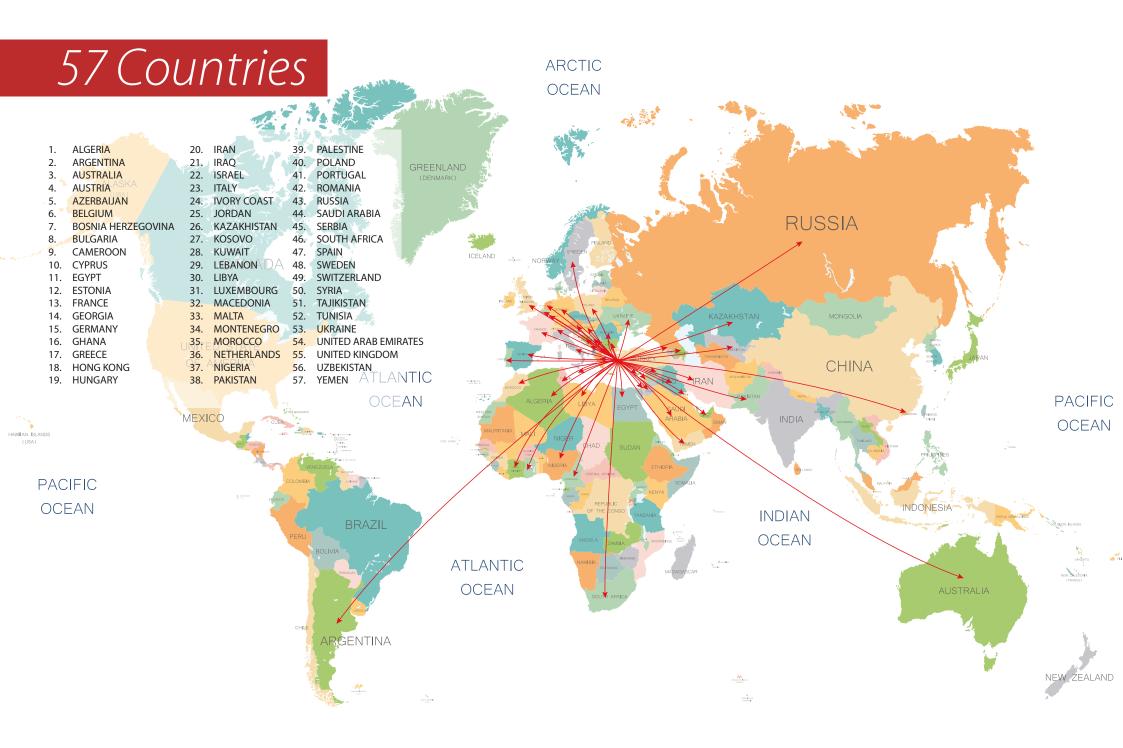


RELIABLE • ECONOMICAL • INNOVATIVE



CONTENTS



Company

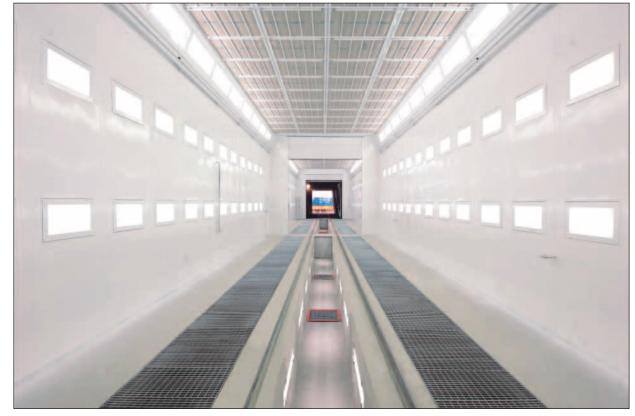
Quality Assurance

Spray Booths

- ✓ Why are spray booths used?
- ✓ Who needs a spray booth?
- ✓ Working Principle

Products

- ✓ Preparation Stations
- ✓ Automobile Spray Booths
- ✓ Minibus Spray Booths
- ✓ Commercial Vehicle Spray Booths
- ✓ Bus and Truck Spray Booth
- Custom Spray Booths



Wagon Painting and Drying Booth









İlke Industrial Painting Systems and Automation INC., Turkey's **first** and **biggest** professional painting and drying booth manufacturer, was established in İzmir, Turkey, in 1989.

Current production is carried out in **9.000** m² enclosed area, which is located in **15.000** m² open land, continuing its production by using state of art technology CNC machinery systems and equipment for more than **27 years**.

ILKE's thousands of products has been established nearly everywhere in Turkey and more than 50 countries worldwide. By raising its exportation with the trust of being the first and the biggest company of its market, presently the company is exporting %50 of its production worldwide.

