

SPRAY BOOTH CATALOGUE

YOUR SUPPLIER OF CHOICE FOR
ALL FINISHING SYSTEMS

MASTERFLO
MASTRE-FLEX
NIAGARA





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MASTERFLO
MASTRE-FLEX
NIAGARA

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DO I NEED A SPRAY BOOTH?

YOU ASKED, WE ANSWERED!



HOW DO I KNOW I NEED A SPRAY BOOTH?

A spray booth is a reasonably substantial investment (kits start around \$10K + GST) so it will be a financial viability exercise to determine whether it makes economic sense.

There are no halfway measures with regards to infrequent or occasional use; a spray booth needs to include certain details or it does not comply. However, the convenience of having an in-house facility usually out-weighs the inconvenience of not having one. The threshold of feasibility is usually a usage of 1 – 2 days per week.

IS A SPRAY BOOTH A HAZARDOUS ZONE?

The spraying area of a booth is a Zone 1 Class 1 Hazardous Zone. This Haz Zone also extends 2.0m outside any opening into the booth work area. This needs to be considered when allocating space for a spray booth as all standard electrical switches, outlets and equipment, as well as all 'Hot Works', must be outside this zone.

HOW BIG DO I NEED MY SPRAY BOOTH?

As with most facilities the aim is to accommodate at least 80% of your workpieces, and it is important that the workpiece is fully within the booth work area.

It is recommended to have at least 1.0 – 1.5m horizontal, and 1.0m vertical, clearance around an item to provide suitable access and 'stand-off' distance. Larger internal area is needed for enclosed booths as an open front booth provides access to the job.

HOW MUCH ROOM DO I NEED FOR A SPRAY BOOTH OR PAINTING AREA?

In addition to the footprint of the work area the exhaust plenum takes up an addition 1.0 – 1.5m in length. If doors are fitted then space is needed to open them.

The extension of the hazardous zone also needs to be considered. And if a booth is larger than 6.0m in height or width it may need another PA door, so an exit path needs to be considered.

WHAT TYPE OF BOOTH OR SPRAYING AREA DO I NEED?

The type of booth most suitable for your type of work can be dictated by a couple of basic factors and relates mainly to the type of product you paint, and the finish required. This can be decided as follows:

- i. Regular industrial/machinery finish: Open faced; negative pressure – [See page 3](#)
- ii. Gloss industrial/furniture finish: Enclosed; negative pressure – [See page 7](#)
- iii. High gloss/automotive finish: Enclosed; positive pressure – [See page 35](#)
- iv. Small to large easily-moved items within a workshop: Fixed Booth – [See page 3](#)
- v. Very small or very light items: Bench Booth – [See page 11](#)
- vi. Larger items handled by overhead or mobile Lifting equipment: Retractable Booth – [See page 25](#)
- vii. Very large or long items e.g. structural steel: Filter Walls in a designated painting area – [See page 19](#)
- viii. Large movable components or machinery: Large engineered booth – [See page 15](#)
- ix. Temporary on-site painting of movable parts and components: Shipping container Spray Booth – [See page 41](#)

HOW DO I COMPLY TO REGULATIONS?

- a. All spray booths are to be designed and manufactured in accordance with AS4114.1 and documentation is to be provided to confirm this. All spray booths are to be installed and maintained in accordance with AS4114.2. The installer is to provide confirmation of the installation, and the operator is to confirm compliance of the maintenance. maintenance record templates are contained in the manual.
- b. Designated painting areas are not as closely specified in the standard so the hazardous area classification and compliance should be assessed on a case-by-case basis by an auditor.

HOW LONG DO THE FILTERS LAST?

- a. Exhaust filters: The purpose of exhaust filters is to catch overspray, which is essentially wasted paint. As the paint is intended to be applied to the workpiece, under regular conditions it is expected filters will need changing 1 – 4 times a year. If they are needing to be changed more regularly than this, then your paint application methods and equipment set-up may need reviewing.
- b. Intake filters: The purpose of intake filters is to capture airborne particles and dust from entering the booth work area and contaminating the paint job. Unless the outside environment is extra dusty these will need changing every 12 – 18 months.

WHAT OTHER THINGS DO I NEED TO KNOW?

- a. A complying spray booth needs to be fitted with an exhaust stack that discharges vertically, and 3.0m above the roofline.
- b. A complying spray booth needs to be interlocked with the spray painting equipment. The control cubicle does this – [See page 43](#).
- c. Spray painting equipment is required. This is not considered an integral part of a spray booth and is to be sourced separately.
- d. An air compressor is required. This is not considered an integral part of a spray booth and is to be sourced separately.





MASTERFLO

SPRAY BOOTHS

OPEN FACED AND ENCLOSED

With a MASTERFLO fixed spray booth you can now operate your spray painting process in a controlled environment without pumping fumes and overspray all over your workshop.

The airflow through the work area has been specifically designed to contain and exhaust all solvent fumes, whilst capturing the overspray in a simple yet effective low-maintenance filter system.

Constructed from durable materials they are designed to remain modular and relocatable.

FAQ's

What sizes do fixed spray booths come in?

MASTERFLO spray booths are made from modular systems in both height, width & depth, so practically any size is available in 1.0m increments.

From the tips on [page 1](#) calculate what size you need and there will be a unit close to these in the table on [page 6](#).

Do spray booths have lighting?

Surface mounted lights are available and can be fitted anywhere – ceiling, cornice or walls.

How do you protect the walls from overspray?

A strippable coating is available for any booth, whereby it is applied first when the booth is new. When the walls become covered with overspray you simply peel off and re-apply.

Do they comply to Australian Standards – AS4114?

They comply in every respect, including design, materials and manufacture. However, the installation and maintenance also needs to be carried out in accordance with AS4114, and this is the responsibility of the owner/operator.

Are spray booths difficult to assemble?

The MASTERFLO spray booth is a pre-engineered modular system that arrives to site as a kit with a comprehensive assembly and operator's manual.

Standard trade skills are required to assemble the booth, with special skills needed for:

- Wiring up the electrical components and connecting it to 3-phase power.
- Weather-proofing any building penetrations.
- Working at heights.

Do they come with a single-phase motor?

Due to the required wiring compliance of the motor single phase fans are NOT available.

If I get an open front booth can I fit intake filter doors later?

Certainly. The door system is so designed that they are a simple 'add-on' to the booth. This applies to both the MASTERFLO (fixed) and MASTREFLEX (retractable) systems.



Have a question about our spray booths?

Talk to our technical team who can provide advice on a suitable spray room solution for your work area.

MASTERFLO

OPEN FACED SPRAY BOOTHS



FEATURES

QUIET OPERATION

All fans, both inlet and exhaust, above 610mm diameter, operate at 960rpm giving a quieter operation and more comfortable working environment.

UNRESTRICTED AIRFLOW THROUGH FILTER

The MASTERFLO design incorporates the unique pleated card filter wall which captures airborne particles using the inertia separation principle. Overspray is retained outside the airstream in holding pockets giving it 3 to 5 times the life of fibre-glass filters. This ensures an even airflow is maintained across the filter wall throughout the life of the filter.

REDUCED MAINTENANCE

The MASTERFLO filter system is made of two pleated cardboard walls glued together by their edges. This enables the filter to fold together down to 1/10 of its size making disposal simple and easy.

HOLDS CAPTURED OVERSPRAY

Using the unique Inertia Separation Principle the majority of airborne particles are retained outside the airstream in holding pockets between the card walls inside the filter itself. This keeps the airflow through the filter clear as well as capturing the overspray particles for easy disposal.

FILTERS ANY AIRBORNE PARTICLE

The MASTERFLO Dry Filter Spray Booth has proven to be efficient in the capturing of the overspray of paint, glue, resin, fibre-glass, tar, teflon, oil, grease, or any other airborne liquid particle.

LARGE FILTER AREA

The MASTERFLO Spray Booth can be fitted with 1000mm high corrugated cardboard filters which gives a greater target area for the overspray than is standard, and improves air flow.

