Ji'nan ShengTai Painting Equipment Co.,Ltd.
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Automotive Spray & Curing Booth ST-LPF780

ST-LPF780 European Spray Booth & Curing Oven Technical Specifications	
Operative norm	Complies with the Transportation Industry Standard *"Automotive Spray Booth and Baking Oven"* (JT/T 324-2022). If local environmental assessment requirements are stricter than national standards, local regulations shall prevail.
Outer diameter size(L*W*H)	L:7000×W:4000×H:3500
Inner diameter (L*W*H)	L:6900×W:3900×H:2650
Air volume	⩾30000m³/h
Load wind speed	⩾0.44m/s
Air changes	⩾300 times/h
Lighting Lux	⩾1000Lux
Paint baking temperature	⩾80℃
Air purification efficiency	(EN779)98%
Noise	⩽85dB（within the working area）
Total power	Electric heating spray booth: approx. 53 kW Diesel heating spray booth: approx. 24 kW Natural gas heating spray booth: approx. 24 kW
Gate system	The internal frame of the door is fabricated from reinforced galvanized steel plates, bent and welded for a robust and

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	rational structure. The exterior is laminated with color-coated steel panels, ensuring both strength and an attractive appearance. Door type: Four-panel metal doors Door size: 800 × 2500 mm × 4 panels Color: Light gray (optional colors available) Observation window: Tempered glass
Work Gate (W×H)	Size: 800 × 2000 mm Structure: Bent steel plate frame with sealed edges and internal reinforcing ribs Observation window: Tempered glass to ensure safe operation
Building System	Wall panels: 50 mm thick handmade purified rock wool panels, with 0.5 mm color-coated steel sheets on both sides Ceiling panels: 0.8 mm galvanized steel plates, bent and formed
Top System	Double-layer European-style main beams assembled with bent galvanized steel plates and screws, providing high structural stability Secondary beams made of bent, welded, galvanized steel plates with powder coating, offering strength and aesthetics Ceiling support mesh constructed from bent galvanized plates

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	with a welded 15 × 15 mm galvanized pipe frame, powder-coated finish
Base system	Base height: 300 mm Enclosure panels: 1.5 mm galvanized steel plates, bent and welded Steel grating: Five rows of 30 × 5 mm flat steel grating with galvanized surface treatment, load capacity 800 kg per wheel Base beams: 1.8 mm galvanized steel plates with high load-bearing strength
Lighting System	Six sets of ceiling lights installed on both sides of the roof Each set includes eight 16 W lamps Lamp housings with tempered glass covers
Air supply System	One 11 kW Jiangsu-manufactured DDF-type European large-turbine single-inlet fan (with variable frequency control) Total air volume: 30,000 m^3/h
Air purification System	A two-stage filtration system is adopted, combining primary filtration (air inlet filtration) and sub-high-efficiency filtration (ceiling filtration). • Primary filtration: Uses dedicated inlet filter cotton, capable of effectively capturing dust particles larger than 15 μm. Installed at the air

	inlet of the generator cabinet and equipped with an access door for easy replacement. • Ceiling sub-high-efficiency filtration: Uses CC-800XU high-grade filter media with high filtration accuracy, achieving an air purification efficiency above 98%. Indoor dust particle size is controlled below 5 μm. Main technical parameters: • Initial resistance: 30 Pa • Final resistance: 450 Pa • Average capture efficiency: 98% • Dust holding capacity: 450 g/m² • Thickness: 20 mm • Effective capture of particles larger than 5 μm
Exhaust environmental protection system	One 11 kW Jiangsu-manufactured DDF-type European large-turbine single-inlet fan (with variable frequency control) Total air volume: 30,000 m³/h Static pressure: 600 Pa Fan speed: 960 r/min Equipped with one layer of fiberglass filter media: Fiberglass filter cotton specifications: Initial resistance: 15 Pa

