



FixStation



Passion
for BODYSHOPS
TECHNOLOGY
PROCESS and
LAYOUT

Symach

SOLUTIONS FOR COLLISION INDUSTRY

FIXSTATION

The FixStation is truly a body shop in one box. It is a modern and innovative solution to ensure high productivity and fast delivery of one- or two-panel repairs and the key-to-key time is guaranteed in half a day.

FixStation is a hybrid solution that works as a spray booth and a workstation, all in one spot. This solution allows one multi-skilled technician to perform an average of three to four repairs per day without moving the vehicle, which results in one repair every two to three hours.

FixStation is a fully equipped workstation where a technician removes and installs parts, pulls

dents, applies body filler, sprays primer, and sprays and dries waterborne/solvent basecoat and clear coat.

FixStation is equipped with a FlyDry robot, a paint mixing room, a Vacuum Sanding system and a MultiBox with plugs and retractable air and electric. Vehicle lifts are commonly installed in FixStations but are optional.

FixStation is available in multiple configurations based on length and height variables. One option includes pneumatic doors and CarMover rails that allow two technicians to work together. Another option includes inlet fans that warm the air.



The ventilation is at 24.000 cubic meters per hour or 14,125 CFM, for ideal air speed and performance inside the booth and fantastic abatement of overspray.

The floor is designed with four different chambers. This design is unique to Symach and guarantees consistent and balanced airflow when the floor filters are in need of replacement due to excess overspray build-up.

The PowerLight system, developed by Symach, guarantees impressive light on the vehicle and a perfect point of color for detailed paint application.

The FixStation has built-in technology and automation that recognizes the painting phase and changes the program automatically, using maximum speed of ventilation for spraying phases; average air speed for drying with the robot; and minimum air speed for climatization during other working phases. The painter never pushes any buttons.

The front and side doors are pneumatic, up and down, and the external cover is CoverTop, ABS plastic panels that are available in eight different colors.



DRYING PERFORMANCE

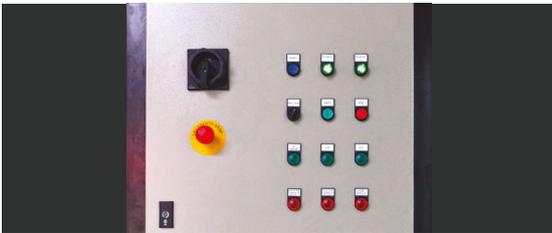


Dries a door in 1 minute and 30 seconds

The FixStation uses the FlyDry to dry paint.

> For the drying performance, please refer to the FlyDry catalog.

COMPUTER



The FixStation's computer automatically manages the three different programs without an operator. It not only selects and pushes the buttons, but it also automatically increases the speed of ventilation when the filters are dirty. The programs:

- **Spraying** / This program uses 80% of the total ventilation and automatically starts when the painter uses the spray gun and stops when the painter finishes spraying. This guarantees that the maximum consumption of electricity and gas is only for the time needed to spray.
- **Drying with FlyDry robot** / This program uses 40% of the total ventilation to remove the gas and solvent produced during the drying treatment.
- **Climatization** / This program is available only in the version with inlet warm air. It uses 30% of ventilation and starts automatically when one of the phases previously mentioned ends. This program offers clean and warm air to the painter when preparing the car to be painted.

MECHANIC

The FixStation standard model has a ventilation outlet with a fan of 20,000 m³ per hour of 705,000 CFM. The inlet air is from the plenum taking air from inside the warehouse.

COVERTOP

The outer covering of the FixStation is made of CoverTop panels, made in ABS injection plastic mold that can be opened and closed, allowing installation and/or repair of any electrical or air lines inside the FixStation wall.

CONFIGURATION



The FixStation is available in:

- two different lengths: 7 m or 23 ft and 8 m or 26.2 ft,
- two different heights: 3 m or 9.8 ft and 3.5 m or 11.5 ft,
- with one pneumatic side door,
- with plenum inlet air, and
- with warm air using the Solarys heating system.

