Ji'nan ShengTai Painting Equipment Co.,Ltd.
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ST-LPF 400 Intermediate Booth — Technical Parameters	
Applicable Standards (Operative Norm)	Complies with the Transportation Industry Standard *"Automotive Spray and Baking Booth"* (JT/T 324-2022). If local environmental impact assessment (EIA) requirements are stricter than national standards, local EIA standards shall apply.
Outer diameter size(L×W×H)	L:7050×W:4000×H:3000
Inner diameter (L×W×H)	L:6900×W:3900×H:2600
Air volume	⩾12000m³/h
Load wind speed	⩾0.2m/s
Air changes	⩾180 times/h
Lighting Lux	⩾800Lux
Air purification efficiency	(EN779)98%
Noise	⩽75dB（within the working area）
Total power	≈11kW
Gate system	The internal frame of the door structure is fabricated from reinforced galvanized steel plates, bent and welded for high strength and structural stability. The exterior is laminated with color-coated steel panels, ensuring both durability and an attractive appearance. The roll-up door curtain is made of flame-retardant PVC material

	with a thickness of 0.6 mm. Sealing brush strips are installed in the grooves on both sides of the door frame. The main gate is an electrically operated PVC flexible door. Color: White—Transparent—White (customizable), allowing clear visibility inside the booth.
Work Gate (W×H)	Size: 650 × 1800 mm Bent steel plate frame with sealed edges and internal reinforcement ribs Tempered glass viewing window for safe operation
Building System	Wall panels are made of 50 mm thick double–sided coated rock wool panels, with 0.4 mm color–coated steel sheets on both sides, color: off–white/gray Roof panels are formed from 0.6 mm galvanized steel sheets
Top System	Double–layer main beams assembled with bent galvanized steel plates and screws for high structural stability Second–layer reinforcement ribs made of bent, welded, and powder–coated galvanized steel, ensuring strength and aesthetics Ceiling support mesh made of welded profiles with powder

	coating; plug–in filter cotton design allows easy replacement and a neat appearance
Lighting System	Four groups of ceiling lights installed on both sides of the top Each group equipped with eight 24W lamps Total: 32 × 24W lamps
Air supply System	Equipped with one 4 kW Jiangsu Hengkang / Shuangju fan Total air volume: 12,500 m^3/h
Air purification System	Two–stage filtration system consisting of primary filtration (air inlet) and sub–high–efficiency filtration (ceiling filtration) Primary filtration uses dedicated inlet filter cotton, effectively capturing dust particles larger than 15 μm; installed at the air inlet cabinet with an access door for easy replacement Ceiling sub–high–efficiency filtration uses YW–600G high–grade filter cotton, achieving air purification efficiency above 98% and ensuring indoor dust particle diameter below 5 μm Main technical parameters: Initial resistance: 30 Pa Final resistance: 450 Pa Average capture efficiency: 98% Dust holding capacity: 450 g/m^2

	Thickness: 20 mm Effective for capturing particles larger than 5 μm
Exhaust environmental protection system	Equipped with one 5.5 kW Jiangsu Hengkang / Shuangju fan Total air volume: 15,000 m³/h Pressure: 810 Pa Rotational speed: 900 r/min Includes one layer of fiberglass filter cotton Fiberglass Filter Cotton Specifications: Initial resistance: 15 Pa Final resistance: 250 Pa Dust holding capacity: 3500 g/m² Temperature resistance: up to 150°C
Cabinet configuration	Cabinet frame constructed from 50 × 50 mm square steel tubes, welded for strength Enclosed with galvanized steel panels Entire cabinet surface treated with powder coating
Wind duct configuration	Standard configuration includes: One straight air duct section (600 × 600 mm, 4 meters per section) One 90° elbow

Electronic control system	Electrical control system integrated inside the control cabinet Electrical components use Delixi brand products Equipped with leakage protection, emergency stop, fan switch, lighting switch, and indicator lights Includes: Two compressed air outlets Two 220V explosion–proof sockets Main power switch, lighting switch, fan switch, leakage protection, and emergency stop functions
Power supply configuration	Recommended cable: No. 10 three–phase four–core cable Voltage: 380 V Frequency: 50 Hz
Other configurations	Floor–mounted installation

Equipment Features

Did you know the filtration system inside a furniture baking booth is highly advanced? It can maintain air cleanliness above 98%, ensuring a superior paint finish every time.

The heating system is equally impressive, using carbon–fiber infrared heating tubes or vertical/hanging electric hot–air circulation fans to deliver stable, efficient, and precisely controlled temperatures throughout the baking process.

Please provide detailed information so that we can provide you with a more accurate solution:

1.What are the Maxminum and Minimum dimensions of your workpieces (L × W × H)?

2.What is the maximum weight of each workpiece? If available, please also provide product photos.

3.How many workpieces do you plan to coat per day (based on 8 or 16 working hours) or per month?

4.Which heating source do you prefer, such as electric power, diesel, fuel oil, or natural gas?

5.What are the dimensions of your workshop (L × W × H)? If possible, could you share a layout or drawing of the facility?

6.Prior to coating, do you require spray pre–treatment to prepare and clean the product surface?

7.What voltage and frequency standards are used in your country?

Please also share your WhatsApp or another instant messaging contact so we can communicate more efficiently.

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