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	Final resistance: 250 Pa Dust holding capacity: 3500 g/m² Heat resistance: up to 150°C
Heating system	Internal Heating • 10 sets of graphene infrared baking lamps • Configuration: 8 sets on both sides, 2 sets at the rear (total 10 sets) • Power per set: 3 kW • Total power: 30 kW • Zoned control enables targeted local baking, improving energy efficiency and environmental performance
	External Centralized Heating (Diesel) One imported Riello G20 diesel burner Heat exchanger made of 1.2 mm thick stainless steel Double-layer galvanized steel air inlet box filled with rock wool insulation
	External Centralized Heating (Natural Gas) One imported Riello FS20 natural gas burner Heat exchanger made of 1.2 mm thick stainless steel Double-layer galvanized steel air inlet box filled with rock wool

	insulation
Cabinet configuration	Cabinets fabricated from 50 × 50 mm galvanized square steel tubes Air supply cabinet size: 2000 × 1200 × 3200 mm (L × W × H) Exhaust cabinet size: 1500 × 1200 × 1600 mm (L × W × H)
Wind duct configuration	Standard configuration includes: Three straight air ducts (600 × 600 mm, each 910 mm long) One 90° elbow
Electronic control system	Includes functions such as spray mode, baking mode timing, power switch, lighting switch, heating switches (five circuits), fan switch (star—delta starting), fault indicator lights, leakage protection, emergency stop switch, and more.
Power supply configuration	Recommended cable: 35 mm² three-phase four-core cable Voltage: 380 V Frequency: 50 Hz
Other configurations	Installation can be underground or above ground. For above-ground installation, either an external or internal ramp can be selected.

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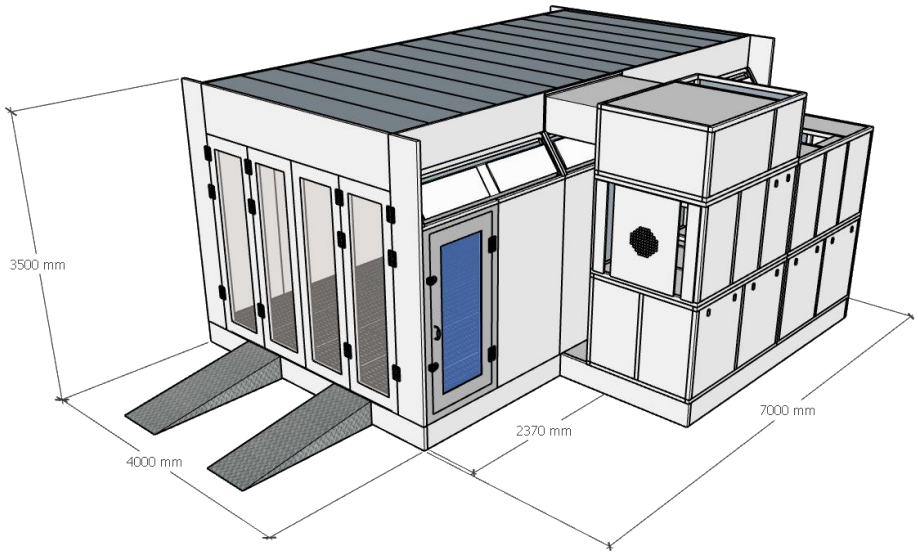
	External ramp size: 2000 × 750 mm (L × W), two sets.

Application areas of furniture paint booths

1. Furniture Manufacturing Industry: Used for painting and drying solid wood furniture, panel furniture, and custom furniture.
2. Wood Products Processing Industry: Suitable for surface coating of wood products such as cabinets, wardrobes, wooden doors, and decorative panels.
3. Custom Furniture Production Industry: Meets the painting needs of multi-specification, small-batch, and personalized furniture.
4. Furniture Repair and Refurbishment Industry: Used for repairing, touching up, and refurbishing old furniture.
5. Metal and Composite Furniture Industry: Suitable for painting and drying metal-framed furniture and wood-metal combination furniture.
6. Furniture Painting Production Line Support: Can be used as a standalone unit or a drying unit in an automated painting line.



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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