

CAST POLYMER OPERATIONS AIR GENERAL PERMIT REGISTRATION FORM

Part II. Notification to Permitting Office

(Detach and submit to appropriate permitting office; keep copy onsite)

Instructions: To give notice to the Department of an eligible facility's intent to use this air general permit, the owner or operator of the facility must detach and complete this part of the Air General Permit Registration Form and submit it to the appropriate Department of Environmental Protection or local air pollution control program office which has permitting authority. Please type or print clearly all information, and enclose the appropriate air general permit registration processing fee pursuant to Rule 62-4.050, F.A.C. (\$100 as of the effective date of this form)

0112686-002

Registration Type

Check one:

INITIAL REGISTRATION - Notification of intent to:

- Construct and operate a proposed new facility.
- Operate an existing facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit).

RE-REGISTRATION (for facilities currently using an air general permit) - Notification of intent to:

- Continue operating the facility after expiration of the current term of air general permit use.
- Continue operating the facility after a change of ownership.
- Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C., or any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.

Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only

If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. In such case, check the first box, and indicate the operation permits being surrendered. If no air operation permits are held by the facility, check the second box.

- All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s): 0112686
- No air operation permits currently exist for this facility.

General Facility Information

Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)

Bruce Johnson / Splash Technologies, Inc

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.)

Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)

Street Address: 1342 S. Powerline Rd

City: Deerfield Beach

County: Broward

Zip Code: 33442

Facility Start-Up Date (Estimated start-up date of proposed new facility.) (N/A for existing facility)

N/A

Owner/Authorized Representative

<u>Name and Position Title</u> (Person who, by signing this form below, certifies that the facility is eligible to use this air general permit.) Print Name and Title: <u>James M. Prendergast VP Operations</u>		
<u>Owner/Authorized Representative Mailing Address</u> Organization/Firm: <u>SPLASH Technologies</u> Street Address: <u>1342 S. Powerline Rd</u> City: <u>Deerfield Beach</u> County: <u>Broward</u> Zip Code: <u>33442</u>		
<u>Owner/Authorized Representative Telephone Numbers</u> Telephone: <u>954-429-8565</u> Fax: <u>954-429-8246</u> Cell phone (optional):		

Facility Contact (If different from Owner/Authorized Representative)


<u>Name and Position Title</u> (Plant manager or person to be contacted regarding day-to-day operations at the facility.) Print Name and Title: <u>SAME</u>		
<u>Facility Contact Mailing Address</u> Organization/Firm: Street Address: City: County: Zip Code:		
<u>Facility Contact Telephone Numbers</u> Telephone: Fax: Cell phone (optional):		

Owner/Authorized Representative Statement

This statement must be signed and dated by the person named above as owner or authorized representative

I, the undersigned, am the owner or authorized representative of the owner or operator of the facility addressed in this Air General Permit Registration Form. I hereby certify, based on information and belief formed after reasonable inquiry, that the facility addressed in this registration form is eligible for use of this air general permit and that the statements made in this registration form are true, accurate and complete. Further, I agree to operate and maintain the facility described in this registration form so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof.

I will promptly notify the Department of any changes to the information contained in this registration form.

Signature:  Date: 7/7/09

Material Usage Rates

If this is an **initial registration** for a cast polymer operation, provide an estimate, in pounds, of the total quantity of styrene containing materials (resin and gelcoat) expected to be used over a 12-month period. Note: the general permit limits the usage of such material to 284,000 pounds (142 tons) in any consecutive 12-months.

If this is a **re-registration** for a cast polymer operation, provide the highest 12-month total quantity, in pounds, of styrene containing materials (resin and gelcoat) used in the last five years. Indicate the 12-month period over which this usage occurred.

2006 , ~~approx~~ ^{During 12 month period} 95,000 lbs (190 drums (Fiberglass Resin))

Description of Facility

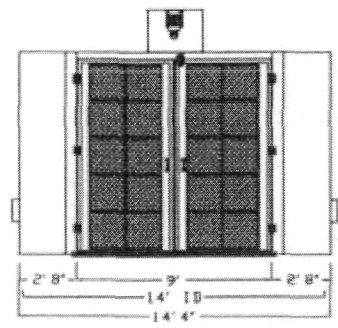
Below, or as an attachment to this form, provide a description of the cast polymer operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used.

CAST molding, pouring fiberglass resin into silicone molds.