Production **COMPANY**



- We know the codes of international manufacturing standards very well, meeting the whole expectations.
- Reducing production costs with automation is one of the fundamental principles of success in ILKE.
- At ILKE, the entire sheet metal working is in-house and the scrap is minimized by using different metal sheet rolls for all necessary widths and thicknesses.



ILKE's Machine Park has a wide variety of automated metal sheet processing machines.

ILKE does not only have CNC Punches, CNC Press Breaks, Guillotines, Welding Machines, Presses but also, roll forms and automated Mechanic Decoilers for Spray Booths and Laser Plazma for Industrial Painting Lines

Today, ILKE, with it's daily processing capacity of 20 tonnes of metal sheet, has an annual capacity of 1200 painting booths. And with new investments and continuously improved production system, the capacity keeps growing.

ILKE spray booths are designed completely in high-grade steel.



QUALITY ASSURANCE

- İLKE, proving the quality of it's products by having national and international quality certifications, provides perfect satisfaction by offering unique solutions to different consumer expectations.
- The products are manufactured to meet the CE markup.
- ILKE believes that Quality can only be reached by continuous improvement of the process.

"We employed SAP Business One Enterprice Resource Planning (ERP) System to effectively manage all processes in the Company."

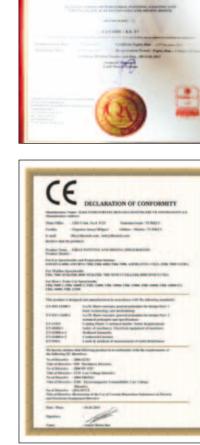




Friendl



Accreditation













Why are spray booths used?

There are three critical reasons to use a spray booth.

- Reason 1: To supply a clear and no-dust environment conditioned specially for a perfect painting process.
- Reason 2: To operate in a controlled, internally cleanaired environment by removing the applied chemicals, which are harmful for health.
- Reason 3: To remove dangerous spray excess and volatiles by filtering them from surroundings and to prevent any kind of fire or explosion.



ILKE stands for **innovation**, top quality, intelligent technology and reliable service...







Briefly, if you want to have an excellent painting application with higher quality, lower cost in a shorter time you need a painting and drying spray booth.



Who needs a spray booth?

✓ Are you waiting for hours for the paint to dry?

- ✓ Is your paint cost too much?
- ✓ Are your surfaces uneven after paint application?
- ✓ Is customer paint satisfaction and service quality important for you?
- ✓ Do you suffer from low productivity rates?
- Is there a deep smell of paint in your working environment?
- ✓ Is the health of your employees important for you?
- Don't you want to have a contribution to prevent air pollution?



Working Principle SPRAY BOOTHS



The best light conditions

Definition

In the painting and drying booth, the surface is painted with a spray gun, afterwards flash off , drying and cooling phases are started. The air passes through several filters. The paint particles are seperated by "Filtered Paint Stop Filter" from the air.

The Spray Booth is equipped with heating, fans and motor units in order to achieve the desired temperature and to ensure the multiple air changes in the painting and drying booth.

Purpose

Purpose of Spray Booths provide a clean environment with suggested temperature for painting and drying by paint companies and provide a healthy environment to protect operators from solvent and similar harmful materials with a suggested air velocity which is determined by the paint producers according to the paint type.



Our one of references.

