

"Zonda" SERIES SPRAY BOOTHS

Zhongda series spraybooths are highly economical and reliable, provide spraying, accelerated drying or baking in one clean, fast operation. The Zhongda airflow system provides a scrupulously clean environment within the booth. Operators may therefore work with complete comfort and confidence, using virtually any type of today's paint materials.



Features

Booth Cabin:

Double skinned walls are solid interlock panel construction with insulations, pre-coated finish and prevented with plastic film.

Doors:

Entrance Doors:

Insulated, rubber gasket sealed doors with positive internal lock bar in threshold base and solid header base. Standard tri-fold or bi-fold.

Personnel Door:

Equipped with safety glass observation window, rubber sealed.

Floor arrangement:

Type 1:

Raised grids floor with paint-stop filters, 300mm high metal basement with outside ramps.

Type 2:

Raised grids floor with paint-stop filters, 300mm high metal basement with inside ramps.

Type 3:

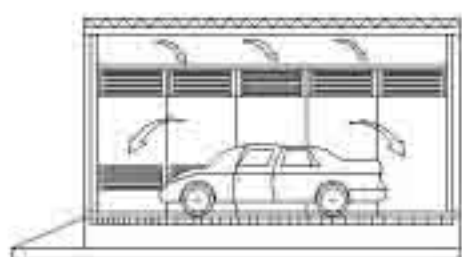
Raised grids floor with paint-stop filters, 300mm high metal basement, base-down installation, no ramps necessary.

Type 4:

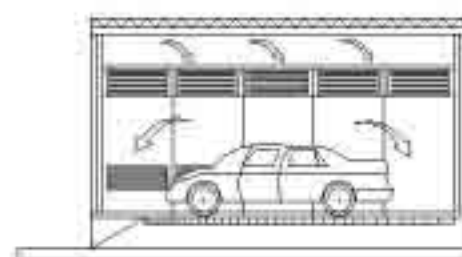
Two rows of grids floor with paint-stop filters, excavated pit basement, no ramps necessary.

Type 5:

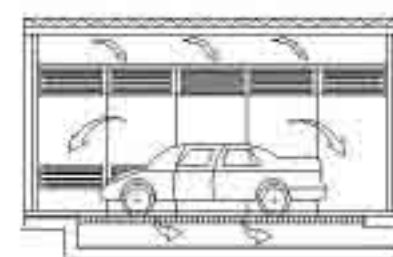
Solid concrete floor, extraction from wall panels. No basement, no ramps necessary.(C750 model)



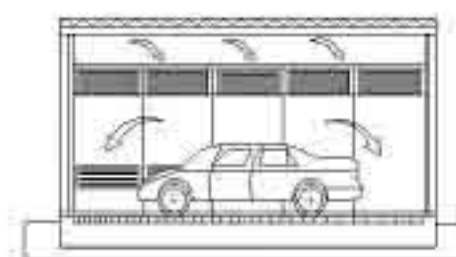
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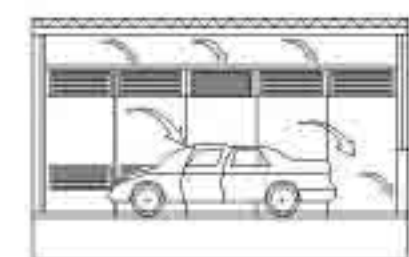
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Lighting

Lighting units each with four 36W or 30W tubes inclined in ceiling or in wall panels for shadow free illumination. (more side wall lights optional)



Booth Filtration

- Prefilter--located on supply end of air make-up unit, reduce contamination of ceiling filters.
- Main ceiling filter--European style CC600G fine filters provides maximum air movement. 99% efficiency on 10 micron particles.
- Floor filter--glass-fibre paint-stop filters, located under the gratings,
- Extract filter--glass-fibre paint stop filters as post-filtration in extraction cabinet.

Intake

- Model I: High efficiency double-intake centrifugal fan intake, 3 phase motor, belt drive, vibration free.
- Model II: Backward inclined turbo fan intake, which is assembled on to motor drive shaft directly, thus providing high efficiency, energy savings and a dramatic reduction in overall operating costs.
- Filtering of incoming air as well as recycled air.



