

Sirocco bench spray booth



1.1 metre bench booth

Fans can be fitted to either the top or rear of a booth

Each spray booth is manufactured from prime quality 18 swg galvanised sheet steel, which gives a smooth and fire resistant interior.

The **Sirocco Bench** dry-back spray booths have been designed for the smaller workshop where space is at a premium and intermittent spraying takes place throughout the working day.

This is a low cost modular unit which incorporates a disposable paper filter across the face of the extraction chamber.

The filter consists of two sheets of heavy paper, with corrugations of unequal size. The sheets are attached at the corrugations. Each sheet includes tiers of perforations, which are staggered relative to the other. This ensures that the paint laden air undertakes a tortuous path through the filter, thereby leaving the paint particles sticking to the paper surface.

The resultant clean air is discharged through an extractor fan to atmosphere.

These booths can be supplied with flameproof or non-flameproof lights, which are mounted within the overhead panels.

Any special size can be made to suit your application.

Sirocco Bench Spray Booth

Each spray booth is manufactured from prime quality 18 swg galvanised sheet steel, which gives a smooth and fire resistant interior.

Method of Operation

The spray booth has a disposable paper filter across the face of the extraction chamber. The filter consists of two sheets of heavy paper with corrugations of unequal size. The sheets are attached at the corrugations and each sheet has rows of perforations staggered relative to the other. This gives the paint laden air stream a tortuous path through the filter. The result is that the sticky paint adheres to the filter surface and clean air is discharged. It is important to keep these filters in perfect working condition.

These booths can be supplied with a flameproof or non-flameproof fan.

Standard booth on delivery includes:

Bench spray booth, fan set and motor, push button DOL, non-flameproof contactor starter and a pleated paper filter element. All constructed in modular panel form, which only requires bolting together. All panels are clearly marked for easy assembly.

Extraction Power

Extraction is provided by an indirect belt driven polypropylene bladed fan. The fan casing is constructed from 10 swg steel plate. The fan can be fitted to the top or rear of the booth.

The extraction rate is approximately 145 feet per minute (0.7 m/s) velocity across the face of the paper filter.

Type of Electric Motors

Single or three phase. Flameproof or TEFC, 50 Hz, non-flameproof.

Canopy Lighting

Non-flameproof fluorescent lights can be placed behind a Georgian wired glass mounted in the roof or a Zone 1 protection flameproof fluorescent light, which can be mounted directly to the roof.



Special 3.3 metre wide Sirocco bench with in-built cupboards



Special 6.6 metre wide Sirocco bench booth

Specification - Dry-back bench spray booth

Nominal Size of Booth metres wide	A mm	B mm	C mm	D mm	E mm	F mm	G mm	No. of Fans	Fan Dia. mm	Fan kW	Fan Vol. m³/h	Weight Kg
1.10	1100	1900	2350	1000	900	500	1100	1	400	0.75	2754	120
1.65	1650	1900	2350	1000	900	500	1100	1	400	1.1	4130	140
2.20	2200	1900	2400	1000	900	500	1100	1	500	1.1	5950	180
2.75	2750	1900	2400	1000	900	500	1100	1	500	1.5	8925	195
3.30	3300	1900	2400	1000	900	500	1100	1	500	1.5	8925	240

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Model 'EG' Energy Saving Switch Systems



For spray booths fitted with two fans, a specially modified 'EG' switching system is available, which enables the two fans to be activated by a single switch.

Minimum compressed air required to operate all models is 10 psi.

Specification				
Model	Diameter mm	Height mm	Weight Kg	Compressed Air Consumption
EG40	400	400	30	0.016 Ltr/cu.m.
EG50	500	500	32	0.016 Ltr/cu.m.
EG60	605	600	40	0.016 Ltr/cu.m.
EG63	630	600	42	0.016 Ltr/cu.m.
EG70	710	700	50	0.016 Ltr/cu.m.
EG80	800	800	60	0.016 Ltr/cu.m.

For Wet and Dry-Back Spray Booths

The Ferrell 'EG' energy switch system is ideally suited for use with most types of wet and dry-back spray booths.

The switch is activated when the spraying operative hooks the spray gun onto a trigger switch once spraying has finished. This, in turn, activates a pneumatically-operated valve which slowly shuts off a damper valve located directly below the fan on top of the spray booth.

When the damper valve is fully closed, a small amount of air passes through, thus ensuring that any fumes arising from products left in the spray booth are evacuated.

The 'EG' switch system is easily installed, (when compared with most other types), and it will enable the user to effect considerable savings in both heat loss and electrical consumption.