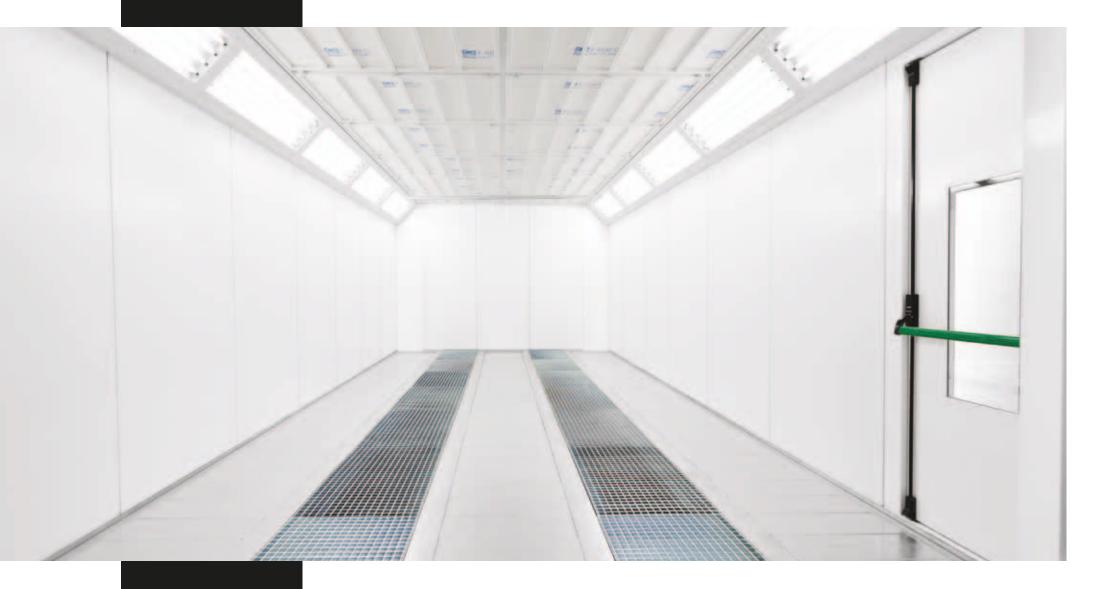


Control Unit Technology

In ILKE Spray Booths, you will find a user friendly touchscreen, which will provide complete control of the spray booth, began to be used as a standard within products.

After user finishes the painting, user needs to press automatic start button and then whole process continues automatically according to the previously set temperature and time settings with the paint supervisor's password.







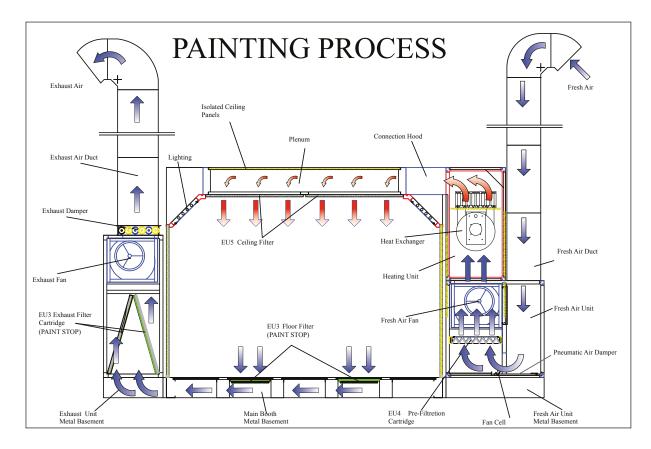
Working Principle SPRAY BOOTHS

Painting Phase

At the painting moment, the fresh air which is shown with the blue arrows is absorbed from the fresh air absorption duct, meanwhile the fresh air unit damper is closed. The absorbed fresh air passes through the EU-4 pre-filter. The fresh air, will be heated by the heat exchanger and directed to plenum by fresh air fan. The heated air fills the plenum and the pressured air passes through the EU-5 ceiling filter and enters the cabin from the top. By the means of exhaust fan, the air mixed with the excess paint is absorbed from floor and passes through the EU-3 Paint-Stop filters, then transferred to exhaust unit. Afterwards the air is filtered again in the exhaust unit, and it will be thrown out through the exhaust duct.

Flash-Off Phase

After the painting, flash off phase with fresh air is started for removing volatiles before the drying phase to improve the paint quality.



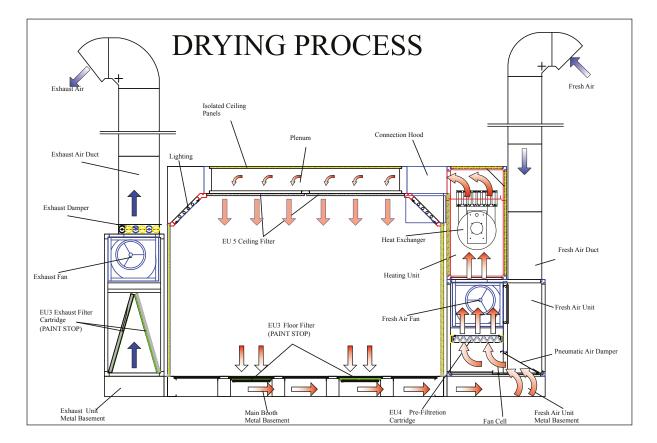


Drying Phase

During the drying phase, exhaust fan does not work, only the fresh air fan works in order to recirculate the hot air inside the booth and to throw out solvent by allowing the absorption of %10 fresh air (shown with blue arrows) from atmosphere. During drying phase, the fresh air damper is opened so that fresh air fan absorbs the heated air through the floor filters, takes %10 fresh air and re-directs the warm air to exchanger. The heated air by exchanger for the second time, will be sent to plenum and then from plenum to cabin. The solvent air which might occur in the cabin will be thrown out from the opened exhaust unit because of plus pressure inside the booth.

Cooling Phase

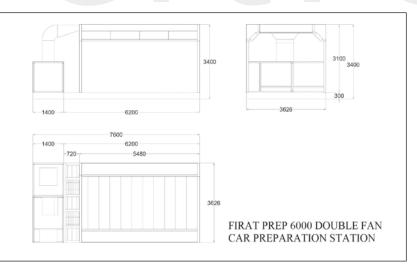
After drying a cooling phase is started.