Extract

- Model I: High efficiency double-intake centrifugal fan intake, 3 phase motor, belt drive, vibration free.
- Model II: Backward inclined turbo fan extract, which is assembled on to motor drive shaft directly, thus providing high efficiency, energy savings and a dramatic reduction in overall operating costs.
- Floor filters and post-filtration before extract fan minimize the pollution of atmosphere.
- Sparkproof construction.
- Pre-assembled and tested.
- Optional active-carbon filter.



Heating

- High efficiency stainless indirect heat exchanger can be fired by either oil, natural gas or propane gas.
- 85-90% of cabin air is recycled during bake cycle through pneumatic By-Pass damper, heat rise up to 80°C.
- Temperature is controlled by a Variable Electronic Controller, which digitally displays both pre-set and actual temperatures.
- Indirect Heat Burner: Italian Riello Burner, heat capacity from 180000 to 280000Kcal/h. Gas burner as optional.
- Indirect fired heating system on request.



Quick Curing System: (optional)

Quick curing system (QCS) with multi directional nozzles introduce filtered warm air accurately at the painted surface greatly increase the process efficiency of flash-off and curing for waterborne paint. Process time reduced around 35%.



Electrical Control System

Designed for easy operation and reliability. All components are recognized, listed or certified by CCC, UL, ETL, CSA or CE.

- Digital temperature readout.
- Spray and bake temperature settings.
- Bake timer.
- "Dwyer" pressure gauge accurately monitor cabin pressure, motorized or manual damper make the pressure adjustable.
- Hour meter.
- Over temperature audible alarm.
- Operation indicator lights.
- Emergency stop switch.



Luxury Control Panel (optional)

Luxury cabinet with PLC and touch screen for intelligent control.

Variable Frequency Drives (VFD) control System (optional)

- Automatic pressure balancing instead of intake & extract air dampers.
- Prevent power spikes during motor start-up.
- Adjust fan speed to provide optimum airflow velocity.
- Greatly reduce running cost.



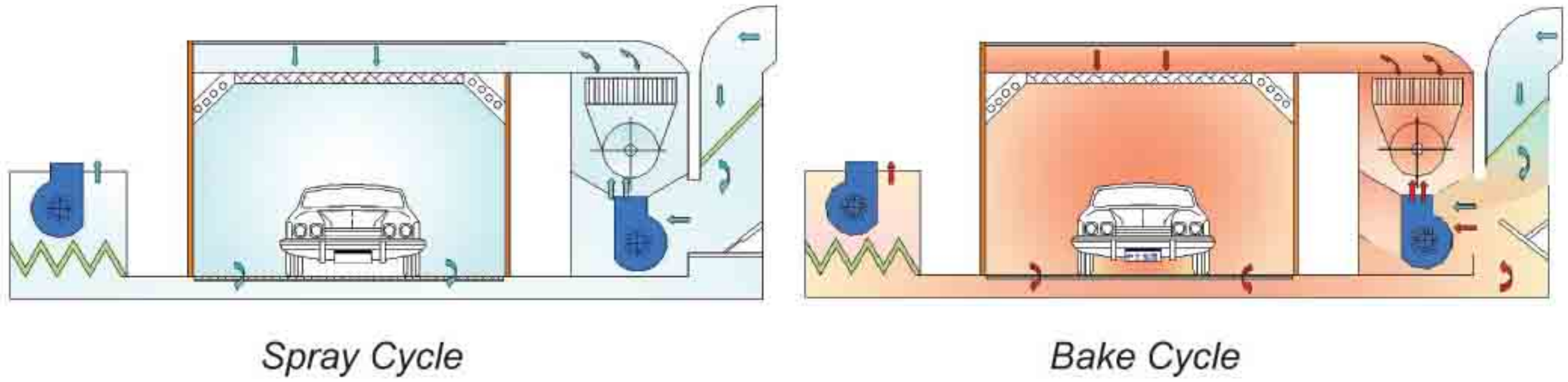
Spray Cycle:

100% outside air is drawn through pre-filters, heated to preset temperature, passed through ceiling filters into cabin.

Bake Cycle:

Fully automatic, including purge and cool-down cycle. Air intake fan draws 10% fresh air into cabin to reduce solvent concentration during bake cycle. Lights turn off automatically during bake mode.

Model "I" Air Flow Demo



Model "II" Air Flow Demo