LONGER WORKING LIFE

The MASTERFLO Dry Filter Spray Booth is made entirely from galvanised sheet metal which inhibits the spread of corrosion and makes for a sturdy construction. This ensures downtime due to maintenance is greatly reduced.

EASE OF INSTALLATION

The booth, subject to the client's individual requirements, can be supplied in panel form for easy assembly, requiring only the fitting of the fan and flue, and the connection to an air and power supply.

INSTRUCTION AND MAINTENANCE MANUAL

Every MASTERFLO Spray Booth is supplied with a comprehensive instruction and maintenance manual including a service guide with all replacement parts.



SPRAY BOOTH WITH CONVEYOR OPENINGS



SPRAY BOOTH WITH CRANE SLOT

OPEN FACED SPRAY BOOTH

SPECIFICATIONS

| MODEL | INSIDE (WORK AREA) | | | EXHAUST FAN | | |
|--------|--------------------|--------|----------------------------------|-----------------|---------|----------|
| | Width | Height | Depth | Flue Dia | Kw | L/Sec |
| MF2020 | 1960 | 2050 | Any depth in increments of 980mm | 560mm (22") | 1.5 | 2200 |
| MF3020 | 2940 | 2050 | | 560mm (22") | 1.5 | 3100 |
| MF4020 | 4110 | 2050 | | 710mm (28") | 1.5 | 4410 |
| MF5020 | 4900 | 2050 | | 710mm (28") | 2.2 | 5250 |
| MF6020 | 5880 | 2050 | | 800mm (32") | 3.0 | 6700 |
| MF2024 | 1960 | 2400 | Any depth in increments of 980mm | 560mm (22") | 1.5 | 2400 |
| MF3024 | 2940 | 2400 | | 630mm (25") | 1.5 | 3600 |
| MF4024 | 4010 | 2400 | | 710mm (28") | 2.2 | 4920 |
| MF5024 | 4900 | 2400 | | 800mm (32") | 3.0 | 5880 |
| MF2828 | 2685 | 2775 | Any depth in increments of 895mm | 710mm (28") | 1.1 | 4170 |
| MF3828 | 3580 | 2775 | | 710mm (28") | 2.2 | 5250 |
| MF4828 | 4475 | 2775 | | 800mm (32") | 3.0 | 6700 |
| MF5828 | 5370 | 2775 | | 800mm (32") | 4.0 | 8400 |
| MF3030 | 2970 | 3060 | Any depth in increments of 990mm | 710mm (28") | 2.2 | 5250 |
| MF4030 | 3960 | 3060 | | 800mm (32") | 3.0 | 6700 |
| MF5030 | 4950 | 3060 | | 800mm (32") | 4.0 | 8400 |
| MF6030 | 5940 | 3060 | | 800mm (32") | 7.5 | 10500 |
| MF7030 | 6930 | 3060 | | 800mm (32") | 7.5 | 10850 |
| MF3040 | 2970 | 4050 | Any depth in increments of 990mm | 800mm (32") | 3.0 | 6700 |
| MF4040 | 3960 | 4050 | | 800mm (32") | 4.0 | 8400 |
| MF5040 | 4950 | 4050 | | 800mm (32") | 7.5 | 10500 |
| MF6040 | 5940 | 4050 | | 800mm (32") x 2 | 3.0 x 2 | 6700 x 2 |
| MF7040 | 6930 | 4050 | | 800mm (32") x 2 | 4.0 x 2 | 8400 x 2 |

Note: Special sizes and configurations are readily available upon request.

WHAT'S INCLUDED WITH A MASTERFLO OPEN FACED SPRAY BOOTH?

- Concertina card exhaust filter media collects overspray out of airstream
- 1.0mm thick galvanised sheet metal work area
- 1.0mm thick galvanised exhaust duct & cowl
- Modular design
- Exhaust fan speed @ 960 rpm on fan sizes above ø610mm
- Designed and manufactured to meet the current Spray Booth Standards – AS4114
- Simple screw-together work area
- One piece fan manufactured from mild steel with hot dip galvanised finish
- Standard air volumes through the open face spray booths are based on a minimum 0.5m/sec (100ft/min) across the open face of the booths work area
- Uniform air movement for full area ventilation
- Computer designed and fabricated for accurate assembly
- 12 month warranty
- Over 30 years spray booth manufacture experience
- Comprehensive instruction manual
- Australia wide technical support, sales and service
- Australia wide Toll free phone number 1800 190 190

MASTERFLO

ENCLOSED FIXED SPRAY BOOTHS



To achieve that high-gloss finish, and to guarantee a quality coating, nothing compares with the MASTERFLO Enclosed Spray Booth.

With all the features and performance of the proven MASTERFLO and NIAGARA spray booths these reliable systems just got better!

The air intake filter doors can be fitted to all systems, the dry filter and water wash, the fixed and retractable, to bring to your workshop a controlled environment, and a flawless paint job!



FEATURES OF THE MASTERFLO ENCLOSED SPRAY BOOTH

MODULAR CONSTRUCTION

All spray booths are of modular construction giving you full versatility of location, alteration and re-location.

RANGE OF CONFIGURATION

Either the MASTERFLO or NIAGARA Filtration System can be utilised to ensure all overspray is contained and captured.

DURABLE DOOR CONSTRUCTION

Doors are built from an RHS steel frame for strength, swung on a heavy-duty continuous hinge, and with the swinging end supported by a double-wheel assembly.

EASY-CHANGE FILTER RETAINER

The intake filter is retained in a simple frame that is held together with an easy-to-use spring clip, making filter changing quick and trouble-free.

VERSATILITY

Doors can be designed as single or double, hinged and bi-fold, that can be mounted into any wall of the spray booth. They can include a viewing window, door closers and spring latches, with floor brush for any location.

QUIET OPERATION

All fans, both inlet and exhaust, above 610mm diameter, operate at 960rpm giving a quieter operation and more comfortable working environment.

UNRESTRICTED AIRFLOW THROUGH FILTER

The MASTERFLO design incorporates the unique pleated card filter wall which captures airborne particles using the inertia separation principle.

Overspray is retained outside the airstream in holding pockets giving it 3 to 5 times the life of fibre-glass filters. This ensures an even airflow is maintained across the filter wall throughout the life of the filter.

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LARGE FILTER AREA

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LONGER WORKING LIFE

The MASTERFLO Dry Filter Spray Booth is made entirely from galvanised sheet metal which inhibits the spread of corrosion and makes for a sturdy construction. This ensures downtime due to maintenance is greatly reduced.

EASE OF INSTALLATION

The booth, subject to the client's individual requirements, can be supplied in panel form for easy assembly, requiring only the fitting of the fan and flue, and the connection to an air and power supply.

INSTRUCTION AND MAINTENANCE MANUAL

Every MASTERFLO Spray Booth is supplied with a comprehensive instruction and maintenance manual including a service guide with all replacement parts.



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Note: Special sizes and configurations are readily available upon request.

WHAT'S INCLUDED WITH A MASTERFLO ENCLOSED SPRAY BOOTH?

- Concertina card exhaust filter media collects overspray out of airstream
- 1.0mm thick galvanised sheet metal work area
- 1.0mm thick galvanised exhaust duct & cowl
- Modular design
- Exhaust fan speed @ 960 rpm on fan sizes above ø610mm
- Designed and manufactured to meet the current Spray Booth Standards – AS4114
- Simple screw-together work area
- One piece fan manufactured from mild steel with hot dip galvanised finish
- Standard air volumes through the open face spray booths are based on a minimum 0.5m/sec (100ft/min) across the open face of the booths work area
- Uniform air movement for full area ventilation
- Computer designed and fabricated for accurate assembly
- 12 month warranty
- Over 30 years spray booth manufacture experience
- Comprehensive instruction manual
- Australia wide technical support, sales and service
- Australia wide Toll free phone number 1800 190 190



Not only do we now produce a better finish, but we can paint several and varied jobs instead of one at a time, and can even paint different colours side by side without any problems.