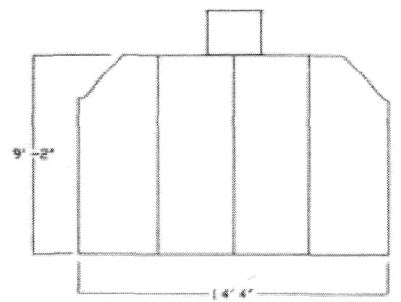
Spraying of urethane, laquer sealers

work done inside spray booth

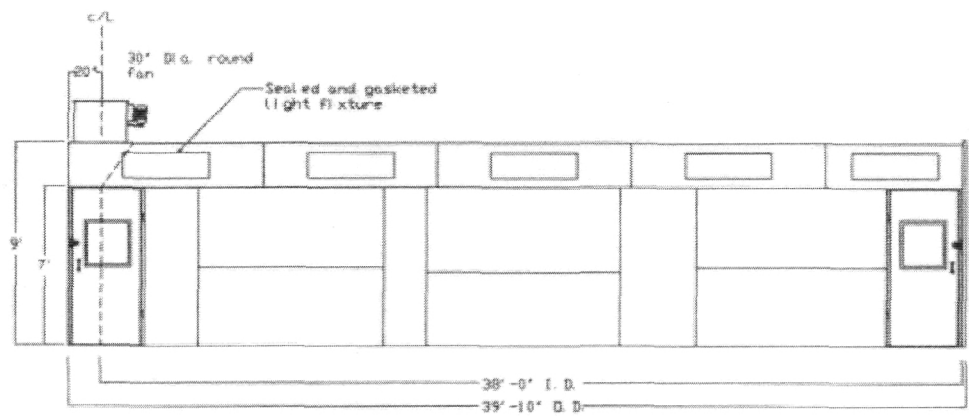
MANUFACTURED OF:
TABLE TOPS



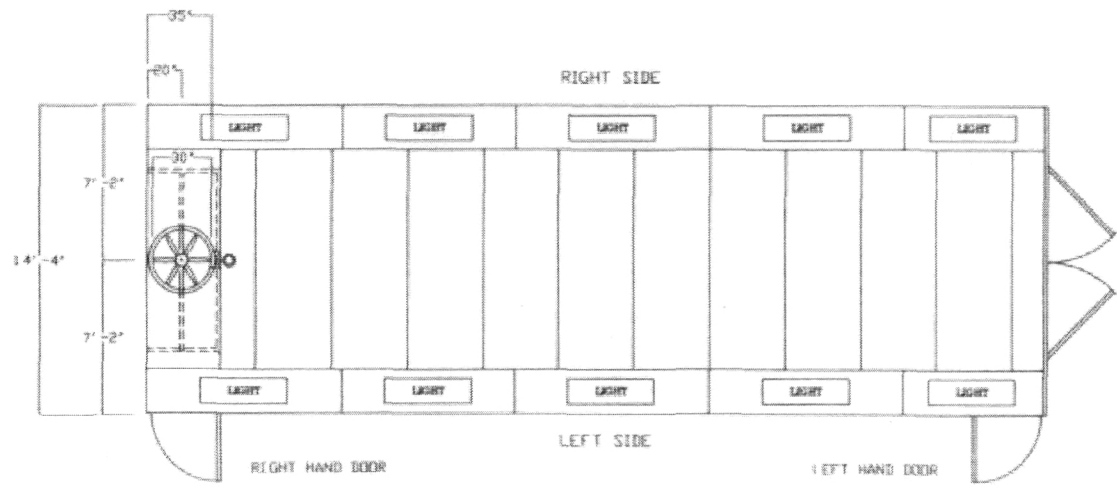
FRONT VIEW



REAR VIEW



SIDE VIEW



TOP VIEW

ELECTRICAL REQUIREMENTS		
(1) 4-TUBE LIGHTS	120/277 VOLT	1 AMP PER FIXTURE
(1) 5HP FAN MOTOR 3 PH	208-230/460 VOLT	17.0-18.7/8.5 AMPS
OPTIONAL SINGLE PHASE	220 VOLT	36 AMPS

MECHANICAL DATA	
(1) 30" TUBE AXIAL FAN	16,150 C.F.M.
(1) MANOMETER GAUGE	1/4" nut and bolt
(1) AIR SOLENOID	FAN HEIGHT 24"

- ### SPECIFICATIONS
- ALL PANELS CONSTRUCTED WITH 18 GAUGE GALVANIZED STEEL WITH PANEL FLANGES ON OUTSIDE OF UNIT
 - BASE OF UNIT MOUNTED ON GALVANIZED FLOOR RAILS
 - ACCESS DOOR LOCATED ON EITHER CORNER OF THE UNIT
 - INSIDE PANEL SEAMS ARE SMOOTH
 - BASE OF DOORS SEALED WITH NEOPRENE STRIPS
 - LIGHT FIXTURES MOUNTED ON CLEAR TEMPERED GLASS
 - VENT LATCHES ON DOORS
 - (16) 20" X 20" X 2" PAINT ARRESTORS
 - (20) 20" X 20" X 2" INTAKE MEDIA
 - UNIT FACTORY BUILT TO MEET OR EXCEED BOCA, OSHA & NFPA-33
 - BASE OF UNIT MOUNTED TO CONCRETE WITH 3/8" X 1-1/2" EMBEDDED WEDGE ANCHORS 42" O.C.
 - DIMENSIONS I.D. 14'-0" W X 38'-0" D X 9'-0" H
DIMENSIONS O.D. 14'-4" W X 39'-10" D X 9'-2" H

Style: FRONT AIR FLOW
 Series: BASIC
 Model: BFAF40-15L

Marathon
 Finishing Systems, Inc.
 MarathonFinishing.com

SHOP DRAWINGS
REVIEWED AND APPROVED

SPLASH TECHNOLOGIES
1342 S. POWERLINE RD
DIERFIELD BEACH


THOMAS J. TWOMEY, P.E. # 25628

6/30/03



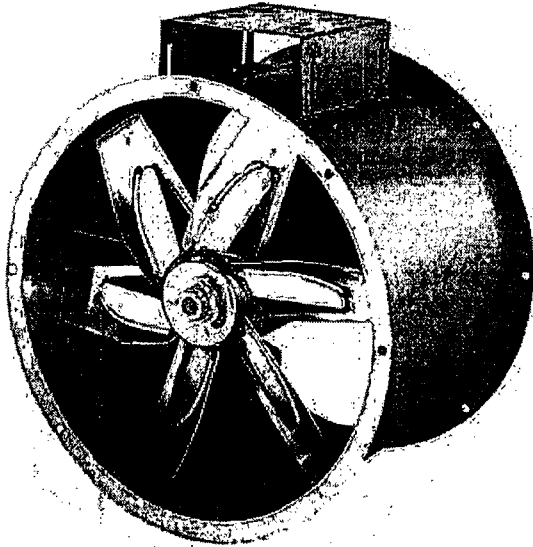
Marathon Finishing Systems, Inc.

