270	5165	4300
DD-DB-70 F	6800	3500	3500	7000	4500	3700

Note: • Dimensions may change +/-50mm. • Side Draft Booths- front side open. • Down Draft Booths - All sides closed.
 • DB-SD: Dry Back Side Draft • DD-DB: Down Draft Dry Bottom • DD-DB-F: Down Draft Dry Bottom with FAU

Accessories



Paint Circulation System

As the concept of Quality Mass Production emerged, it gave birth to the need for continuous & voluminous painting.

With statfield paint circulation system colour change at many booths is possible through one paint storage room. Also, different colours can be fed to different locations at the same time. Tremendous saving can be achieved.

Statfield undertakes the total responsibility of customised paint circulation system.

Salient Features:

- Quick colour change
- Uninterrupted paint feeding
- Constant viscosity



Mobile Paint Circulation System

All spray equipments are mounted on mobile trolley with quick cleaning facilities.

Important Features:

- Paint circulation, colour change, cleaning can be done with minimum hose length
- All connections in S. S.
- Filter choking can be monitored through pressure gauges.
- Additional filter provided, if filter chokes online changeover is possible.



Ovens : Electrical / Gas / Oil / IR

Generally electric fired ovens are selected for small batch size. For bigger batch size, oil fired or gas fired ovens are recommended. Heat exchanger gives advantage of indirect heating, resulting in cleaner process and better curing quality.

Ovens are required for baking of paint. Uniform baking with minimum running cost is important design aspect.



Material handling



Type 261 Up to 80 kg per trolley



Type 262 Up to 250 kg per trolley



Load Bar

A batch plant material handling system comprises of over-head track and loose trolley or ground trolley. Track and trolley is used for lighter articles. For heavy articles load bar is suitable (Two trolley can be joined). For still heavier articles ground trolley is suitable.

Stirrer

Any paint when not in use, settles down. With time, bottom portion of the paint gets thicker. Because of viscosity difference, shades change drastically. To avoid this, continuous stirring is necessary. Stirring is done at 360° with the pneumatic motor.

Model ST I : For general viscosity paint.

Model ST II : For medium and high viscosity paint.



Paint Filter

It is very important to separate any dust particles in paint. This is a very special 'plate type' filter. It can be cleaned easily on choking.

Model SPF 010



HVLP Turbine Spray Gun

Conventional air-spray gun atomises paint at high air pressure. Which results in fog (pollution) that decreases transfer efficiency. HVLP turbine spray gun is a revolutionary technology that delivers high volume of paint at low operating pressure.

- Fine atomisation ensures great finish.
- Increased transfer efficiency over the conventional systems.
- The soft spray pattern eliminates fog formation, resulting in clean work environment.
- Great paint saving.



We reserve the right to modify / change the above data / specifications without prior notice.



www.intechfinishing.com

Statfield Equipments Pvt. Ltd.

Tel.: (020) 22922350-3 Fax : (020) 66524695 / 22922252

E-mail : marketing@statfildequipments.com

Mailing Address : 9-10, Laxman Villa, Near Jog Hospital, Paud Road, Pune 411 038 (India) Fax : (020) 25432349

H. O. : 9822496103



Branches : Delhi : 09811009400/ (011) 25894732

Mumbai : 09820104061/ (022) 25965141

Ludhiana : 09814101041

Pune : 9850055812

Mooradabad : 09837300561

Bangalore : 09372402357 / (080) 23381273