MANAGING DIRECTOR, PIPER & HARVEY STEEL FABRICATIONS
NEW SOUTH WALES, AUSTRALIA





MASTERFLO **BENCH SPRAY BOOTHS**

Bench spray booths can be designed to suit a diverse range of components whilst containing all fume and overspray to a small area of your workshop.

It is amazing what you can do in any size workshop while still complying with the regulations.

FAQ's

What sizes do bench booths come in?

MASTERFLO Bench Booths come in two sizes – 1.0m wide & 2.0m wide.

Do they Comply to AS4114?

Certainly. But only when the control cubicle is fitted.

How much weight can the bench take?

The standard bench will take up to 5kg; A heavy-duty bench is optional and will take up to 50kg.

Do they have lighting?

Lighting is an option and is definitely worth the cost.

Do they comply to Australian Standards – AS4114?

They comply in every respect, including design, materials and manufacture. However, the installation and maintenance also needs to be carried out in accordance to AS4114, and this is the responsibility of the owner/operator.

Are they difficult to assemble?

The MASTERFLO Spray Booth is a pre-engineered modular system that arrives to site as a kit with a comprehensive assembly and operation manual.

Standard trade skills are required to assemble the booth, with special skills needed for:

- a. Wiring up the electrical components and connecting it to 3-phase power.
- b. Weather-proofing any building penetrations.
- c. Working at heights.

Do they come with a Single-Phase Motor?

Due to the required wiring compliance of the motor, single phase motors are NOT available.



Have a question about our spray booths?

Talk to our technical team who can provide advice on a suitable spray room solution for your work area.

MASTERFLO

BENCH SPRAY BOOTHS



BENCH-TYPE SPRAY BOOTH SPECIFICATIONS

| MODEL | INSIDE (WORK AREA) | | | EXHAUST FAN | | |
|---------|--------------------|--------|-----------|-------------|------|-------|
| | Width | Height | Depth | Flue Dia | Kw | L/Sec |
| MF1000B | 980 | 1070 | 370 + 200 | 400mm (16") | 0.55 | 550 |
| MF2000B | 1960 | 1115 | 370 + 400 | 457mm (18") | 0.55 | 1400 |



MASTERFLO 1000B



MASTERFLO 2000B

AVAILABLE OPTIONS



HEAVY DUTY BENCH



FAN SILENCER



It is with much pleasure Widgee Engineering would like to inform the directors of BlastOne of the incredible job your staff in Gympie, Queensland and in Sydney, New South Wales offices have done to ensure our order has been handled in such a way, it has been an easy and trouble-free transition for our company.

WIDGEE ENGINEERING, QUEENSLAND, AUSTRALIA





MASTERFLO

CUSTOM DESIGNED SPRAY BOOTHS

From concept to completion - MASTERFLO
Spray Booths can be designed to any size
to suit your requirements.

PROJECT JOURNEY

By following our process, you drive out risk in



BUDGET

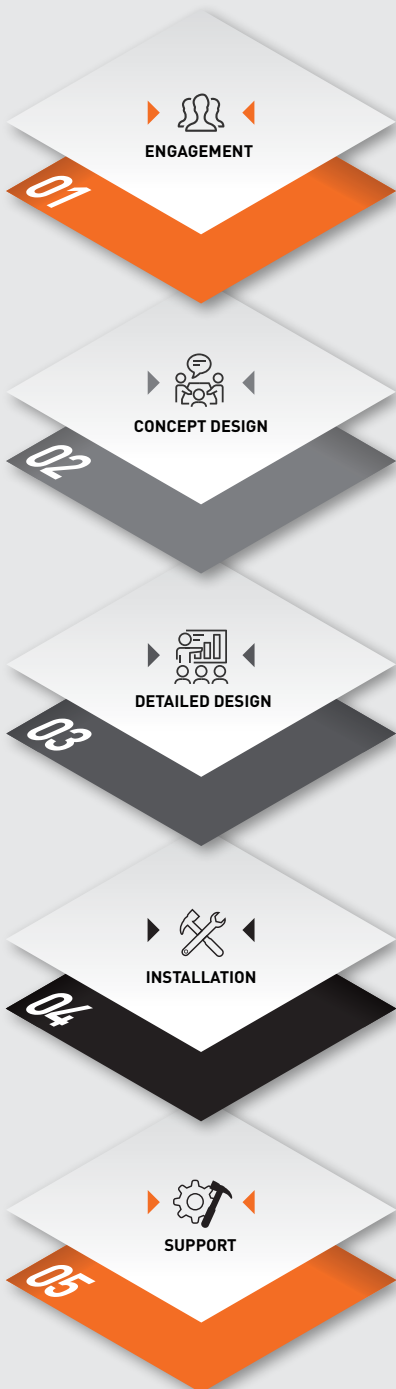


SCHEDULE



PERFORMANCE

from every project. Which protects YOU, our valued customer, from committing to a project outside your scope, and guarantees a successful project - beginning to end.



ALIGNMENT + ENGAGEMENT

◀ 01

1. Team discussion to understand basic scope requirements, schedule demands, and financial realities
2. Costs analysis for budget alignment
3. Execute basic design agreement

CONCEPT DESIGN + BUDGETING

◀ 02

1. Development of written Basis of Design document
2. Create first level concept drawings
3. Compile budget document

DETAILED DESIGN + COSTING

◀ 03

1. Detailed design and engineering of mutually agreed solution
2. Prepare full contract package with firm fixed pricing, detailed equipment scope and construction documents
3. Execute contract package for delivery

MANUFACTURING + INSTALLATION

◀ 04

1. Manufacturing and purchasing of all approved equipment and engage all sub-trades
2. Delivery and installation of equipment
3. Commissioning of equipment and training of operators

AFTER SALES + TECHNICAL SUPPORT

◀ 05

1. Contract preventative maintenance with extended warranties
2. Vendor managed inventory of genuine spare parts
3. On-going recurrent operator and maintenance training

MASTERFLO

CUSTOM DESIGNED SPRAY BOOTHS



The BlastOne in-house Design Team can design a MASTERFLO Spray Booth of any configuration to suit your products, work-flow and location.

FROM CONCEPT TO COMPLETION

Design ▶ Build ▶ Support

The MASTERFLO design can incorporate stop-end or drive-thru access (front to back or side to side), fan silencers, specialised lighting (ceiling and wall), air intake filter doors, job handling equipment, paint mixing rooms and much more.



BlastOne's project process includes in-depth consultation with all stakeholders, submission of detailed concept designs, and accurate costings prior to commencement ensuring all concerns are addressed and clarified.

Case Study #1

Large Assembly Workflow

A large portable building hire company in western Sydney needed a solution to their challenge of painting large assemblies whilst not only keeping the facility compact but also aligning with the workflow of their production and refurbishment process.

Their main aim was containment of the painting process and continuity of workflow.

BlastOne designed, manufactured and installed this Large Open Faced Spray Booth that incorporated side-wall doors enabling the portable building to enter from the RHS and exit through the LHS, creating the perfect 'Flow-Thru' facility.



Case Study #2



Dual Spray Booth/Prep Booth Solution

When Sherrin Rentals, a national plant and machinery hire company, needed a solution for the surface preparation and painting requirements in their new Brisbane workshop BlastOne provided the perfect offer.

We were engaged through a Concept and Design Engineering (CaDE) contract to formulate a system that would be serviceable yet flexible for the many demands that were encountered daily.

The result was the supply and Installation of this dual spray booth/prep booth system with an adjoining paint mixing room the included LED wall lighting, intake filter doors to the front and an wet and dry particle exhaust filter system.

Case Study #3



Enclosed spray booth for expanding pump manufacturer

When Truflo Pumps, a leading pump manufacturer in regional NSW, needed additional capacity to handle fast growing production demands they engaged BlastOne to utilise an adjacent storage area to install this Spray Booth.

The design neatly fitted within the existing workshop and placed it near to their manufacturing area immediately increasing output efficiencies.

The BlastOne design included Intake Filter Doors, LED Lighting, Fan Silencer and Exhaust Ducting that truncated behind the overhead crane rail to maintain its travel range over the booth.