WALL FRAME

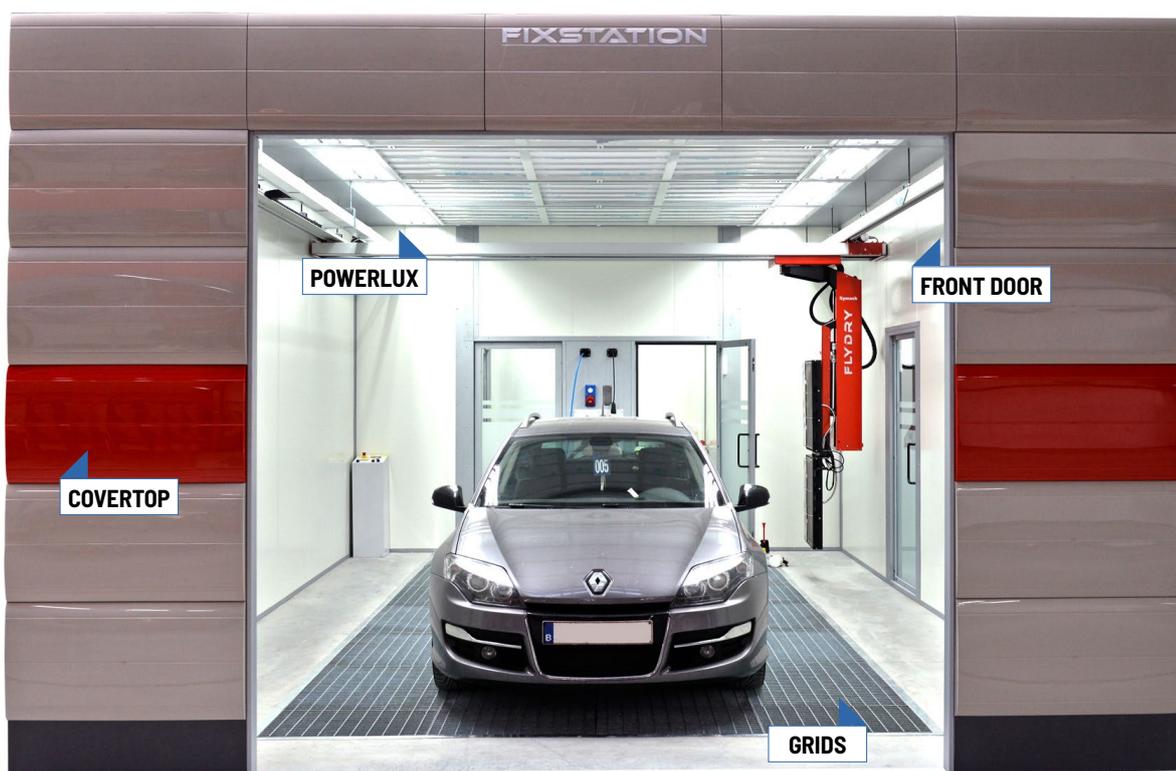


The FixStation side panel is a tubular-welded frame. Inside the booth, there is a powder-coated metal sheeting; in the middle, there is 5 cm or 2" of insulation and on the external side, there is the CoverTop, an ABS plastic panel available in eight different colors.

CEILING



The ceiling is a tubular-welded frame that supports the filters, which are divided into six different boxes that are easy to open to change the filters.



BASEMENT

The basement is 50 cm or 20" deep and the standard grids support a weight of 850 kg or 1,870 lb per point of 10" x 10".

DOORS

The Fixstation has a front pneumatic door and an optional side pneumatic door that opens and closes vertically to help avoid any dust movement.

LIGHT

The FixStation uses PowerLux, an innovative lamp developed by Symach's research department. It offers superior lighting performance and has a new and exclusive reflector that focuses the light beam with an angle that covers the car from the roof to the vertical bottom side without any dispersion. This new light reaches a quality and power superior to other lights on the market, both on the vertical side of the car as well on the horizontal side, which is very useful to the painter.