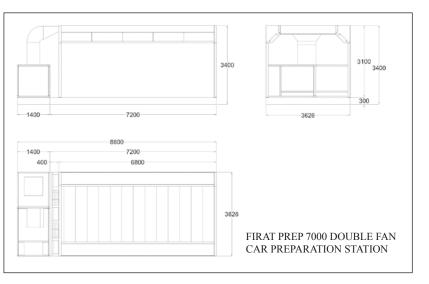




The Preparation Station **PRODUCTS**

PREPARATION STATION		TECHNICAL DETAILS	TECHNICAL DETAILS	
		PREP 6000	PREP 7000	
Internal Dimensions		6200(L) x 3626(W) x 2770(H) mm	7200(L) x 3626(W) x 2770(H) mm	
External Dimensions		7600(L) x 3626(W) x 3400(H) mm	8600(L) x 3626(W) x 3400(H) mm	
External Dimensions		(Units are included - On back)	(Units are included - On back)	
Entrance Door		NO	NO	
Quantity of Entrance d	oor leaf	NO	NO	
Service Door		NO	NO	
Lighting	Top Lighting	24 X 36 W	30 X 36 W	
	Lower Lighting	NO	NO	
	Fan Motors	7,5 HP (5,5 KW)	7,5 HP (5,5 KW)	
	Air Flow	18.000 m³/h	18.000 m³/h	
Fresh Air and Heating	Burner	NO	NO	
Units	Exchanger	NO	NO	
	Max.Drying Temperature	-	-	
Exhaust Unit	Fan Motors	10 HP (7,5 KW)	10 HP (7,5 KW)	
Exhaust Unit	Air Flow	24.000 m³/h	24.000 m³/h	
Floor Filter		EU3	EU3	
Ceiling Filter		EU5	EU5	
Grates		2 Lines Grates, 3 Lines Closed Plates	2 Lines Grates, 3 Lines Closed Plates	
Max.Weight		500 kg/ tire	500 kg/ tire	
Metal Basement		300mm	300mm	
Plenum		300mm	300mm	
Max.Electric Power		15 KW	15 KW	
Panel Electric	Power	380 volt	380 volt	
	Command	24 volt	24 volt	
Chimneys		Belong to the customer!!!	Belong to the customer!!!	





PRODUCTS *Preparation Stations*

FIRAT



Preparation Stations

For assuring quality, the preparation must be done properly. FIRAT can provide the environment you need for the best surface quality.

With smartly designed preparation areas you can also repair small damages and paint small pieces of vehicles.

Prep Stations are available in full down draft or semi-down draft airflow configuration, with singlefan or double-fan designs.



Automobile Spray Booths **PRODUCTS**

Automobile Spray Booth White





PRODUCTS Automobile Spray Booths





The SBK Model is our economical-class product

Automobile Spray Booth

Your health is worthy for us, we highly esteem your wellbeing. Special air filters for completely purified atmosphere from dust.

With its air recirculation system and intelligent control software, you can benefit higher efficiency rates and easy energy management, which are the key components for reducing operating costs.

FIRAT can provide the ideal temperature for painting and drying with its in-house production stainless-steel heat exchanger.



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The FBK Model is our standart product
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The economical-class product Highly Efficient Spray Booth Decreased Energy Consumption Improved Environmental Health