Operation and Product Manual

- Basic installation and product use
- Detailed drawings for assembly
- Warranty information
- Scheduled maintenance

Exhaust Fan

Tube Axial Exhaust Fan (TAF)

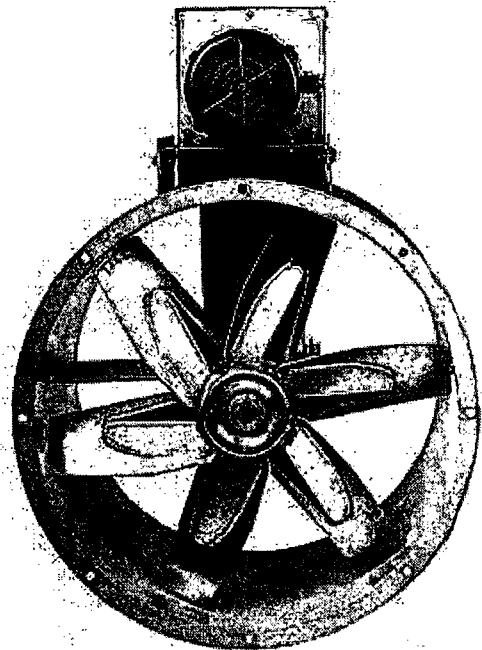


Streamlined belt tunnel isolates the motor, drives, and bearings from the air stream. Designed to operate in any position and utilizes precision balanced, spark-resistant aluminum fan blades. Steel fan housing is finished with an acrylic epoxy finish. Cast iron sheave is installed on fan shaft. Fans may be ordered with drive package that include motor and drives.

Shown with optional belt guard

Max inlet air temperature: 200°F
Permanently lubricated ball bearings
Belt guard included

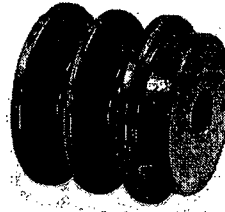
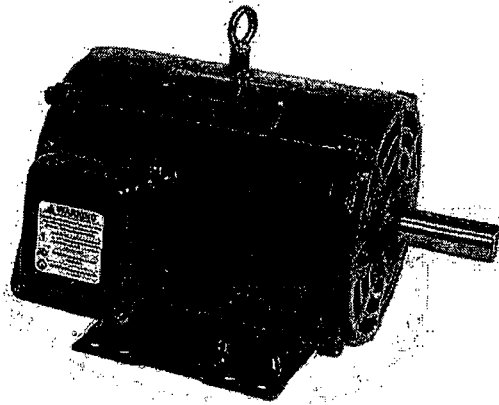
Note: Review OSHA codes. OSHA compliant guards are required when fan blades are exposed and within reach of personnel. Use a hazardous location motor where flammable vapors are present. Dayton Electric Mfg. Co. certifies that the tube axial fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311.



Motor and Drive

Exterior mounted fan motor and pulley

Motor mounts to fan base with supplied hardware

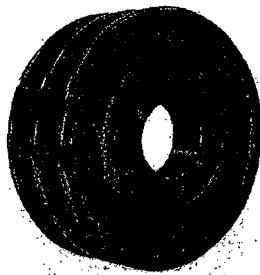


Fixed bore cast Iron 2 groove sheave mounts to motor shaft

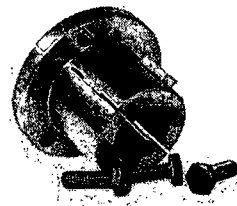
Motor Specifications

Inverter Duty Motor, Open Drip Proof, 1HP through 10HP, 1735 RPM, 208-230/460VAC, NEMA Frame 56 through 215, 1.15 Service Factor, 60 Hz, 84.0 Nominal Efficiency, Rigid Mounting, Double-Shielded Ball Bearings, Steel Frame, Insulation Class F, Ambient 40 C, CW/CCW Rotation, Shaft Diameter 5/8" through 1-3/8".

