Ji'nan ShengTai Painting Equipment Co.,Ltd.
Address: East of the intersection of Dongwaihuan Road and Wenhua Road in Wenden Village, Diaozhen Street, Zhangqiu District, Jinan City,Shandong Province
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Automotive Spray & Curing Booth ST-LPF680

ST-LPF680 Spray Booth & Curing Oven Technical Specifications	
Applicable Standard (Operative Norm)	Complies with the Transportation Industry Standard *"Automotive Spray & Baking Booth"* (JT/T 324—2022). If local environmental impact assessment (EIA) requirements are more stringent than national standards, local EIA standards shall prevail.
Outer diameter size(L×W×H)	L:7000×W:4000×H:3300
Inner diameter (L×W×H)	L:6900×W:3900×H:2600
Air volume	⩾26000m³/h
Load wind speed	⩾0.25m/s
Air changes	⩾300 times/h
Lighting Lux	⩾1000Lux
Paint baking temperature	⩾80℃
Air purification efficiency	(EN779)98%
Noise	⩽75dB（within working area）
Total power	Electric heating spray & baking booth: approx. 53 kW

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	Diesel heating spray & baking booth: approx. 24 kW Natural gas heating spray & baking booth: approx. 24 kW
Gate system	The internal frame of the door is fabricated from reinforced galvanized steel sheets formed by bending and welding, providing a strong and well-balanced structure. The exterior is laminated with color-coated steel panels, ensuring both strength and an attractive appearance. The main entrance consists of four metal doors. Door size: 800 × 2500 mm × 4 panels Color: off-white (customizable) Equipped with tempered glass observation windows
Work Gate (W×H)	Size: 650 × 1800 mm Steel plate bent edge frame with internal reinforcement ribs Tempered glass observation window to ensure operational safety
Building System	Wall panels are made of 50 mm thick double-sided coated rock wool panels, with 0.476 mm color-coated steel sheets on both sides, color: off-white. The roof panels are fabricated from 0.6 mm galvanized steel sheets, bent and formed.
Top System	Ceiling constructed with double-layer main beams assembled using bent galvanized steel plates and bolts, ensuring structural stability Secondary reinforcement beams made of bent, welded, galvanized steel plates with powder coating, providing durability and aesthetics

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	Ceiling support mesh fabricated from welded profiles with powder coating; plug-in filter cotton design allows easy filter replacement and a neat, rational structure
Base system	Base height: 300 mm Skirting panels made of 1.0 mm galvanized steel plates (1.2 mm at the front threshold), bent and welded Two rows of 30 × 5 mm flat steel gratings, surface galvanized, load capacity: 800 kg per wheel Three rows of 2.3 mm thick galvanized chequered steel plates with reinforced ribs welded underneath for enhanced load-bearing capacity Bottom beams made of 1.8 mm galvanized steel plates, providing high structural strength
Lighting System	Four sets of corner lights installed on both sides of the ceiling, each set equipped with eight 24 W lamps Six sets of mid-level side lights, each set equipped with four 24 W lamps Tempered glass lamp covers
Air supply System	Equipped with one 11 kW Jiangsu YDW double-inlet centrifugal fan Total air volume: 26,000 m^3/h
Air purification System	Two-stage filtration system consisting of primary filtration (air inlet filtration) and sub-high-efficiency filtration (ceiling filtration). • Primary filtration:

	Special air inlet filter cotton capable of capturing dust particles larger than 15 μm, installed at the air intake of the generator cabinet, with an access door for easy replacement. • Ceiling sub-high-efficiency filtration: CC-800XU high-grade filter cotton with filtration efficiency above 98%, 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/m² • Thickness: 20 mm • Effectively captures particles larger than 5 μm
Exhaust environmental protection system	Equipped with one 11 kW Jiangsu YDW double-inlet centrifugal fan Total air volume: 26,000 m³/h Pressure: 815 Pa Speed: 900 r/min Includes one layer of fiberglass filter media: Initial resistance: 15 Pa Final resistance: 250 Pa

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	Dust holding capacity: 3500 g/m² Temperature resistance: up to 150°C
Heating system	Internal Heating • Ten sets of triple-head quantum heating units • Eight sets installed on both sides and two sets at the rear • Each heating lamp: 3 kW • Total power: 30 kW • Five-zone independent control for targeted heating, energy efficiency, and environmental friendliness
	External Centralized Heating (Diesel) One imported Riello G20 diesel burner Heat exchanger made of 1.2 mm thick stainless steel Air inlet upper box constructed with double-layer galvanized steel plates 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 Air inlet upper box constructed with double-layer galvanized steel plates filled with rock wool insulation
Cabinet	Cabinet frame fabricated from 50 × 50 mm galvanized square tubes