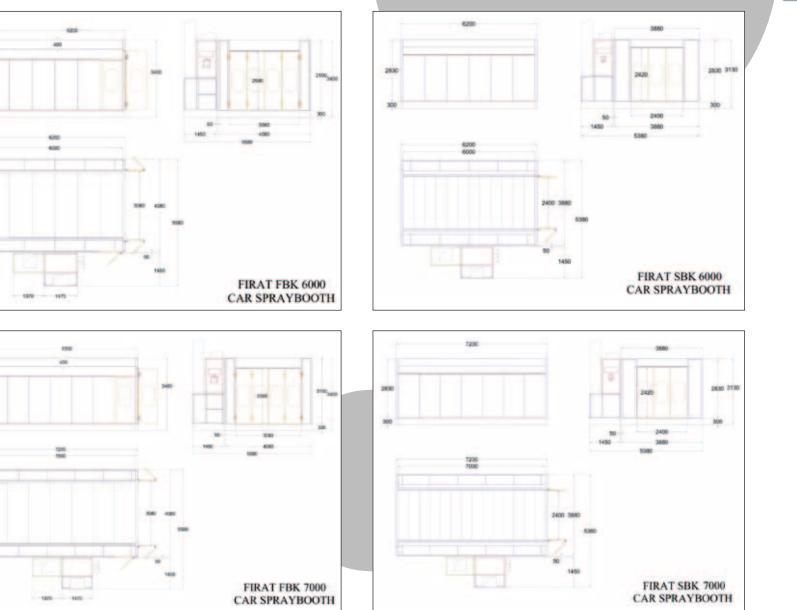
Our one of references



Automobile Spray Booths **PRODUCTS**

PAINTING AND DRYING BOO	TH	Model: SBK 6000 AUTO	Model: SBK 7000 AUTO	Model: FBK 6000 AUTO - 18.000 m ³ /h	Model: FBK 7000 AUTO - 18.000 m ³ /h
Internal Dimensions		6000(L) x 3800(W) x 2500(H) mm	7000(L) x 3800(W) x 2500(H) mm	6000(L) x 4000 (W) x 2650(H) mm	7000(L) x 4000(W) x 2650(H) mm
External Dimensions		6200(L) x 3880(W) x 3130(H) mm	7200(L) x 3880(W) x 3130(H) mm	6200(L) x 4080(W) x 3400(H) mm	7200(L) x 4080(W) x 3400(H) mm
		(Units are excluded)	(Units are excluded)	(Units are excluded)	(Units are excluded)
Entrance Door		2400 (W) x 2420 (H) mm	2400 (W) x 2420 (H) mm	3080 (W) x 2590 (H) mm	3080 (W) x 2590 (H) mm
Quantity of Entrance door leaf		3 PCS	3 PCS	4 PCS	4 PCS
Service Door		NO	NO	800 (W) x 2127 (H)	800 (W) x 2127 (H)
	Top Lighting	24 x 36 W	30 x 36 W	32 x 36 W	40 x 36 W
Lighting	Lower Lighting	NO	No	No	No
	Fan Motors	7,5 HP (5,5 KW)	7,5 HP (5,5 KW)	7,5 HP (5,5 KW)	7,5 HP (5,5 KW)
	Air Flow	18.000 m³/h	18.000 m ³ /h	18.000 m³/h	18.000 m ³ /h
Fresh Air and Heating Units	Burner	150.000 Kcal/h - Diesel burner	150.000 Kcal/h - Diesel burner	150.000 Kcal/h - Diesel burner	150.000 Kcal/h - Diesel Burner
	Exchanger	1200mm	1200mm	1200mm	1200mm
	Max.Drying Temperature	60°C / 80°C	60°C / 80°C	60°C / 80°C	60°C / 80°C
	Fan Motors	5,5 HP (4 KW)	5,5 HP (4 KW)	5,5 HP (4 KW)	5,5 HP (4KW)
Exhaust Unit	Air Flow	18.000 m ³ /h	18.000 m ³ /h	18.000 m ³ /h	18.000 m ³ /h
Floor Filter		EU3	EU3	EU3	EU3
Pre Filter		EU4	EU4	EU4	EU4
Ceiling Filter		EU5	EU5	EU5	EU5
Grates		2 Lines Grates, 3 Lines Closed Plates	2 Lines Grates, 3 Lines Closed Plates	2 Lines Grates, 3 Lines Closed Plates	2 Lines Grates, 3 Lines Closed Plates
Max.Weight		500 kg/ tire	500 kg/Wheel	500 kg/ Wheel	500 kg/Wheel
Metal Basement		300mm	300mm	300mm	300mm
Standard Ramp		2 Pcs	2 Pcs	2 Pcs	2 Pcs
Plenum		300mm	300mm	400mm	400mm
Max.Electric Power		15 KW	15 KW	15 KW	15 KW
Dava al Ela atria Malta ara	Power	380 volt	380 volt	380 volt	380 volt
Panel Electric Voltage	Command	24 volt	24 volt	24 volt	24 volt
Chimneys		Belong to the customer!!!	Belong to the customer!!!	Belong to the customer!!!	Belong to the customer!!!
	Fresh Air Unit	1470 x 1450 x 1160	1470 x 1450 x 1160	1470 x 1450 x 1430	1470 x 1450 x 1430
Unit Dimensions (L x W x H), mm	Exchanger Unit	1470 x 880 x 1670	1470 x 880 x 1670	1470 x 880 x 1670	1470 x 880 x 1670
	Egzaust Unit	1370 x 880 x 2080	1370 x 880 x 2080	1370 x 880 x 2080	1370 x 880 x 2080
NATURAL GAS BURNER		OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
WITHOUT HEATING UNIT (BURNER	& EXCHANGEUR)	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
WITHOUT ONLY BURNER		OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
SIDE LIGHTING (HORIZONTAL)		N/A	N/A	OPTIONAL	OPTIONAL
SIDE LIGHTING (VERTICAL)		N/A	N/A	OPTIONAL	OPTIONAL
FULL GRATED (EXTRACTION FROM	/ ONLY 2 LINE OF GRATES!!!)	N/A	N/A	OPTIONAL	OPTIONAL
ONE SIDE EXTRACTION (WITHOUT	METAL BASEMENT)	N/A	N/A	OPTIONAL	OPTIONAL
DOUBLE SIDE EXTRACTION (WITH	OUT METAL BASEMENT)	N/A	N/A	OPTIONAL	OPTIONAL
INTERIOR SELF RAMP (METAL BASEMENT 300mm)		N/A	N/A	OPTIONAL	OPTIONAL
MOBILE RAMP (METAL BASEMENT	100mm)	N/A	N/A	OPTIONAL	OPTIONAL
WITHOUT METAL BASEMENT (WITH ONE LINE TUNNEL)		OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
INVERTOR		N/A	N/A	OPTIONAL	OPTIONAL
SOFT STARTER		N/A	N/A	OPTIONAL	OPTIONAL
EXIT DOOR		N/A	N/A	OPTIONAL	OPTIONAL