Open bore pulley

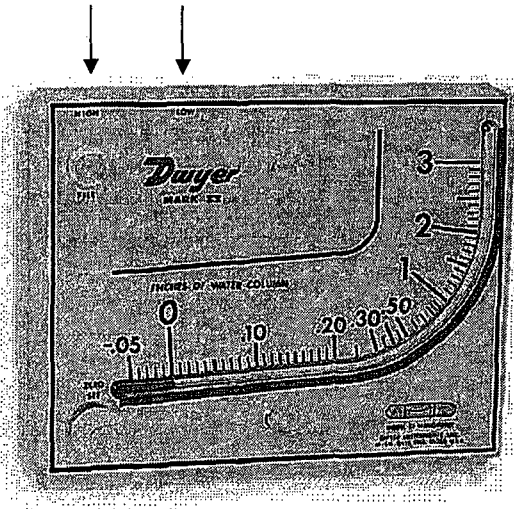


Split taper bushing



Manometer

Manometer Filter Gage



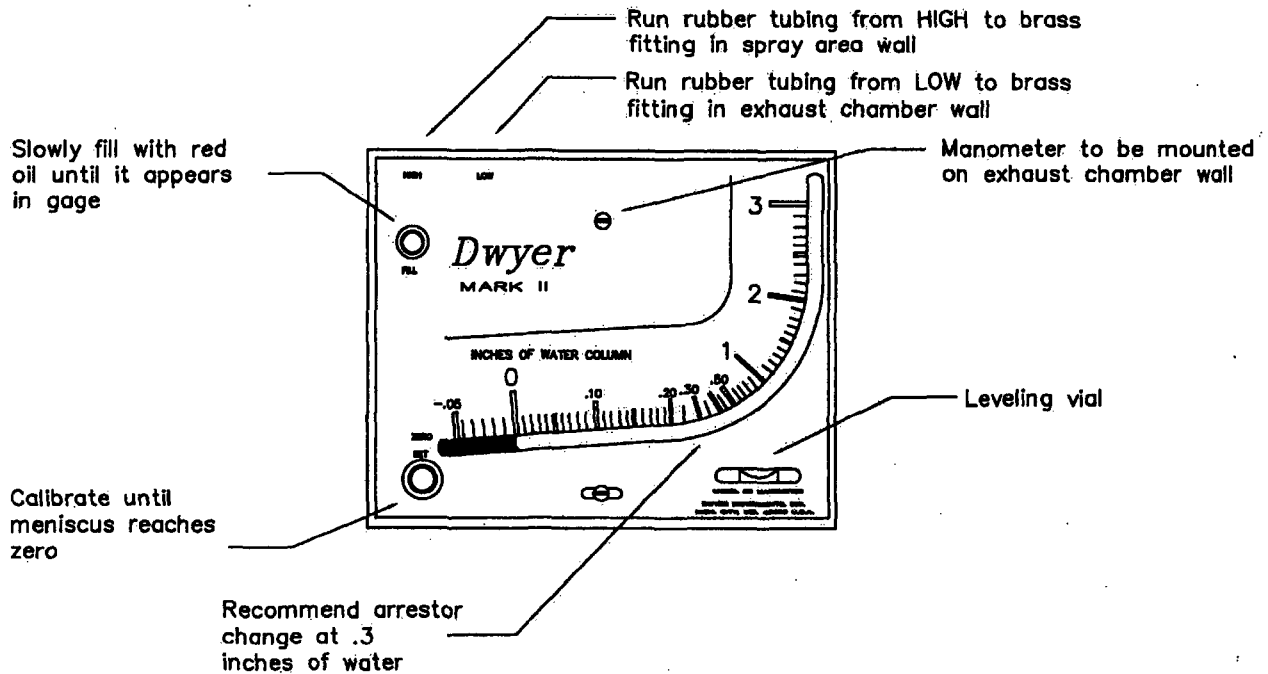
High and Low pressure port

High pressure port connects to "spray area"

Low pressure port connects to "exhaust plenum cavity"

Mounts to side wall of spray booth at exhaust plenum

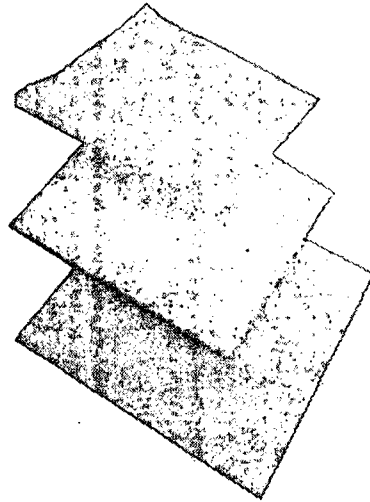
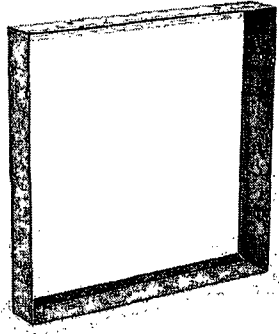
Molded Plastic U Inclined Manometer, Operating Range 0-3 Inches WC, Full Scale Accuracy, Maximum Temperature 140 Degrees Fahrenheit



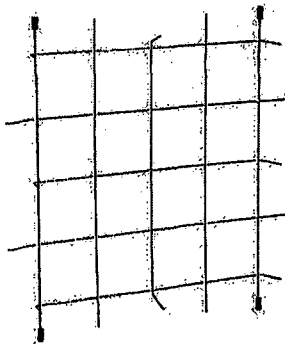
Air Filters

20" x 20" x 2" Paint arrestor filter pads

20" x 20" x 2" Filter cell



20" x 20" Wire grid mounts in filter cell frame 1/8" wire with rubber tips to hold cell in. Each cell uses 2 grids, one in back and one in front of filter pad.



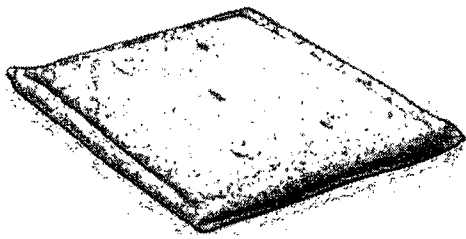
Mounting process

Insert first grid in cell with holders out

Insert paint arrestor filter white side to outside of spray booth

Insert second grid with holders inwards

Intake air filter



20" x 20" x 2" Intake air filter

Mounts in air intake cell

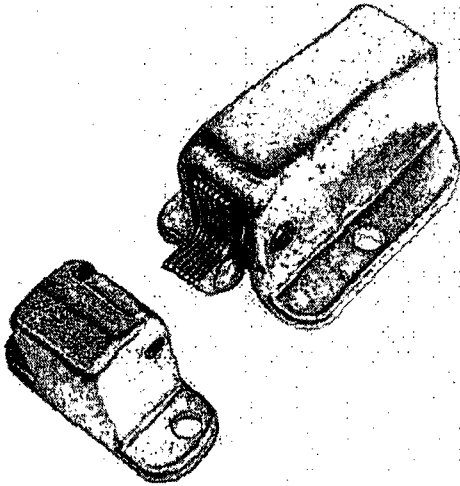
Self sealing perimeter seal

Internal wire retainer built in filter

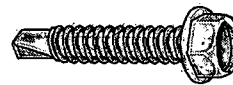
Filter pushes into cell for mounting

Door Hardware

Small and Large Door Latch



Supplied mounting screw



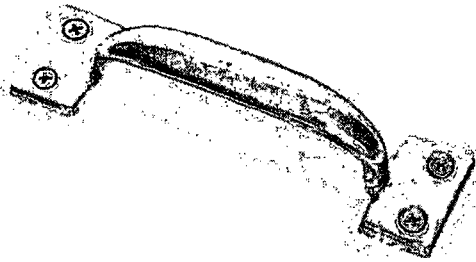
**1/4" Hex washer head screw
mounts latch to front and side
doors**

Small latch mounts to man door

Large latch mounts to main doors

Door latch mounts to spray booth doors with supplied mounting screws. Latch holds door closed. Cast iron construction with 3/8" mounting holes.