Another fully compliant and successful project by the BlastOne Team.



Have a question about our spray booths?

Talk to our technical team who can provide advice on a suitable spray room solution for your work area.



MASTERFLO **FILTER WALL SYSTEMS**

The compact design of the MASTERFLO Filter Wall Systems provides good directional airflow through spray painting workshops where the nature of the components to be painted makes using a spray booth impractical!

With all the features of a MASTERFLO Spray Booth included, they ensure a low-maintenance and trouble-free solution to many situations.

FAQ's

How well do filter walls ventilate the area?

MasterFo Filter Walls help in creating 'directional airflow' through the work area. It is therefore important that 'make-up air' is allowed into that work area, and enters 'opposite' the Filter Walls. Providing the work area is between the extraction system and the air inlets, the area will ventilate, regardless of how long it is. This is the best arrangement for ventilating large Designated Painting Areas (DPAs).

How big should the filter wall be?

The MASTERFLO Filter Wall System should be as wide as the DPA and as high as the workpiece. To achieve ventilation over the width of the work area Filter Walls can be either banked together or spaced apart. However, due to gravity it is often not necessary to have the Filter Wall higher than 6.0m high, as large workpieces are likely to be in large work areas, and overspray mostly falls to the floor within 6 – 8m from where it is produced.

How well does the filter work?

Due to gravity making the overspray fall out within 6 – 8m often not much of it will reach the filters. As a result, it may appear that the filters are not capturing much of the overspray. However, this is because it is mostly on the floor.

This does not mean filters are not needed. Every spray painting area ventilation system needs filters.

What sizes do Filter Walls come in?

MASTERFLO Filter Walls are made from modular systems in both height and width, so practically any size is available in 1.0m increments. From the tips on [page 1](#) calculate what size you need and there will be a unit close to these in the table on [page 22](#).

Do they comply to Australian Standards – AS4114?

With Designated Painting Areas compliance relates to the whole area – not just the Filter Walls. The Filter Walls comply in every respect, including design, materials and manufacture. However, to gain full compliance for your DPA it may require Classification & Auditing, which BlastOne offers as an additional service.

Note: Compliance is still the responsibility of the facility owner/operator.

Are they difficult to assemble?

MASTERFLO Filter Walls are a pre-engineered modular design that arrives to site as a kit with a comprehensive Assembly & Operator's Manual. Standard trade skills are required to assemble the booth, with special skills needed for:

- a. Wiring up the electrical components and connecting it to 3-phase power.
- b. Weather-proofing any building penetrations.
- c. Working at heights.



Have a question about our spray booths?

Talk to our technical team who can provide advice on a suitable spray room solution for your work area.

Case Study #1



Large designated painting area for aircraft refinishing

MAF or Mission Aviation Fellowship is an international Christian organisation whose purpose is to bring help, hope and healing through aviation to people living in isolation and poverty.

Every six minutes an MAF aircraft takes off or lands somewhere in the world, transporting people who live in remote villages and assisting missions, churches, aid and development agencies and others working to transform the lives of communities that are cut off from the outside world.

They therefore have many aircraft to service and maintain.

MAF reached out to BlastOne in early 2021 enquiring how to go about fitting hangars in Mareeba (near Cairns, Qld) out as a spray booth which was 24m wide x 15m deep x 6m high.

The BlastOne Design Team worked with MAF and their builder to implement a Designated Painting Area (DPA) which included the Supply of the following Equipment and Services.

1. 4 x MASTERFLO 5040D Filter Walls: Plenum units being 5m wide x 4m high fitted with high-efficiency filter, dual fans and silencers.
2. 125 x Intake Filter Panels: These were made to exact size to fit into a unique folding door system that allowed the complete workarea to open for large aircraft.
3. Hazardous Area Classification and Audit: A professional review and sign-off of the facility provided by our contract electrical engineer.

All equipment was supplied in documented kitform and seamlessly installed by the builder's on-site team with remote support from BlastOne.



INTERNAL AND EXTERNAL VIEW



INTERNAL AND EXTERNAL VIEW

FILTER WALL SPECIFICATIONS

| MODEL | INSIDE (WORK AREA) | | | EXHAUST FAN | | |
|----------|--------------------|--------|-------|-----------------|---------|----------|
| | Width | Height | Depth | Flue Dia | Kw | L/Sec |
| MF2020FW | 2050 | 2095 | 980 | 560mm (22") | 1.5 | 3000 |
| MF3020FW | 3030 | 2095 | 980 | 560mm (22") | 1.5 | 3100 |
| MF4020FW | 4100 | 2095 | 980 | 800mm (32") | 3.0 | 6700 |
| MF5020FW | 4990 | 2095 | 980 | 800mm (32") | 3.0 | 6700 |
| MF2828FW | 2775 | 2820 | 895 | 710mm (28") | 1.1 | 5350 |
| MF3828FW | 3670 | 2820 | 895 | 800mm (32") | 3.0 | 6700 |
| MF4828FW | 4565 | 2820 | 895 | 800mm (32") | 3.0 | 6700 |
| MF5828FW | 5460 | 2820 | 895 | 800mm (32") | 4.0 | 9000 |
| MF3030FW | 3060 | 3105 | 990 | 800mm (32") | 3.0 | 6700 |
| MF4030FW | 4050 | 3105 | 990 | 800mm (32") | 3.0 | 6700 |
| MF5030FW | 5040 | 3105 | 990 | 800mm (32") | 4.0 | 9000 |
| MF6030FW | 6120 | 3105 | 990 | 800mm (32") | 7.5 | 10500 |
| MF7030FW | 7020 | 3105 | 990 | 800mm (32") | 7.5 | 10850 |
| MF3040FW | 3060 | 4095 | 990 | 800mm (32") | 3.0 | 6700 |
| MF4040FW | 4050 | 4095 | 990 | 800mm (32") | 4.0 | 9000 |
| MF5040FW | 5040 | 4095 | 990 | 800mm (32") | 7.5 | 10500 |
| MF6040FW | 6120 | 4095 | 990 | 800mm (32") x 2 | 3.0 x 2 | 6700 x 2 |
| MF7040FW | 7020 | 4095 | 990 | 800mm (32") x 2 | 4.0 x 2 | 9000 x 2 |

Note: Special sizes and configurations are readily available upon request.

WHAT'S INCLUDED WITH A MASTERFLO FILTER WALL SPRAY BOOTH?

- Concertina card exhaust filter media collects overspray out of airstream
- 1.0mm thick galvanised sheet metal work area
- 1.0mm thick galvanised exhaust duct & cowl
- Modular design
- Designed and manufactured to meet the current Spray Booth Standards – AS4114
- One piece fan manufactured from mild steel with hot dip galvanised finish
- Simple screw-together construction
- Uniform air movement for full area ventilation
- Standard air volumes through the open face spray booths are based on a minimum 0.5m/sec (100ft/min) across the open face of the booths work area
- Computer designed and fabricated for accurate assembly
- 12 month warranty
- Over 10 years design experience
- Comprehensive instruction manual
- Australia wide technical support, sales and service
- Australia wide Toll free phone number 1800 190 190

MASTERFLO

AIR INTAKE LOUVRE & FILTER UNITS



To guarantee Consistent and Effective Directional Airflow install Air Intake Louvres into the wall opposite the MASTERFLO Filter Walls.

To improve the quality of air entering the painting area it is recommended Air Intake Filter Panels be mounted onto the inside of the Louvres which will remove any airborne particle from the make-up air.

The MASTERFLO Air Intake Louvre has a Unique Inverted 'V' Louvre which offers the following:

- 'Weather-Proof' from both sides.
- Create a 'diverted' airflow route to help containment of airborne particles.
- Simple and easy to add Intake Filter Panels.
- Look smart and professional.