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configuration	Air supply cabinet size: 2050 × 1200 × 3000 mm (L × W × H) Exhaust cabinet size: 1400 × 1200 × 1600 mm (L × W × H)
Wind duct configuration	Standard configuration includes: Three straight ducts: 600 × 600 mm (each 910 mm long) One 90° elbow
Electronic control system	Microcomputer-based control system with the following functions: Spray mode and baking mode selection Spray and baking timers Main power switch Lighting switch Heating switches (five circuits) Fan switch (star—delta starting) Fault indicator lights Leakage protection Emergency stop function
Power supply configuration	Recommended cable: No. 35 three-phase four-core cable Voltage: 380 V Frequency: 50 Hz
Other configurations	Installation can be either pit-mounted or floor-mounted. For floor-mounted installation, external or internal ramps are optional.

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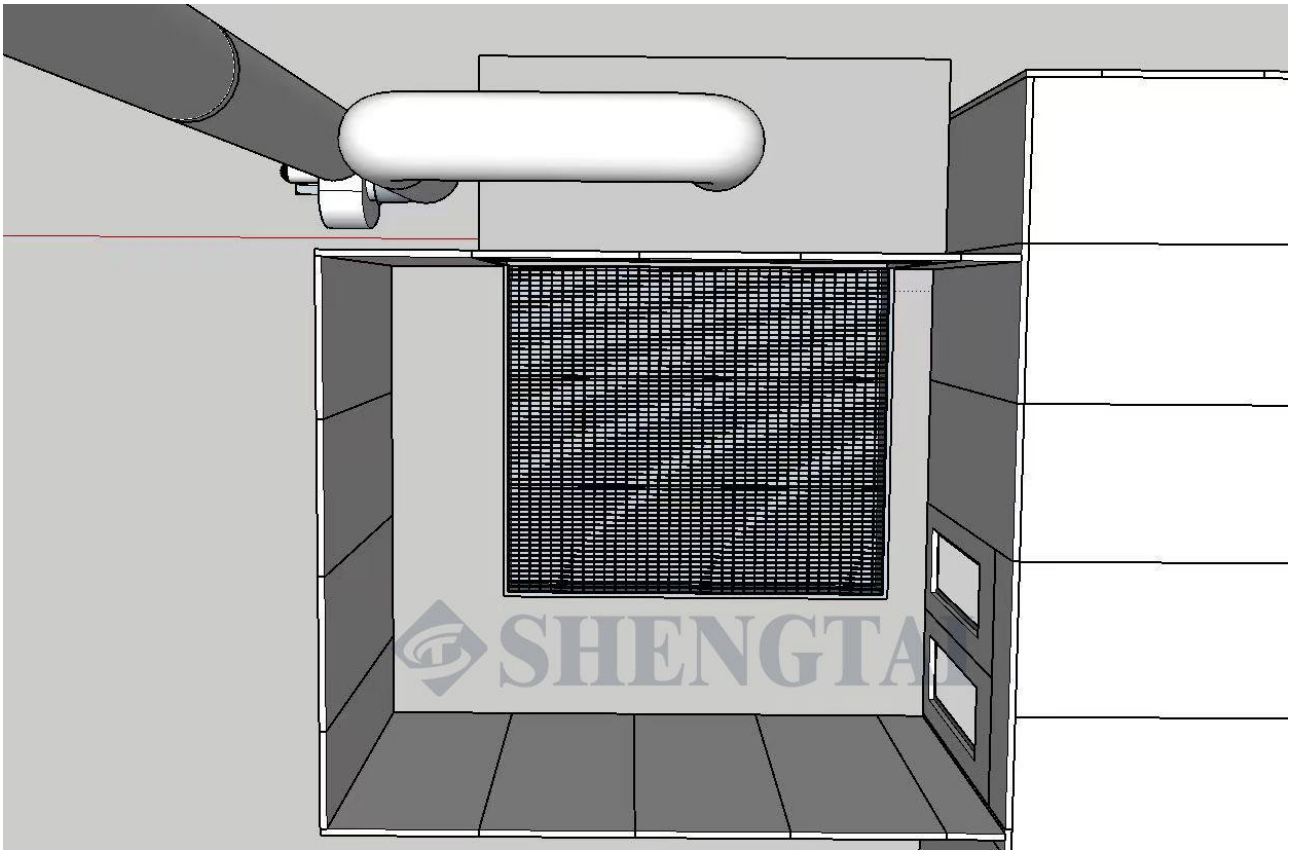
	External ramp size: 2000 × 750 mm (L × W), two sets.



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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