Door Handle



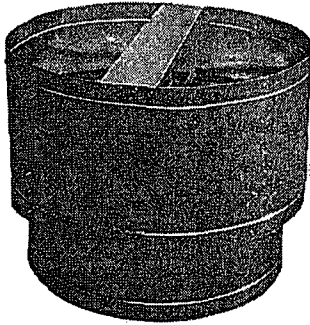
**Handles mount to front and side man
door with supplied metal screws**



**1/4" Phillips oval head screw
mounts handle to doors**

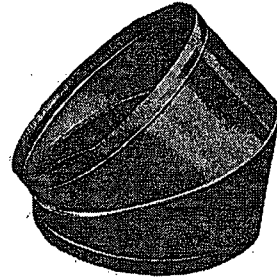
Duct Accessories

Damper weather cap

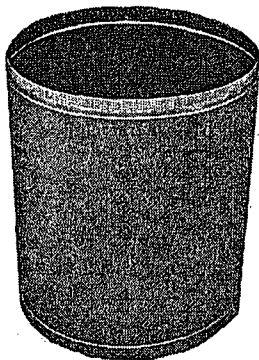


Damper weather cap opens automatic when fan is turned on. Damper mounts above roof line for exhaust air

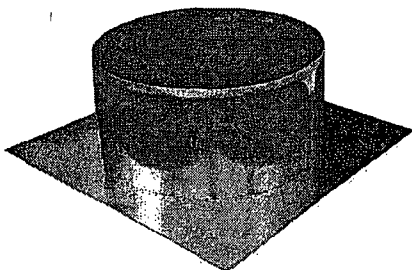
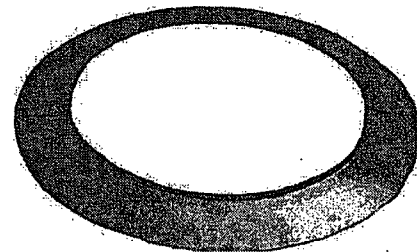
Offset elbow



Counter flashing seals opening in flashing. Mounts to plain duct



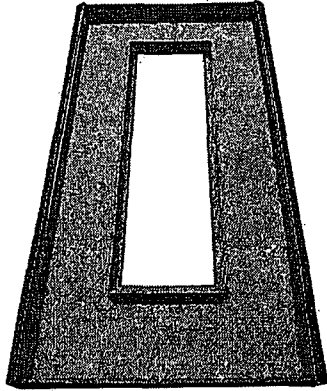
Plain duct joints connect together with crimp and bead. Duct come in 3' or 4' lengths



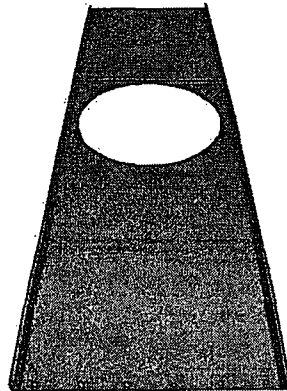
Weather flashing mounts on roof top. Flashing is nailed in place on roof top and sealed with tar

Panels

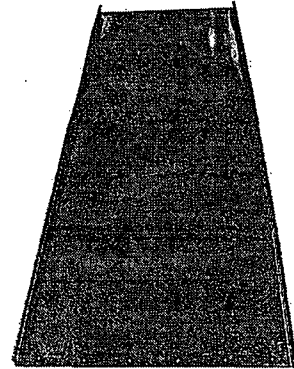
Gable panel with light opening



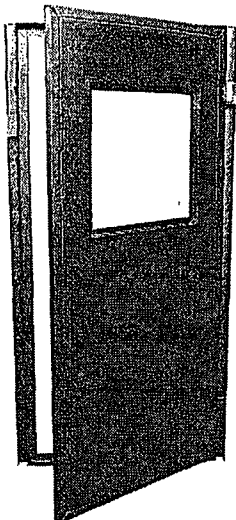
Fan panel with cut out for mounting fan



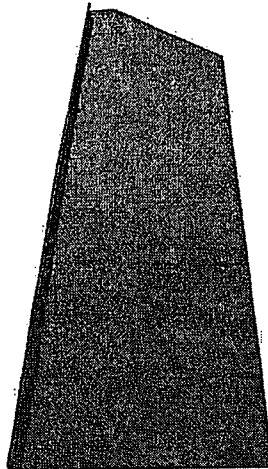
Standard panel for walls or ceiling areas



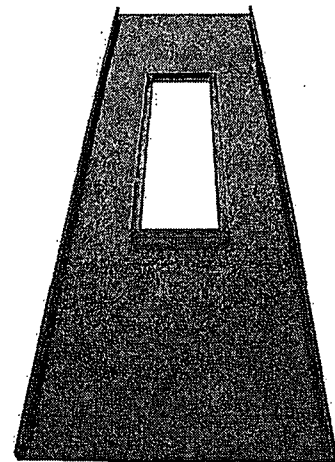
Man access door with view window



Corner panel rear wall gable booth



Standard panel with light opening



General Component Use and Location

Some items are optional and not supplied on all types of spray booths.

Nuts, bolts and screws

Use nuts and bolts to fasten panels and components together. Tighten each nut and bolt securely.

1/4 x 20 Nuts

To bolt panels together. Combine with 1/4 x 20 bolt. 7/16" socket is used.

1/4 x 20-1/2, 3/4 Bolts

To bolt panels together with 1/4 x 20 nuts.

10 x 5/8 small self tapping screws

To mount light fixtures with L brackets. Connecting duct works. Mount wiper rubber brackets at bottom of doors. Mount small miscellaneous brackets or parts. Use a 5/16" drive socket or nut set.

1/4 x 14 x 1 large screws

To mount doors with hinges. Mounting door latches. Mount miscellaneous angles or brackets on spray booth. Use a 3/8" drive socket.

5/16 x 3/4 extra large screws, may come in longer version

Used to mount heavy doors. Mount or attach medium to heavy miscellaneous angles or brackets on spray booth.

Flathead Phillips pan screws

Used as a finish screw in interior of booth. Low profile head will maintain smooth surface in interior of booth. May be used to mount inside service frames.

Caulking

Used as final seal on seams of spray booth panels to prevent air and contaminants from entering the spray booth. Caulking to be applied inside of booth at panel seam only after booth has been erected, cleaned and anchored to floor. Also used to seal lights by caulking the glass from interior of booth. Light glass may also be caulked into holding cell from exterior.