AIR INTAKE LOUVRE & FILTER UNIT SPECIFICATIONS

| MODEL | INSIDE (WORK AREA) | | | EXHAUST FAN | |
|--------|--------------------|--------|-------|-------------|-------|
| | Width | Height | Depth | Max Airflow | L/Sec |
| MF1810 | 1800mm | 1000mm | 90mm | 1.0 m/sec | 1,800 |
| MF2410 | 2400mm | 1000mm | 90mm | 1.0 m/sec | 2,400 |



INTERNAL VIEW



EXTERNAL VIEW



INTERNAL VIEW




EXTERNAL VIEW



BLASTONE

MASTER FLO 5020


I would like to pass on our thanks for the extraction
equipment you guys sold to us... it very much exceeds
our expectation.


PHOENIX LININGS, ROXBY DOWNS, AUSTRALIA



MASTRE-FLEX **RETRACTABLE SPRAY BOOTHS**

The MASTRE-FLEX retractable work area system is the ideal solution to painting heavy, hard-to-manage work pieces. The whole work area can be simply folded away and pulled around the item, once it has been craned into position.

MASTRE-FLEX is also the answer to that 'occasional-use' situation as it is simply folded away leaving that valuable work area for other work processes

FAQ's

How long does the sheeting last?

It will last for many years. The strippable coating is supplied with every booth, which is first applied when the booth is new. When the sheeting becomes covered with overspray you simply peel off and re-apply. Also, (it is not 100% puncture proof) but has a re-reinforcing grid of 3/4"/20mm sq which stops cuts from travelling. The sheeting can be replaced, but note, it doesn't come under much stress as mostly it would only be pulled in and out 2 – 5 times a day and the folds are not 'creased', only loosely folded.

How strong is the frame?

The framework is made from 50x25 RHS and 25x25 RHS meaning at every module join you effectively have a 50x50 post with a cross stiffener. The frame members are connected with 10mm pins which have little or no load on them. All designs are fully engineered. For larger booths larger framing may be required.

How big can you go?

We haven't done our biggest booth yet! 6.0m high is no problem, and 12.0m Wide is available with some additional engineering.

For larger booths heavier-duty wheels are used, as well as double wheels; a standard wheel takes 75kg each which is over and above any required load.

Can you install heating in a Retractable Booth?

Due to the work area being retractable, non-insulated and not sealed to the floor it is not considered practical to fit heating.

Do they comply?

They comply in every respect. The plenum section is identical to a fixed spray booth; as is the airflow, switchboard and electrics, discharge stack, filters, etc.

The Australian standards says materials 'should not support combustion' which the Sheeting complies with. The Sheeting is rated FRAS – Flame Retardant Antistatic.

The only thing you need to consider is that due to the sheeting not being sealed to the floor the Hazardous Zone extends for the full length of the booth, not just the open front. (In Australia/New Zealand this is 2m radius).

How much are they?

They are around the same price as a fixed booth. They are not a 'cheap option'. They are 'a tool for a use' and are to be considered for their features and advantages.

Why buy a Retractable Booth?

The main reason clients install a Retractable Booth is for use with overhead or mobile lifting equipment. Items can be easily placed into position when the booth is retracted, and the work area simply pulled over it. A secondary reason is that the client must have a booth but only uses it occasionally.



Have a question about our spray booths?

Talk to our technical team who can provide advice on a suitable spray room solution for your work area.

MASTRE-FLEX

RETRACTABLE SPRAY BOOTH SYSTEM



THIS...

CLICK HERE TO WATCH
THE RETRACTABLE SPRAY
BOOTH OPEN AND CLOSE



...CAN BECOME THIS!

FEATURES OF THE MASTRE-FLEX

ADAPTABLE

The MASTRE-FLEX Retractable work area System can be coupled with any extraction system, either the MASTERFLO Dry Filter or the NIAGARA Water Wash System.

SPRAY PAINTING WORKAREA WHEN YOU NEED IT

The retractable design of the MASTRE-FLEX System allows you to crane heavy 'immovable items' into place and then by extending the work area around it, it is now inside a spray booth. You can now spray paint without having to send everyone home.

MODULAR

MASTRE-FLEX is a modular system which means it can be added to, or subtracted from, at anytime. It also means any repairs or maintenance required is confined to one section of the work area and does not need a total replacement.

SPACE SAVING DESIGN

The MASTRE-FLEX work area consists of a uniquely designed folding-frame mechanism that can be 'concertina-ed' away to leave your valuable floor space available for other activities.

STRONG AND STURDY CONSTRUCTION

The MASTRE-FLEX Folding-Frame Mechanism is constructed from 50 x 25 RHS with a durable powdercoat finish which makes for a long-lasting product that endures the tests of constant use.

The cover-sheeting is a clear flame-retardant PVC which allows for excellent visibility and long-life operation.

EXCELLENT VISIBILITY AND FLEXIBILITY

The clear cover-sheeting allows for excellent visibility, and due to its modular design can be made to accommodate almost any location or work piece size.



OPEN FACED MASTRE-FLEX BOOTH RETRACTED



ENCLOSED MASTRE-FLEX BOOTH EXTENDED - WITH DOOR OPEN

RETRACTABLE SPRAY BOOTH SPECIFICATIONS

| MODEL | INSIDE (WORK AREA) | | | EXHAUST FAN | | |
|--------|--------------------|--------|--|-----------------|---------|----------|
| | Width | Height | Depth | Flue Dia | Kw | L/Sec |
| MX2828 | 2685 | 2775 | RE-FLEX work area is made up of 1950mm modules that retract back to 350mm. | 710mm (28") | 1.1 | 4170 |
| MX3828 | 3580 | 2775 | | 710mm (28") | 2.2 | 5250 |
| MX4828 | 4475 | 2775 | | 800mm (31") | 3.0 | 6700 |
| MX5828 | 5370 | 2775 | | 800mm (31") | 4.0 | 8400 |
| MX3030 | 2970 | 3060 | RE-FLEX work area is made up of 1950mm modules that retract back to 350mm. | 710mm (28") | 2.2 | 5250 |
| MX4030 | 3960 | 3060 | | 800mm (32") | 3.0 | 6700 |
| MX5030 | 4950 | 3060 | | 800mm (32") | 4.0 | 8400 |
| MX6030 | 5940 | 3060 | | 800mm (32") | 7.5 | 10500 |
| MX7030 | 6930 | 3060 | | 800mm (32") | 7.5 | 10850 |
| MX3040 | 2970 | 4050 | RE-FLEX work area is made up of 1950mm modules that retract back to 350mm. | 800mm (32") | 3.0 | 6700 |
| MX4040 | 3960 | 4050 | | 800mm (32") | 4.0 | 8400 |
| MX5040 | 4950 | 4050 | | 800mm (32") | 7.5 | 10500 |
| MX6040 | 5940 | 4050 | | 800mm (32") x 2 | 3.0 x 2 | 6700 x 2 |
| MX7040 | 6930 | 4050 | | 800mm (32") x 2 | 4.0 x 2 | 8400 x 2 |

Note: Special sizes and configurations are readily available upon request.

WHAT'S INCLUDED WITH A MASTRE-FLEX SPRAY BOOTH?

- Sturdy steel framed construction ensuring your unique requirements are met every time!
- Durable powder coated finish
- Approved filtration system
- Airflow throughout entire work area
- Switchboard complete with purge system
- Designed and manufactured to meet the current Spray Booth Standards – AS4114
- Clear flame retardant anti-static (FRAS) sheeting
- 12 month warranty
- Over 30 years spray booth manufacture experience
- Comprehensive instruction manual
- Australia wide technical support, sales and service
- Australia wide Toll free phone number 1800 190 190



NIAGARA

WATER WASH

SPRAY BOOTHS

The Water Wash Spray Booth remains the complete solution to overspray filtration with a full height water curtain which continually captures airborne particles.

FAQ's

What is a Water Wash extraction system?

The NIAGARA Spray Booth System utilises a High-Vacuum Exhaust Fan to draw air and water up through a series of internal ducts that create a 'water turbulence' that washes the extracted air of any particle. The water is then dropped out in the head of the Extraction Plenum and flows down the front of the plenum to produce a water curtain, and cascading filter wall.

When would I need a Water Wash Booth?