PRODUCTS Automobile Spray Booths

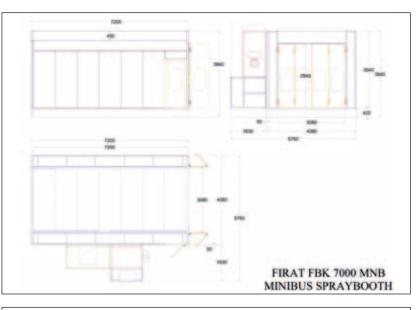


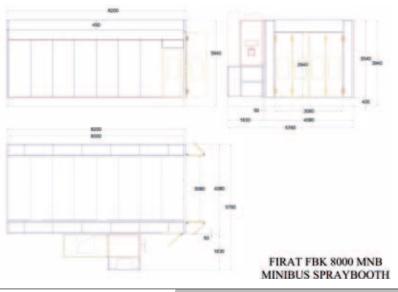




Minibus Spray Booths **PRODUCTS**

MINIBUS SPRAY BOOTH		TECHNICAL DETAILS	TECHNICAL DETAILS	
		FBK 7000 MNB	FBK 8000 MNB	
Internal Dimensions		7000(L) x 4000(W) x 3065(H) mm	8000(L) x 4000(W) x 3065(H) mm	
Fxternal Dimensions		7200(L) x 4080(W) x 3940(H) mm	8200(L) x 4080(W) x 3940(H) mm	
		(Units are excluded)	(Units are excluded)	
Entrance Door		3080 (W) x 2940 (H) mm	3080 (W) x 2940 (H) mm	
Quantity of Entrance d	oor leaf	4 PCS	4 PCS	
Service Door		800 (W) x 2127 (H) mm	800 (W) x 2127 (H) mm	
Lighting	Top Lighting	40 x 36 W	40 x 36 W	
Lighting	Lower Lighting	NO	NO	
	Fan Motors	10 HP (7,5 KW)	10 HP (7,5 KW)	
	Air Flow	24.000 m³/h	24.000 m³/h	
Fresh Air and Heating	Burner	200.000 Kcal/h - Diesel burner	200.000 Kcal/h - Diesel burner	
Units	Exchanger	1200 mm	1200 mm	
	Max.Drying Temperature	60°C / 80°C	60°C/80°C	
Exhaust Unit	Fan Motors	10 HP (7,5 KW)	10 HP (7,5 KW)	
	Air Flow	24.000 m³/h	24.000 m³/h	
Floor Filter		EU3	EU3	
Ceiling Filter		EU5	EU5	
Grates		2 Lines Grates , 3 Lines Closed Plates	2 Lines Grates , 3 Lines Closed Plates	
Max.Weight		650 kg/ tire	650 kg/ tire	
Metal Basement		400mm	400mm	
Plenum		450mm	450mm	
Max.Electric Power		20 KW	20 KW	
Panel Electric	Power	380 volt	380 volt	
	Command	24 volt	24 volt	
Chimneys		Belong to the customer!!!	Belong to the customer!!!	





PRODUCTS Minibus Spray Booths



Minibus Spray Booth

FIRAT provide you improved technology for highly creative solutions with heat resistant equipment and high quality fans with low noise level.

The are two standard model for minibus which are FBK-MNB 7000 and FBK-MNB 8000.

FBK-MNB series spray booth is designed to fulfill the requirements for the refinishing of Minibuses. The design and layout can be tailored to customer requirements in terms of extraction, access doors, unit positions and internal dimensions.





Some of our Minibus Spray Booth References



Commercial Vehicle Spray Booths **PRODUCTS**

Commercial Vehicle Spray Booth

ILKE has enhanced the design of our large size spray booths for Commercial Vehicle.