Small door latch

Mounts on small man door to keep door closed. Latch has a spring loaded cam for pull force adjustment. Door opening force has to be less than 15lbf. See detail for mounting instructions.

General Component Use and Location

Large door latch

Mounts onto main doors and holds door closed. Adjust door opening force to less than 15lbf. See detail for mounting instructions.

Manometer

Mounts to side of booth at air exhaust chamber. Manometer is designed to measure the pressure differential between the spray area and an exhaust plenum. Manometers measure the filter's resistance to air flow. The dirtier the filter get the less air it lets through. As spray booth airflow decreases, booth performance diminishes. Manometer should be calibrated to 0 inch WC with the booth running and new clean filters installed. The recommended change point is at .30"WC. See installation instructions.

Pulley (fixed or bush bore)

Mounts on motor as a fixed unit or with taper lock bushing.

Bushing

Mounts to pulley to clamp on to motor shaft. Bushing will match motor shaft diameter. When bolts are inserted through bushing into pulley, the bushing will clamp on to the shaft of the motor. The head of the bushing faces outwards. Tighten the bolts progressively alternating from side to side until they are tightened to manufacturer's specifications.

Belts

Fans are supplied with V type drive belt. Belts should be inspected periodically and changed as needed. Mount per manufacturers guidelines.

Door wiper rubber

Mounts to bottom of door to provide seal. Rubber is held in place with wiper rubber holders. Rubber seals the open space between the bottom of the doors and the floor. See mounting instructions detail.

General Component Use and Location

Chrome handles

Fasten door handles to main entry doors and man doors. Handles mount with special Phillips flat head screws. Handles should be mounted on square tubing frame with Phillips head screws, or bolted through the sheet metal area.

Small foam tape rolls

Main use is to seal or shim observation windows. Do not use as a gasket for lights or light glass.

Large foam tape rolls

Apply foam tape seal on all door jams including main doors and man door. Main use to seal and gasket doors. All areas must be clean and free of oil or grease prior to applying gasket materials.

Tube Axial Fan

The Dayton fan is designed specifically for paint spray booth applications. Fan is belt driven in order to position fan outside of exhaust duct. The motor is mounted on an adjustable base for easy belt tensioning. The fan has an aluminum blade. Fan bearings are sealed and permanently lubricated. Typical mounting location is on top of booth on fan panel. Use 5/16" nuts and bolts to mount fan to fan panel.

Motor

Dayton electric motor is to be mounted on the fan with the supplied hardware. Motor drives the fan blade on the fan. Mount and install motor per supplied fan instructions.

Filters

Paint Arrestor filters

Arrestor filters are 20" x 20" x 2". They are designed to capture paint over spray. Arrestor filters mount in exhaust cells with wire grids.

Intake filters

Intake filters are three-ply 20" x 20" x 2" filters designed to filter intake air from particulate matter. Intake filter mounts in cell. Filters install with the green side to the interior of the booth and the white side to the incoming air.

General Component Use and Location

Filter wire grids

Grids retain exhaust filters in exhaust plenum holding cells. Place one grid in the filter cell with the prongs facing toward you. Push the grid in as far as it will go. Place a filter in the cell. Finally place the last grid in the cell with the prongs facing away from you. Push the grid in as far as it will go. The second grid will hold the filter in the filter cell. The rubber tips on the grids are to secure the grid and help to take up any room between the filter cell and the grid.

Floor rail

Used to mount wall panels to floor. This is a 14 Ga. galvanized steel rail with 6" OC pre-punched holes. Wall panels and floor rails should be connected before wall panels are erected. Floor rail should be anchored to floor at not more 36" intervals with an approved anchor type fastener.

Standard panels

Panels are 18 Ga. galvanized steel construction. Panels have 2" x 1/2" flange along sides and are open on the ends. Panels have pre-punched holes on flanges for easy and accurate assembly.

Z Bar

The Z bar can be easily identified by its Z shape. Used to connect the wall section of the booth to the top section. The Z bar is formed from 18 Ga. galvanized steel with 6" holes on center. Z bar shall be bolted with supplied 1/4" nuts and bolts.

Gable panels

Gable panels are the angle panels that join the wall section and the top section of the spray booth together. Gables may have light openings for fluorescent fixtures. Gables have pre-punched holes on flanges for easy assembly.

Support header

The header is attached to the front of the booth to flanges of wall panels. The header provides the mounting point for top panels. The header also provides flame curtain.

General Component Use and Location

Clear tempered safety glass

Provides fire barrier between interior of spray booth and light fixtures. Glass should be kept clean and free of over spray.

Main doors

Tube frame construction. Installs into front of booth between hinge panels and under the header. Doors have pre-welded hinges that bolt to hinge panels.

Man access door

Tube frame construction. Installs into wall section of spraybooth. Door frame is pre-punched to install into floor rail. Door has mounting base for small cast latch on side of door. Door also has plate on top for door switch.

Door stop angle

Used to stop the bottom of the door when it is closed. This angle should be mounted to the floor with anchors bolts.

Door switches

Mounts on outside of booth on man door and main doors. Door limit switch turns off compressed air when the door is opened in spray mode. The door limit switch turns off the flame when the door is opened in bake mode.

Motor cover

Motor cover mounts on fan to cover motor and drive on fan. Motor cover has vented screens for cooling motor.

Fan panel

Fan panel has round opening that fan mounts on. Support angles are welded on fan panel to support fan and motor.

Mag starter

Starts and stops motor. Provides over load and single phase protection on three phase service. Starter provides control for the spray air interlock system. Starter should be mounted at least 36" away from any opening on the spray booth.

Air solenoid valve

The 240VAC normally closed valve installs into the compressed air line. The valve opens during the spray cycle when the exhaust fan is running. The valve closes when the spray cycle stops.