The NIAGARA Spray Booth System will capture both wet and dry particles making it not only suitable for paint, but also powdercoating, sanding, grinding and any dust extraction application. They are also ideal where high levels of overspray may be present, so they may be a requirement in some instances. Talk to your expert BlastOne representative to clarify your requirements.

What sizes do booths come in?

NIAGARA Spray Booths are also made from Modular Systems, so most sizes are available. However, they are not made higher than 3.0mH so talk to your expert BlastOne representative to clarify your requirements.

Are they difficult to assemble?

The NIAGARA Spray Booth Plenum is fully fabricated in the workshop and the work area simply mounts off the front. However, they must be level and suitable handling equipment is needed for installation.

Do they come with a Single-Phase Motor?

Due to the required capacity of the motor, Single Phase Fans are NOT available.



Have a question about our spray booths?

Talk to our technical team who can provide advice on a suitable spray room solution for your work area.

NIAGARA

WATER WASH SPRAY BOOTH



The NIAGARA Water Wash Spray Booth System remains the complete solution to overspray filtration. The filter system consists of a full height water curtain which continually captures the airborne particles and sends them through second-stage water turbulence.

All components and work area are constructed from strong, durable materials resulting in a long-lasting, modular and low maintenance piece of equipment.

Because of the versatility of this design these booths have been used for spray painting, powder coating, stone and metal grinding to name few.

FEATURES OF THE NIAGARA

DOUBLE WATER CURTAIN

The NIAGARA design has improved conditions for the operator with the addition of a second extraction slot within the operator breathing zone. This new slot provides a more even flow through the booth in the areas that is most needed.

REDUCED MAINTENANCE

The NIAGARA Water Wash Booth is a pump-less system without filters, screens and nozzles. Access for cleaning is from the front of the booth via removal of the water walls and the eliminator doors. No tools are required and in most cases the operation can be performed by one person.

BETTER WATER WASHING

The first point of filtration occurs at the full width suction slots in the water wall – one (1) in the operators breathing zone and one (1) at the water line. The second point of filtration occurs in the entrainment (or water washing) ducts. These ducts located behind the water wall, are specially designed to remove airborne particles from the airstream. The third stage of filtration takes place within the booths header chamber where the last of the water is removed from the exhausting airstream.

LONGER WORKING LIFE

The NIAGARA Water Wash Spray Booth is constructed entirely from minimum 1.0mm thick galvanised sheet-metal. This inhibits the spread of corrosion, makes for sturdy construction, and thus reduces any downtime due to maintenance.

EASE OF INSTALLATION

The booth, subject to your individual requirements, can be supplied as a completed unit requiring only the fitting of the fan, flue, sheet metal work area and connection to the power and water supply.

INSTRUCTION AND MAINTENANCE MANUAL

Every Spray Booth is supplied with a comprehensive instruction and maintenance manual including a service with all replacement parts.

BENEFITS

- Galvanised sheet metal construction throughout the work area and water scrubbing chamber.
- Simple screw-together work area.
- One piece fan and bend manufactured from mild steel with a painted finish both inside and outside with extra waterproofing to the inside.
- Standard air volumes through the open face spray booths are based on a minimum 0.5m/sec (100fpm) across the open face of the booths work area.
- Make-up water tank installed to the spray booths water tank (either side). The make-up tank is fitted with a standard ½" fitting (for connection by others).
- Split water wall with two extraction slits eliminating over spray from entering the booth's water scrubbing chamber without first being washed.
- Uniform air movement across the face of the booth due to the angled roof of the booth and twin extraction points.
- Extensive range of standard sizes to suit almost all applications, non-standard booths available on request.
- All NIAGARA booths meet or exceed the current Australian Standards for design, manufacture and installation.
- All equipment is covered under warranty for a period of 12 months against faulty materials, poor workmanship or inadequate design.

WATER WASH SPRAY BOOTH

SPECIFICATIONS

| MODEL | INSIDE (WORK AREA) | | EXHAUST FAN | | |
|-------|--------------------|----------------------------------|----------------------------------|------|-------|
| | Width | Depth | Flue Dia | Kw | L/Sec |
| N47 | 1220 | Any depth in increments of 990mm | 18" | 4.0 | 13.2 |
| N67 | 1830 | | 18" | 4.0 | 1954 |
| N87 | 2240 | | 21" | 5.5 | 2605 |
| N107 | 3050 | | 24" | 7.5 | 3256 |
| N127 | 3660 | | 24" | 7.5 | 3907 |
| N147 | 4270 | | 30" | 11.0 | 4558 |
| N167 | 4880 | | 30" | 11.0 | 5209 |
| N48 | 1220 | | Any depth in increments of 990mm | 18" | 4.0 |
| N68 | 1830 | 21" | | 5.5 | 2233 |
| N88 | 2440 | 21" | | 5.5 | 2977 |
| N108 | 3050 | 24" | | 7.5 | 3721 |
| N128 | 3660 | 30" | | 11.0 | 4465 |
| N148 | 4270 | 30" | | 11.0 | 5209 |
| N168 | 4880 | 30" | | 11.0 | 5954 |
| N49 | 1220 | Any depth in increments of 990mm | | 18" | 4.0 |
| N69 | 1830 | | 21" | 5.5 | 2512 |
| N89 | 2440 | | 24" | 7.5 | 3349 |
| N109 | 3050 | | 24" | 7.5 | 4186 |
| N129 | 3660 | | 30" | 11.0 | 5024 |
| N149 | 4270 | | 30" | 11.0 | 5861 |
| N169 | 4880 | | 30" | 15.0 | 6698 |

WHAT'S INCLUDED WITH A NIAGARA WATER WASH SPRAY BOOTH?

- Water wall with water scrubber
- 1.0mm thick galvanised sheet metal work area
- 1.0mm thick galvanised exhaust duct & cowl
- Computer designed and punched for accurate assembly
- Designed and manufactured to meet the current Spray Booth Standards – AS4114
- Single panels up to 5.0m long
- 12 month warranty
- Over 30 years spray booth manufacture experience
- Comprehensive instruction manual
- Australia wide technical support, sales and service
- Australia wide Toll free phone number 1800 190 190

NIAGARA

WATER WASH SPRAY BOOTH



OPEN FACED WATER WASH BOOTH USED FOR
STONE MASONRY WORK



OPEN FACED WATER WASH BOOTH USED FOR
HIGH VOLUME FURNITURE PAINTING



OPEN FACED WATER WASH BOOTH USED FOR GRINDING APPLICATIONS



We have found it very efficient on power usage, easy to maintain and production output has greatly increased. The whole system works a treat! We are looking to the future and planning the next stage.



MANAGING DIRECTOR, TASMAN STEEL GRIT CLEANING,
NEW SOUTH WALES, AUSTRALIA



MASTERFLO 2018 40L





MASTERFLO **HEATED SPRAY BOOTHS/ CURING OVENS**

The ultimate in surface finish and production is a MASTERFLO Spray Booth/Curing Oven that can give you the same working environment every day regardless of time or season.

Backed by our in-house engineering team, a large range of options and configurations are available to suit your specific needs.

FAQ's

What sizes do curing oven spray booths come in?

MASTERFLO Positive Pressure/Temperature Controlled Spray Booths are custom made to your specific requirements and to suit the workpieces and production flows of the particular facility. From the tips on [page 1](#), calculate what size you need and/or talk to a consultant.

How are they heated?

A number of different energy sources can be used to heat a spray booth. These range from gas, electricity or diesel. The most efficient and commonly used medium is gas.

- a. **Gas** (either natural or LPG) is the most economical heating medium. The heating is provided by a burner which can transfer heat to the incoming air via a Direct or Indirect design. Direct burners are the most efficient.
- b. **Electric burners** are convenient if a constant supply is available at very low cost. However, they are more costly to manufacture and are slower to come up to temperature.
- c. **Diesel burners** are also feasible if a reliable and cost-effective supply is available. However, this is often a challenge and consequently they are not well serviced, or commonly used.

How do I control humidity?