Our some of Commercial references



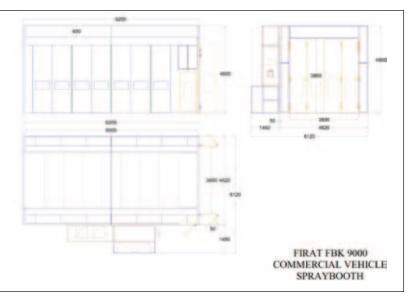


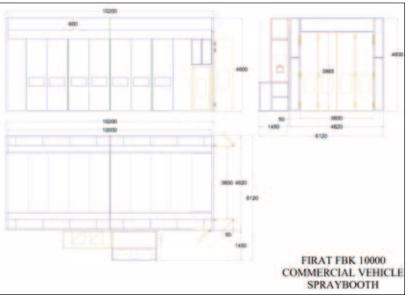
Completely under control

Easy reassembling, portable design without weld...



COMMERCIAL VEHICLE SPRAY BOOTH		TECHNICAL DETAILS	TECHNICAL DETAILS	
		FBK 9000	FBK 10000	
Internal Dimensions		9000(L) x 4500(W) x 3970(H) mm	10.000(L) x 4500(W) x 3970(H) mm	
External Dimensions		9200(L) x 4620(W) x 4600(H) mm	10.200(L) x 4620(W) x 4600(H) mm	
		(Units are excluded)	(Units are excluded)	
Entrance Door		3600 (W) x 3865 (H) mm	3600 (W) x 3865 (H) mm	
Quantity of Entrance door leaf		4 PCS	4 PCS	
Service Door		800 (W) x 2127 (H) mm	800 (W) x 2127 (H) mm	
	Top Lighting	48 X 36 W	56 X 36 W	
Lighting	Lower Lighting	42 X 18 W	48 X 18 W	
	Fan Motors	2 x 7,5 HP (2 x 5,5 KW)	2 x 7,5 HP (2 x 5,5 KW)	
	Air Flow	36.000 m³/h	36.000 m³/h	
Fresh Air and Heating	Burner	250.000 Kcal/h - Diesel burner	250.000 Kcal/h - Diesel burner	
Units	Exchanger	1800 mm	1800 mm	
	Max.Drying Temperature	60°C / 80°C	60°C / 80°C	
Exhaust Unit	Fan Motors	2 x 7,5 HP (2 x 5,5 KW)	2 x 7,5 HP (2 x 5,5 KW)	
	Air Flow	36.000 m³/h	36.000 m³/h	
Floor Filter		EU3	EU3	
Ceiling Filter		EU5	EU5	
Grates		1 Line Grates (Concrete Excavation project will be made.)	1 Line Grates (Concrete Excavation project will be made.)	
Max.Weight		Without Metal Basement (With Tunnel)	Without Metal Basement (With Tunnel)	
Metal Basement		NO	NO	
Plenum		600mm	600mm	
Max.Electric Power		30 KW	30 KW	
Panel Electric	Power	380 volt	380 volt	
	Command	24 volt	24 volt	
Chimneys		Belong to the customer!!!	Belong to the customer!!!	







Bus and Truck Spray Booth

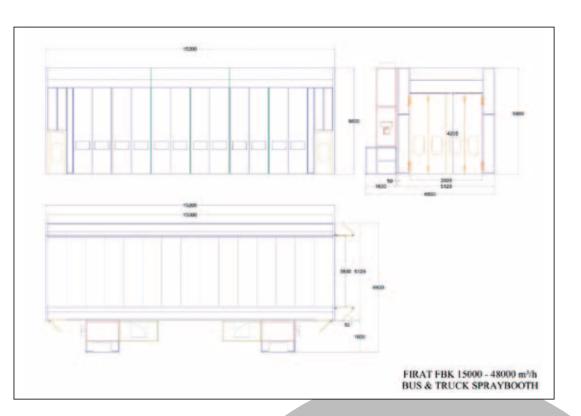
ILKE has enhanced the design of the large size spray booths for Buses.



PRODUCTS Bus and Truck Spray Booth



BUS SPRAY BO	ОТН	TECHNICAL DETAILS	
		FBK 15000	
Internal Dimensions		15.000(L) x 5000(W) x 4970(H) mm	
External Dimensions		15.200(L) x 5120(W) x 5600(H) mm	
		(Units are excluded)	
Entrance Door		3800 (W) x 4205 (H) mm	
Quantity of Entrance d	oor leaf	4 PCS	
Service Door		800 (W) x 2127 (H) mm x 2 Pieces	
Lighting	Top Lighting	88 X 36 W	
Lighting	Lower Lighting	72 X 18 W	
	Fan Motors	2 x 10 HP (7,5 KW)	
	Air Flow	48.000 m ³ /h	
Fresh Air and Heating	Burner	2 x 250.000 Kcal/h - Diesel burner	
Units	Exchanger	1500 mm	
	Max.Drying Temperature	60°C / 80°C	
	Fan Motors	2 x 10 HP (7,5 KW)	
Exhaust Unit	Air Flow	48.000 m³/h	
Floor Filter	'	EU3	
Ceiling Filter		EU5	
Grates		1 Line Grates (Concrete Excavation project will be made.)	
Max.Weight		Without Metal Basement (With Tunnel)	
Metal Basement		NO	
Plenum		600mm	
Max.Electric Power		45 KW	
Panel Flectric	Power	380 volt	
	Command	24 volt	
Chimneys		Belong to the customer!!!	