Features

- Complete with wall-mounted trigger switch
- Major heat loss savings
- Reductions in electrical consumption
- Appropriate lengths of flexible pneumatic piping from trigger to switch

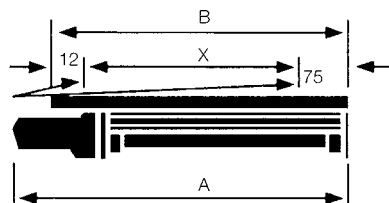
Zone I EExd Flameproof Fluorescent Lights



Standards

- BASEEFA certified No. Ex 94C 1488
- BS 5501 Pts 1 & 5 (EN 50014 and 50018)
- EExd IIB T6 (EExd IIC T6 to special order) for use in Zone 1 and 2 areas in accordance with thermal limitations defined in BS 5345, Pts 2 and 3 LEC 79 10
- Body alloy BS 1004 A
- CE marked
- BS 5750 Pt 2\ISO 9002
- IP66 -20° to +40°C ambient temperature range
- Class 1 insulated - earth required
- 220v - 254v, 50/60 Hz

Specification				
Normal Width m	Lamp Watts	Dimensions mm		
		A	B	X
0.6	18	835	748	661
1.2	36	1440	1353	1266
1.5	58	1740	1653	1566



The **Zone I Luminaire** is a high quality, heavy duty, high frequency fluorescent luminaire with full certification for use in hazardous and environmentally extreme conditions. It is a product range that has been tried and tested over many years and has an excellent record for versatility, performance, reliability and maintainability.

It is certified to be suitable for use in both Zone 1 and Zone 2 areas with group IIB gases and has a T6 surface temperature classification. This makes it a very versatile product in its application.

Sealed to IP 66, it is dust tight and can withstand water jets, which means that the Luminaire interior remains clean under arduous conditions.

Using its ability to be used in hazardous conditions, typical applications would be in hazardous industrial areas, marine oil and gas terminals, chemical petroleum and gas processing plants and spray booths.

- Exceptionally tough housing in marine grade, zinc alloy
- Borosilicate glass lamp overtube. This does not degrade with sunlight or UV from lamps and is scratch resistant
- Available in single lamp and twin lamp 18, 36 and 58 Watt.
- One body width for single and twin lamp versions
- High frequency operation

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THE POLLUTION CONTROL ENGINEERS

The **Sirocco Dry-Back Spray Booth** has been designed for the workshop where intermittent spraying takes place throughout the day.

This is a low cost unit, which incorporates a disposable paper filter across the face of the extraction chamber.

The filter consists of two sheets of heavy paper, with corrugations of unequal size. The sheets are attached at the corrugations. Each sheet includes tiers of perforations, which are staggered relative to the other. This ensures that the paint laden air undertakes a tortuous path through the filter, thereby leaving the paint particles sticking to the paper surface.

The resultant clean air is discharged through an extractor fan to atmosphere. Optional extras include 1100mm deep, front projection canopies, partitions to divide the larger booths into totally isolated spraying areas and front mounted hinged doors, for applications where completely self-contained enclosures are required. All the booths are fitted with canopies and can be supplied with flameproof or non-flameproof lights.

The **Fercell range of economical spray booths** are manufactured in standard widths from 1.1 metre to 6.6 metres, with specials made to a customer's individual requirements.



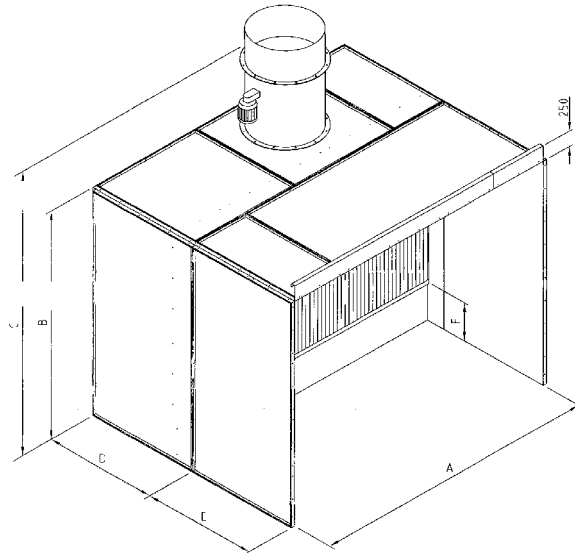
2.2 metre wide Sirocco booth with PF800 paper filters



2 x 6.6 metre and 1 x 2.75 metre wide Sirocco spray booths



2 x 6.6 metre wide Sirocco spray booths



Standard Booth on Delivery Includes: Spray booth, fan set(s) and motor, one front canopy, push button DOL, non-flameproof contactor starter and one carton of pleated paper filter, (9.2 metres in length x 900mm in height). All constructed in modular panel form and only requires bolting together, all panels clearly marked for easy assembly.