Humidity is 'Relative Humidity'; this means it is relative to the temperature. Therefore, under most normal climatic conditions the high RH is adjusted by increasing the temperature, which is easily done by including a burner in the design. *See previous question.*

If the next level of control is required then a humidifier/de-humidifier system can be included in the design.

Can they be built fully above ground?

There are two (2) types of Airflow Designs that can be built without any in-ground works:

- a. **Semi-Down Draft:** This design is for Stop-End Booths whereby the booth is exhausted through the rear wall and replacement air enters through the ceiling at the front. This produces a horizontal airflow direction.
- b. **Side-Down Draft:** This design is for both Stop-End and Drive-Thru Booths whereby the booth is exhausted through the lower section of the side walls and replacement air enters through the centre of the ceiling. This produces a vertical airflow direction.

NOTE: Full Down Draft designs require either an in-ground Pit or an Elevated Floor.

Do they comply to Australian Standards – AS4114?

They comply in every respect, including design, materials and manufacture. However, the installation and maintenance also needs to be carried out in accordance with AS4114, and this is the responsibility of the owner/operator.

Are they available as in kit form?

Due to the complexities involved in design and configuration of the ventilation system including the temperature control system, balancing the airflow and controlling spray and bake modes, BlastOne only supplies these designs as a turnkey project.



Have a question about our spray booths?

Talk to our technical team who can provide advice on a suitable spray room solution for your work area.

MASTERFLO

SPRAY BOOTH/CURING OVENS



MODULAR CONSTRUCTION

Our modular and versatile designs allow for a large range of configurations which means installing the spray booth that is perfectly suited to your application has never been easier.

RANGE OF CONFIGURATIONS

Our range of airflow systems means you can easily configure the booth to suit your work pieces and workflow. Booths can be made for large or small components with end or side access, or as drive-through. This allows for added efficiency and production opportunities.

SPACE SAVING DESIGNS

The MASTERFLO booths take up the least footprint with all machinery mounted on the roof where possible. This enables the best use of floor space whilst keeping all serviceable components readily accessible.

The unique MASTERFLO door design enable the doors to be folded flat against the booth which in turn provides the maximum free space at the entrance. It's little things like this that make working with a MASTERFLO so much more enjoyable!

SIMPLE INSTALLATION

With the innovative designs offered by MASTERFLO most spray booths can be installed directly onto the concrete floor of your workshop making on-site time quick and simple. It also makes any relocation an easy process.

LONG WORKING LIFE

Developed through experience, our fittings, equipment and machinery has been refined to provide a long service life for a demanding industry. With an emphasis on ease-of-maintenance you are guaranteed a high-performing facility for many years.



SEMI DOWN-DRAFT SPRAY BOOTH/CURING OVEN



SIDE DOWN-DRAFT SPRAY BOOTH/CURING OVEN



Case Study #1



Spray booth for earthmoving equipment production

Hitachi Australia, one of Australia's leading earthmoving machinery manufacturers, required a spray painting facility that would be operational all day, every day, and with the versatility of handling anything from small parts to completely assembled equipment.

The booth needed to be easily accessible and operate compliantly near the main workshops.

The BlastOne Design & Engineering Team were engaged to install and commission this temperature controlled spray booth that includes integration with the workshop building, as well as a centre dividing door that can split the booth into two independently operated workareas. Complete with adjoining Paint Mixing and Storage Rooms this facility is the optimum in high quality spray painting.

Case Study #2

Large spray booth with roof access for overhead handling

When this Mining Equipment manufacturer needed a Painting Booth with special requirements BlastOne was their choice to make it happen. The complexities of a Positive Pressure and heated workarea needed to be coupled with large front and roof access. All this, as well as keep the whole construction under the overhead crane system and be Australian Standards compliant.

Being situated inside the main workshop also meant the noise output levels needed to be kept to a minimum.

BlastOne's Design & Engineering Team worked to produce this totally fit-for-purpose Spray Booth that includes Large Hinged Roof Panels, a Semi-down Draft Airflow System that runs from back to front, Silenced Fans, LED Lighting, Door Interlocks and an Adjoining Paint Prep Room. All while meeting or exceeding every detail of AS/ NZS 4114.





MASTERFLO PAINT MIXING ROOMS

An enclosed and ventilated work room is the ideal way to ensure your paint is mixed and measured accurately, and therefore providing the right ingredients for the perfect paint job.

The MASTERMIX Paint Mixing Room is versatile and adaptable and can be attached to any painting facility to enhance production and compliment compliance.

FAQ's

Why would I install a Paint Mixing Room?

A Paint Mixing Room provides a clean and enclosed environment for the preparation of paint prior to spraying it onto the job – (mixing, thinning, tinting, straining etc). It can also provide a confined and tidy workarea for spray equipment clean-up and servicing.

What is different or unique about a Paint Mixing Room?

A Paint Mixing Room is a Hazardous Zone so it needs ventilation and interlocking to ensure it is a safe area to work. Although ventilation is imperative, the capacity required is much less than a spray booth.

Do they comply to Australian Standards – AS/NZS 4114?

A Paint Mixing Room needs to comply to AS/NZS 4114 in every respect, including design, materials and manufacture, and are very similar to Spray Booths.

What special considerations are there with Paint Mixing Rooms?

1. The lighting is interlocked with the Exhaust Fan to ensure nothing happens inside without the Exhaust System operating.
2. It is recommended a Paint Mixing room adjoins a Spray Booth to enable direct access from one to the other. This ensures the clean environment can be maintained and contained. However, it is still necessary to have an access door for external access and emergency escape.



Have a question about our spray booths?

Talk to our technical team who can provide advice on a suitable spray room solution for your work area.





MASTERFLO **SHIPPING CONTAINER** **SPRAY BOOTHS**

By far the easiest way to set up a spray painting facility on site is to utilise a MASTERFLO Container Spray Booth. These are a complete 'Plug-and Play' unit that is simply and easily setup wherever painting is needing to be done. And the unique design ensures they are ready and able to relocate when required.

MASTERFLO CONTAINER SPRAY BOOTHS

CLICK HERE FOR A VIRTUAL TOUR
OF OUR CONTAINER SPRAY BOOTH



Container spray booths are the ideal solution on Plant, Refinery or Infrastructure Maintenance Projects for all those movable components that need a coat of paint.

This 100% self-container plug-and-play unit can be delivered to site on a tilt tray truck or side-loader and be operational within minutes.

Available in both 20'L (6.0m) or 40'L (12.0m) containers and either Standard 8'H (2.4m) or hi-cube 9'H (2.7m) they instantly become a complying spray booth. Simply connect 3-phase power and compressed air and it's ready to use.



CONTAINER SPRAY BOOTH SPECIFICATIONS

| MODEL | Ext. Width | Ext. Height | Ext. Length | Int. Width | Int. Height | Int. Length |
|--------|------------|-------------|-------------|------------|-------------|-------------|
| MF20C | 2.4m | 2.6m | 6.1m | 2.35m | 2.4m | 4.9m |
| MF20CH | 2.4m | 2.9m | 6.1m | 2.35m | 2.7m | 4.9m |
| MF40C | 2.4m | 2.6m | 12.2m | 2.35m | 2.4m | 10.8m |
| MF40CH | 2.4m | 2.6m | 12.2m | 2.35m | 2.4m | 10.8m |



CONTROL CUBICLES

Control cubicles must be installed to all spray booths to conform to Australian Standards AS/NZ 4114.

FAQ's

What does the Control Cubicle do?

The Control Cubicle (CC) has a number of main functions.

- a. It interlocks the operations of the Spray Painting Equipment with the Exhaust Fan to ensure Spraying cannot be carried out without the correct Ventilation.
- b. It controls a Pre-Purge Mode which proves the Ventilation System is operating correctly before the Spraying process can start.
- c. It controls a Post-Purge Mode which evacuates all Volatile and Toxic Fume before it shuts down.
- d. It includes a Fault Alarm System to alert the Operator of any malfunction and shut down the Spraying operation.

Do I need a Control Cubicle?

A Spray Booth or Filter Wall system is not compliant to AS/NZS4114 unless the functions a Control System offers is included.