Custom Spray Booth

ILKE offers one of the most customizable lines of paint booths in the industry. No matter what kind of paint booth you are looking for – automotive, truck, industrial, large equipment..



Tank Painting and Drying Booth

*The images and drawings of Custom Booths are for illustration purposes only, and do not necessarily represent the exact products. Manufacturer has a right to change the product specifications at any time without any prior notice. Please ask for a quotation for exact and up-to-date specifications.



Sandblasting Booth



Trailer Painting and Drying Booth

PRODUCTS Custom Spray Booths





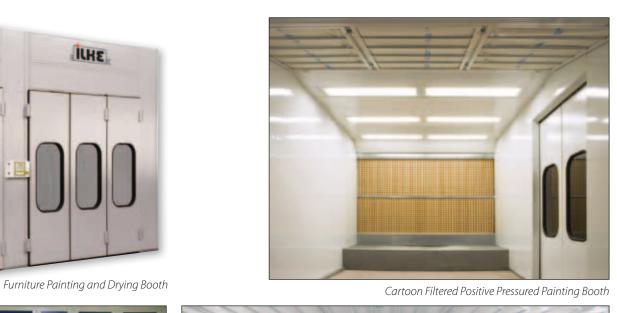
Water Curtained Open Booth

*The images and drawings of Custom Booths are for illustration purposes only, and do not necessarily represent the exact products. Manufacturer has a right to change the product specifications at any time without any prior notice. Please ask for a quotation for exact and up-to-date specifications.

Cartoon Filtered Open Booth



Custom Spray Booths **PRODUCTS**





Furniture Painting and Drying Booth

. =

ILKE

*The images and drawings of Custom Booths are for illustration purposes only, and do not necessarily represent the exact products. Manufacturer has a right to change the product specifications at any time without any prior notice. Please ask for a quotation for exact and up-to-date specifications.

PRODUCTS Custom Spray Booths





Box Oven



Custom Spray Booths **PRODUCTS**





PRODUCTS Custom Spray Booths





Painting and Drying Booth with Crane



Special Painting and Drying Booth, Special Preperation Station and Sandblasting Booth for Trailer

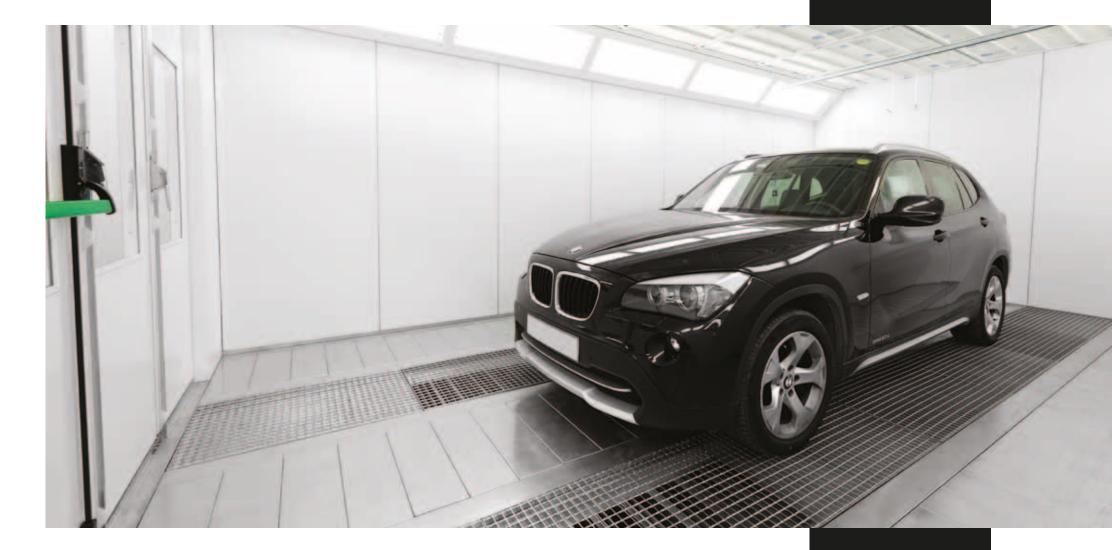




Our one of references for tanks.

*The images and drawings of Custom Booths are for illustration purposes only, and do not necessarily represent the exact products. Manufacturer has a right to change the product specifications at any time without any prior notice. Please ask for a quotation for exact and up-to-date specifications.









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