FIXSTATION TECHNICAL DATA

MEASURES AND DATA		
Outside length mod. A	8,00 m	26.2 ft
Outside length mod. B	9,00 m	29.5 ft
Outside width	5,10 m	16.7 ft
Inside height mod. A	3,00 m	9.8 ft
Inside height mod. B	3,50 m	11.4 ft
Weight	3500 kg	7716 lb
Front door width	3,00 m	9.8 ft
Height of front door mod. A	2,70 m	8.8 ft
Height of front door mod. B	3,20 m	10.4 ft
Air flow rate	20.000 m ³ /h	11,771 CFM
Air speed	0,3 m/sec	0.9 ft/sec
Maximum solvent quantity	0,3 g/h	0.010 lb/h
Compressed air system	8 Bar	116 PSI
Paint application method	manual	
Standard warranty	12 months	

FRONT DOOR		
Front door width	3,00 m	9.8 ft
Height of front door	2,70 mt	8.8 ft
Automatic closing	Air blade	
	Electric curtain	
	Closed hermetic	

EMERGENCY DOOR		
Width	1,00 m	3.2 ft
Working height	2,10 mt	6.8 ft

CONTROL BOX	
Electronic card	microcontroller
Keyboard	membrane
Display	2 x 20 DIGIT
Installed power	10 kw
Supply voltage	230 V~
Frequency	50 / 60 Hz
Controls voltage (power supply)	24 V~

FIXSTATION TECHNICAL DATA

AIR UNIT

Outlet diameter of exhaust fan	800 x 600 mm	
Max flow rate	24.000 m ³ /h	14,125 CFM
Motor power supply	400 V [~] - 230 V [~] / 60 Hz	
Motor rated power	7,5 kW	
Inverter	2 x 2,2 kW	2 x 7.5 BTU/h
Duct	2 x 0,90 m x 0,90 m	2 x 2.9 x 2.9 ft
Powerturbo structure	aluminium-steel	
Powerturbo measures (LxWxH)	1,05 x 1,05 x 0,3 m	3,4 x 3,4 x 1 ft

INSIDE FLOOR BASEMENT SPECIFICATIONS

Grid (LxWxH)	76 x 33 x 40 mm	2.9 x 1.4 x 1.5 ft
Load capacity	850 kg footprints	1873 lb footprints
Base length mod. A	6,5 m	21.3 ft
Base length mod. B	7,5 m	24.6 ft
Base width	3,0 m	9.8 ft
Depth hole	0.65 m	2.1 ft

ABOVE FLOOR BASEMENT SPECIFICATIONS

Grid (LxWxH)	76 x 33 x 40 mm	2.9 x 1.4 x 1.5 ft
Load capacity	600 kg footprints	1,322 lb footprints
Base length	6,5 m	21.3 ft
Base width	3,0 m	9.8 ft
High above floor	170 mm	1.47 ft

APPROVAL

Europe	EU: CE - ATEX II 3 G X
Australia	Compliant to Australian safety standards AS/NZS 4114.1:2003 - AS 3814.1:2009
North America	cETLus Listed - Intertek 5000803 ISO 9001



AUSTRALIAN
AS/NZS

AIR FILTER

Prefilters efficiency rating	G3	
Paint stop filters	50 mm	1.9"
Plenum filter	20 mm	0.7"

LIGHTS

Installed power Light In	1,944 kW	
Chromatic yield index	0,93 Ra	
Light flow of lamp	EL 35° 4300 LM	
Supply voltage	230 V [~]	
Color type	daylight color	
No. of PowerLux	12 (36 neon)	
Estimated life	24000 hours	
Frequency	50 / 60Hz	
Color temperature	5200 °K	
Mean lighting	1000 Lux	

PAINT MIXING ROOM

Width	2,00 m	6.5 ft
Height	3,00 m	9.8 ft
Depth	3,00 m	9.8ft
Electrical system, light switch and 2 sockets		
Lighting system comprised of two PowerLux IN2		
Ventilation and suction system		
Floating stainless steel floor		
Air filter in the ceiling		

OPTIONAL

Plenum

The plenum has an air ventilation channel and a fan of 20.000 m³ per hour or 11,771 CFM for the inlet air.

Heating system

The FixStation uses the FlyDry robot for drying paint. Included is the Solarys heating system, which is Symach's patented climate control solution.

Vacuum Sanding System and MultiBox

The FixStation has a vacuum sanding system and a MultiBox with electric plugs and retractable air and electric.

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Via Bazzane 69, 40012 Calderara di Reno (BO), Italy
info@symach.com - ph: +39 (0)51 96 31 61



www.symach.com