How many Control Cubicles are required for any System?

- a. Spray Booths: For Spray Booths only One (1) x Control Cubicle is required regardless of how much Equipment is included.
- b. Filter Wall Systems: For Filter Wall Systems it may be more practical to control them in sets. We recommend having a maximum of Four (4) x Filter Walls in One (1) System. This will be assessed on an individual situation basis.

Can they be Retro-Fitted onto an existing Spray Booth?

There would need to be a thorough review of the existing System to clarify but generally it can be done. Other factors will need to be clarified to assess whether this brings the Spray Booth into line with current Australian Standards requirements.



Have a question about our Control Cubicles?

Talk to our technical team who can provide advice on a suitable solution for your work area.

CONTROL CUBICLES

To comply with Australian Standards AS/NZ 4114, control cubicles must be installed to all spray booths.

Control Cubicles are installed to a spray booth for safety reasons, as they perform the following functions:

- An electrical solenoid connected into the booth's compressed air line stops the operator / painter from spraying any product inside of the booth until such time that the air flow / exhaust fan speed is high enough for any waste product to be removed from the workspace. This is known as the pre-purge phase.
- Timers incorporated into the control cubicle will not allow the fans to shut off until they have removed all over-spray and fumes that are still within the booth. This is known as the post-purge phase.

- When the booth is switched off the compressed air supply to the spray gun(s) is closed off stopping the painter from spraying. (As the air within the booth is being purged).
- All electrical supplies to the booth are also switched on and off via the control panel. A main switch will shut down the complete system if required.
- Fault lights and alarms fitted alert the operator to any malfunction giving peace of mind that everything is covered.
- A printed circuit diagram is always included inside every switchboard (as well as in the operation manual) ready for the electrician if required.



CONTROL CUBICLE WITH EXTERNAL SWITCHES



CONTROL CUBICLE WITH SWITCHES BEHIND WEATHER PROTECTION DOOR



CONTROL CUBICLE FOR 8 FAN SYSTEM



We are very happy with the MASTERFLO System and the filter walls.

Ever since we have installed them, the designated paint area has a much better air quality. The atomised overspray paint is not hanging around and we don't have clouds of mist, especially when painting two pack finish coating. The performance of the system is exceeding our expectation, it worked trouble free for the last 5 years and is practically maintenance free.

As a summery, we are very happy with the product and BlastOne as the supplier. Their intimate knowledge of paint booth design, helpful approach and general very good professional customer service helped making this project a very successful undertaking.

I have no reservation to recommend their product to anyone in the industry.

PRODUCTION DIRECTOR
INDUSTRIAL CONVEYING (AUST) PTY LTD, WESTERN AUSTRALIA





PAINT STORAGE CABINETS

There is nothing more convenient than to be able to store all the product you need close to hand.

A Paint Storage Cabinet is a portable and easily-relocatable holding unit that has been specially design for this application.

A large range of sizes and options are available.

PAINT STORAGE CABINETS

Our range of safety cabinets are the most user friendly and space efficient available today and are the superior design alternative to traditional compliance methods.

The innovative designs are available to suit every storage situation safely and efficiently to Australian standards.

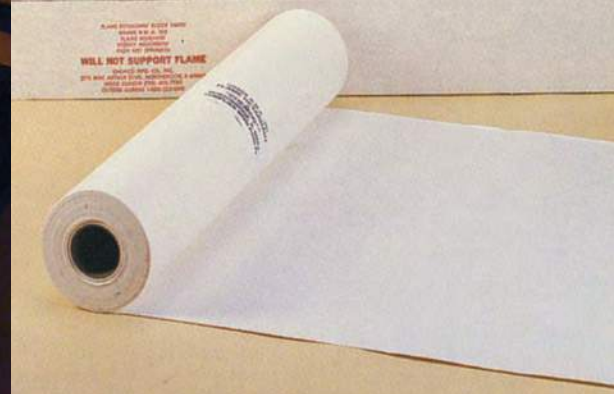
Suitable for a wide range of demanding environments such as mining, defence, heavy engineering shops, airport facilities, port facilities and more.

- Individually self closing and latching doors
- Independently adjustable shelving
- Dual compartments with separate spillage sumps
- Built-in vents with flash arrestors
- State-of-the-art powder coat finish for high durability and performance



PAINT STORAGE CABINET SPECIFICATIONS

| MODEL | DIMENSIONS | | | WEIGHT | MAXIMUM CAPACITY | SHELVES (including base level) | |
|----------|------------|--------|-------|--------|------------------|--------------------------------|-------|
| | | Height | Width | | | | Depth |
| PS080 | Ext. | 1100 | 784 | 454 | 65kg | 80L | 2 |
| | Int. | 858 | 700 | 365 | | | |
| PS160 | Ext. | 1100 | 784 | 804 | 91kg | 160L | 2 |
| | Int. | 858 | 700 | 718 | | | |
| PS161 | Ext. | 1100 | 1384 | 454 | 98kg | 160L | 2 |
| | Int. | 858 | 1300 | 365 | | | |
| PS250 | Ext. | 1250 | 1166 | 804 | 132kg | 250L | 2 |
| | Int. | 1008 | 1082 | 718 | | | |
| PS251 | Ext. | 1880 | 806 | 804 | 143kg | 250L | 3 |
| | Int. | 1608 | 726 | 726 | | | |
| PS251SS | Ext. | 1880 | 806 | 804 | 143kg | 250L | 3 |
| | Int. | 1608 | 726 | 726 | | | |
| PS450SS | Ext. | 1880 | 1386 | 804 | 220kg | 450L | 6 |
| | Int. | 1608 | 1302 | 718 | | | |
| PS650SS | Ext. | 1880 | 1986 | 804 | 295kg | 650L | 3 |
| | Int. | 1608 | 1902 | 718 | | | |
| PS850SS | Ext. | 1880 | 2584 | 804 | 375kg | 850L | 6 |
| | Int. | 1608 | 2500 | 718 | | | |
| PS1000SS | Ext. | 1610 | 1384 | 1386 | 255kg | 850L | 2 |
| | Int. | 1330 | 1300 | 1300 | | | |



FILTERS AND CONSUMABLES

BlastOne stocks replacement filters and consumable products for all types of spray booths.

FILTERS AND CONSUMABLES

BlastOne supplies a full range of high quality filters and consumables for your spray booth and support a wide range of applications.



PLEATED PAPER FILTER MEDIA

- High efficiency (large surface area), wet-spray application filter
- Velocity-trap design maintains the air flow even when the filter becomes caked with overspray
- Concertina pleated for compact supply and disposal
- Various styles and dimensions available



FIBERGLASS FILTER MEDIA

- Conventional filter media, fire resistant
- Multi-layers of fiberglass mesh trap overspray particles
- Peel away the surface layer mesh fibers when overspray builds up
- Various styles and dimensions available



AIR INTAKE FILTERS

- Filters air coming into paint booth
- Captures airborne particles and prevents them entering work area
- Ensures a dust free finish
- Housed in an easy-to-change retaining frame



FLAME RETARDANT SPRAY BOOTH FLOOR COVERING

- Roll-out, protective floor covering
- Enables fast and easy spray booth cleanup – no scraping, stripping or rubbing
- White colour helps to improve spray booth visibility
- Various roll widths and strengths available



PEELABLE SPRAY BOOTH WALL COATING

- Spray-On, Peel-Off wall coating
- Simplifies spray booth clean up – peel overspray covered coating off the wall and apply a fresh coating
- White coating for walls improves spray booth visibility
- Clear coating for windows, lights and retractable spray booth wall sheeting

DISCLAIMER: The performance characteristics provided in this brochure only serves as a guide and that the results can vary widely on every project. Let BlastOne assist you on using the right abrasive and the right equipment for every project.

While care has been taken in compiling these notes, no responsibility is accepted by the compiler for any damage or loss, caused to anyone or any company accepting the advice or suggestion contained herein. It is your responsibility to be aware of regulations which Local, State, or Federal Government authority may impose.

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