Warranty

LIMITED WARRANTY

All paint spray booths supplied by Marathon are warranted by Marathon against defects in workmanship for materials under normal use for one year after the date of purchase from Marathon. Any part which is determined by Marathon to be defective in material or workmanship and is returned to Marathon, shipping cost prepaid, will be, as the exclusive remedy, repaired or replaced at Marathon's option.

LIMITATIONS OF LIABILITY

Any liability of consequential and incidental damages is expressly disclaimed. Marathon's liability in all events is limited to, and shall not exceed, the replacement price of the part.

PRODUCT SUITABILITY

All states and localities have codes and regulations governing the construction, installation and/or use of paint spray booths, which may be interpreted differently from those in neighboring areas. While Marathon attempts to assure that its spray booths comply with such codes, it cannot guarantee compliance, and cannot be responsible for how the spraybooth is installed or used. Before the purchase and use of a spray booth, please review the spray booth application, and national and local codes and regulations, and be sure that the product, installation and use comply with them.

FREIGHT LOSS OR DAMAGE POLICY

Unless otherwise specified, Marathon accepts no responsibility for loss or damages to products shipped from Marathon unless said products are shipped freight prepaid by Marathon. Exception: If it is determined by Marathon that loss or damage occurred as a result of negligence on the part of Marathon, Marathon will replace the lost or damaged articles. If such a determination is made by Marathon, replacement of lost or damaged articles will occur only after receipt of a written request, from the purchaser.

Warnings

Spray Booth Functions

- Provide a healthy working environment for the painter.
- Isolate the application of potentially hazardous substances from other operations in the workplace.
- Control overspray emitted to the outside environment.
- Improve the quality of the finished product by providing a clean, well lit area in which to apply surface coatings.

Installation, Operation and Maintenance

Many states and localities have codes and regulations governing sales, construction, installation and/or use of products for certain purposes, which may vary from those in neighboring areas. Before purchase and use of a product please review the product application and national and local codes and regulations to be sure that the product installation and use will comply with them.

A permit might be required to install this product.

There are inherent hazards associated with the operation and service of this equipment. For your personal safety, observe all of the safety information. Failure to observe these safety practices can result in personal injury or death.

It is impossible to list all potential hazards of this equipment.

Observe all warnings and make sure you are thoroughly familiar with this manual and the equipment.

Marathon spray booths are designed to be installed and maintained by trained and qualified spray booth professionals.

All operators, users and service personnel have to be trained in the following:
Potential safety and health hazards. Operation, maintenance, and emergency procedures.
Importance of constant operator awareness.

All training has to be documented on the Booth User Training Sheet as per NFPA 33 Chapter 18.

Warnings

General

Follow all general standards for installation and safety for work on installations.

Follow all good practices for the proper use of lifting tackle and equipment.

Proper protective equipment such as safety goggles, gloves and protective footwear must be used.

Use ear protection when sound pressure levels exceed 85 decibels.

Guards and covers that prevent contact with electrically energized or moving parts must not be removed or left open during operation.

Safety Signs and Markings

Safety signs, panels, and labels that are normally affixed to the product must be replaced immediately if illegible or missing.

New or replacement parts that are installed during repair or maintenance must include all safety signs, panels, and labels as specified by the manufacturer. These must be affixed to the new or replacement parts as specified by the manufacturer.

Electrical

Installation must meet all applicable national, state, and local electrical codes.

Electrical installation shall be done by a qualified electrician.

All field wiring provided must be done in accordance with local codes or, in the absence of local codes, the National Electrical Code (NFPA 70).

All wiring must conform to the latest NEC codes 500, 501, 502, 505, 516.

Disconnect and lock out the main electrical service before installing, adjusting, or servicing the product.

Ensure that all electrical components are grounded to a central ground.

For grounding purposes, pre-coated panels or powder coated panels and prop fans must have one pair of star washers per nut/bolt set for each panel joint that penetrates the pre-coat finish (NFPA 33).

Provide overload protection for exhaust fan motor(s).

In most cases a spray air interlock is required to prevent spraying when the exhaust fan is not operating. Check local codes.

Warnings

Make sure that all spray booth components are properly bonded together to avoid the possibility of sparks caused by static electricity.

Fire Codes

Portable fire extinguishers need to be provided and located in accordance with NFPA 10.

Install the booth in compliance with the standards of the NFPA.

Local fire and building codes may require fire protection. Check with local inspector authorities for requirements.

A fire suppression system is required by the NFPA. A fire suppression system is not supplied with this booth.

Exhaust

Duct the exhaust air from the fan away from the working environment to the outdoors.

Ventilation and exhaust systems have to be designed and installed per NFPA 91. Isolate the outdoor vent from air-conditioning intakes, windows, and any other equipment that may recirculate the exhaust indoors.

After spray operation, ventilation has to operate long enough to exhaust the vapors from the drying object.

Spray Booth Operation

Turn the exhaust fan on before using the spray booth. Ensure that the exhaust fan is operating correctly before entering the booth.

Spraying operation should not be performed unless the exhaust fan is on.

This spray booth is only designed to remove particulate matter from the air. Reduction of volatile organic compounds (VOCs) requires either coating reformulation or optional, additional equipment.

Some spray activities may require the use of respiratory protection. Use an OSHA-approved paint spray respirator when spraying in the booth.

All spraying operations should occur within the confines of the booth.

Coatings to be applied in the booth should be contained in a sealed vessel and should not be mixed or stored in the booths.

Filters

Do not overfill the manometer, allowing fluid to collect in the flexible plastic connecting loop in the back of the manometer. This could cause a serious reading error.

Warnings

Do not operate the spray booth when the manometer indicates that the filter pads needs to be replaced.

When the exhaust fan is turned on the manometer should be checked. If the reading is greater than .25 inches of Water, the exhaust filters should be changed.

Treat used arrestor filter pads and any other paint-contaminated items as flammable products and dispose of them properly and safely.

Install and use Spray Booth at your own risk:

Waiver: Marathon accepts no liability for injuries, damages, losses any other incurred or incidental loss during installation or use of this product. Beginning installation purchaser, installer, user, operator or other waives and releases Marathon from any and all liabilities for damages, injuries or losses.