Extraction Power

Extraction is provided by indirect belt driven, polypropylene bladed fan(s). The fan casing is constructed from steel plate. The fan(s) can be mounted to the top or rear of the booth. The extraction rate is approximately 145 feet per minute (0.07 m/s) velocity across the face of the paper filter.

Type of Electric Motors

Single or three phase. Flameproof or TEFC, 50 Hz, non-flameproof.

Canopy Lighting

Non-flameproof fluorescent lights can be placed behind Georgian wired glass panels, mounted in the canopy roof or Zone 1 protection flameproof fluorescent lights can be mounted directly to the canopy roof.

Replacement Air

Adequate filtered air must be introduced to compensate for air lost through the extraction fan(s) and ensure that the booth operates to it's optimum design parameters. The extraction rates are as per the specifications tables.

Health and Safety

There is a statutory requirement under the Health and Safety Executive.

Spraying of Highly Flammable Liquids, Guidance Notes HSG178. Adequate ventilation must be installed, wherever spray painting is carried out.

Please note: This type of spray booth is not recommended for products containing isocyanates.

Any non-standard sizes manufactured to specific requirements

Specification – 2.2 metre high											
Nominal Size of Booth (metres wide)	A mm	B mm	C mm	D mm	E mm	F mm	No. of Fans	Fan Dia. mm	Fan kW	Fan Vol. m ³ /h	Weight Kg
1.10	1100	2200	2700	1100	1100	360	1	500	1.5	8925	200
1.65	1650	2200	2700	1100	1100	360	1	630	1.5	11600	250
2.20	2200	2200	2700	1100	1100	360	1	630	2.2	14620	300
2.75	2750	2200	2700	1100	1100	360	1	630	3.0	17850	330
3.30	3300	2200	2800	1100	1100	360	1	710	3.0	20400	350
3.85	3850	2200	2800	1100	1100	360	1	710	4.0	23800	370
4.40	4400	2200	2800	1100	1100	360	1	710	5.5	27200	425
4.40	4400	2200	2700	1100	1100	360	2	630	2.2	14620 x 2	432
4.95	4950	2200	2700	1100	1100	360	2	630	2.2	14620 x 2	450
5.50	5500	2200	2700	1100	1100	360	2	630	3.0	17850 x 2	465
6.05	6050	2200	2700	1100	1100	360	2	630	3.0	17850 x 2	495
6.60	6600	2200	2800	1100	1100	360	2	710	3.0	20400 x 2	580

Specification – 2.75 metre high											
Nominal Size of Booth (metres wide)	A mm	B mm	C mm	D mm	E mm	F mm	No. of Fans	Fan Dia. mm	Fan kW	Fan Vol. m ³ /h	Weight Kg
2.20	2200	2750	3250	1100	1100	360	1	630	3.0	17850	355
2.75	2750	2750	3350	1100	1100	360	1	710	3.0	20400	374
3.30	3300	2750	3350	1100	1100	360	1	710	4.0	23800	437
3.85	3850	2750	3350	1100	1100	360	1	710	5.5	27200	472
4.40	4400	2750	3450	1100	1100	360	1	800	5.5	32300	540
4.40	4400	2750	3250	1100	1100	360	1	630	3.0	17850 x 2	564
4.95	4950	2750	3250	1100	1100	360	2	630	3.0	17850 x 2	580
5.50	5500	2750	3350	1100	1100	360	2	710	3.0	20400 x 2	620
6.05	6050	2750	3350	1100	1100	360	2	710	4.0	23800 x 2	650
6.60	6600	2750	3350	1100	1100	360	2	710	4.0	23800 x 2	698

Specification – 3.30 metre high											
Nominal Size of Booth (metres wide)	A mm	B mm	C mm	D mm	E mm	F mm	No. of Fans	Fan Dia. mm	Fan kW	Fan Vol. m ³ /h	Weight Kg
2.75	2750	3300	3900	1100	1100	360	1	710	4.0	23800	405
3.30	3300	3300	4000	1100	1100	360	1	800	5.5	27200	472
3.85	3850	3300	3800	1100	1100	360	2	630	3.0	17850 x 2	520
4.40	4400	3300	3900	1100	1100	360	2	710	3.0	20400 x 2	580
4.95	4950	3300	3900	1100	1100	360	2	710	4.0	23800 x 2	610
5.50	5500	3300	3900	1100	1100	360	2	710	4.0	23800 x 2	650
6.05	6050	3300	3900	1100	1100	360	2	710	5.5	27200 x 2	680
6.60	6600	3300	4000	1100	1100	360	2	800	5.5	32300 x 2	730

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