Specifications

Marathon Spray Booths are manufactured along the guidelines of the following standards and codes.

National Electrical Code (NEC) 516
National Fire Protection Association article (NFPA) 33, 70 and 101
Uniform Fire Code (UFC) article 45
Occupational Safety & Health Administration (OSHA)

These represent many critical manufacturing and performance standards for airflow and material specifications.

Air Flow

Components with specifications to provide a minimum of 100 linear feet per minute cross section face velocity in the booth.

Air velocity shall be designed, installed and maintained such that the average air velocity across the filter section of the booth during spray paint shall be not less than 100lin.t/min.

Spray booth shall have an adequate amount of filters to ventilate spray booth or a minimum of one filter per 1,000 CFM.

Manometer air flow gage with warning label equipped with booth to indicate when exhaust filters are dirty as to advocate proper function of the spray booth.

Exhaust Fan

Exhaust fan blade is non-ferrous metal. Aluminum blade will not spark on accidental contact with housing.

Fan motor is mounted out of the air flow to keep the potential ignition source it away from VOCs and over spray.

Paint spray gun is interlocked with exhaust fan through an air solenoid valve to prohibit spray painting when the exhaust fan is off.

Structure

Spray booth is constructed of a minimum of 18 gage galvanized steel. All panels are pre-punched 6" on center and they are nut and bolt construction.

Man access and exit doors are a minimum of 3'-0" x 7'-0" in dimension.

The interior of the spray booth is smooth and continuous and shall not have baffles or deflectors interfering with the air flow or causing overspray accumulation.

Specifications

Filtration

Filters are 20" x 20" x 2" non flammable Class 1 or Class 2 paint arrestors. Filters shall contain overspray matter in retainer pad.

Spray booth filter shall be of industry standard weight and thickness.

Filtration design and performance shall be consistent with local and national Air Quality Guidelines.

Electrical

Any light fixture shall be mounted on heat treated tempered glass to effectively isolate the Class 1 spray booth interior area from the exterior area.

Exhaust duct

Duct shall be equipped with inspection door to view fan and blade.

Duct shall be of 18 gage galvanized steel or adequate minimum gage by diameter.

Exhaust duct system shall not exceed a 90 degree turn in any system.

If duct is run through combustible roof the proper 2" insulation material shall wrap duct 18" above and below roof line to insulate and separate roof from exhaust duct. Wrap shall be of 22 gage galvanized steel or adequate minimum gage by diameter.

Installation and use

Spray booth shall be installed and operated in a covered building in accordance to all national and local codes governing use and operation of the spray booth.

Foundation shall be non flammable cement base or sealed foundation to mount spray booth. Booth shall be anchored to foundation in accordance to UBC and local codes.

All flame cutting, welding or grinding shall take place 20' away from the spray booth. Any exterior electrical devices like lights, motors, controls, etc. shall be a minimum of 5' from any open area on the spray booth.

Any exterior electrical devices: light, motor, control, etc. shall be a minimum of 3' from any closed area on the spray booth.

Spray booth shall be equipped with an automatic fire sprinkler/suppression system to provide contained fire protection in the booth in the event of a fire. System shall be provided and designed by authorized and licensed fire protection contractor.

All safety interlocks and proper control devices shall be installed and utilized on spray booth during operation to provide proper and safe function of spray booth. All national and local codes governing installation and use shall be followed.

Maintenance

Due to the wide variety of coatings applied in spray booths, the frequency with which maintenance operation should be carried out varies substantially. The following items should become a regular part of your maintenance procedure, and be carried out on a schedule dictated by the use of the booth. You should periodically reevaluate and amend this schedule to ensure that it fits your needs exactly. An easily changeable electronic version is available upon request from Marathon.

Warning!

Disconnect electrical power before servicing lights or the ventilation system.

Marathon Spray booth Maintenance Check List

To be cleaned and Inspected	Daily	Weekly	Monthly	6 Months
Check manometer for exhaust filter performance and replace if needed	x			
Visually check intake filter and replace if dirty	x			
All internal spray booth surfaces cleaned from overspray	x			
Clean regulators and other equipment surfaces from overspray	x			
Replace burned out light bulbs	x			
Manometer oil level		x		
Exhaust ductwork			x	
Intake ductwork			x	
Lubricate exhaust fan bearings				x
Check and replace exhaust fan belt if needed				x
Check exhaust fan belt tension				x
Check pulley alignment				x
Inspect exhaust fan blades				x
Clean exhaust fan blades				x
Clean exhaust motor housing				x
Lubricate exhaust motor				x
FOLLOW MANUFACTURER'S MAINTENANCE INSTRUCTIONS ON ALL OTHER EQUIPMENT				

Installation

Waiver: Marathon accepts no liability for injuries, damages, losses and/or other incurred or incidental loss during installation or use of this product. At the beginning of installation purchaser, installer or other waives and releases Marathon from any and all liabilities for damages, injuries or losses.

Inventory spray booth and components upon arrival. All damages must be reported to selling party within 24 hours of receipt and freight claim filed with the carrier to uphold or honor any damages or freight loss.

A non-combustible flat, smooth, level surface is best suited for installation of any spray booth. If necessary, make corrections to surface prior to installing spray booth. The booth will be installed as level as the surface it is mounted on. During installation tighten all nuts and bolts on panel flanges securely as to properly seal all panes seams and to make safe strong connections. All floor rails must be bolted securely to booth walls and then fastened to floor with approved anchoring device.

Most fire departments and city departments will require a certain clearance distance around spray booths for adequate cleaning and fire separation. Check with local city and county officials for other options for installation and special requirements.

During installation it is necessary to support all walls and gables prior to attaching roof panels. This is to insure a safe and accurate installation.

Under no circumstances shall the booth be considered or used as a load bearing structure. Do not walk stand or use the spray booths as a support structure before, during or after installation.

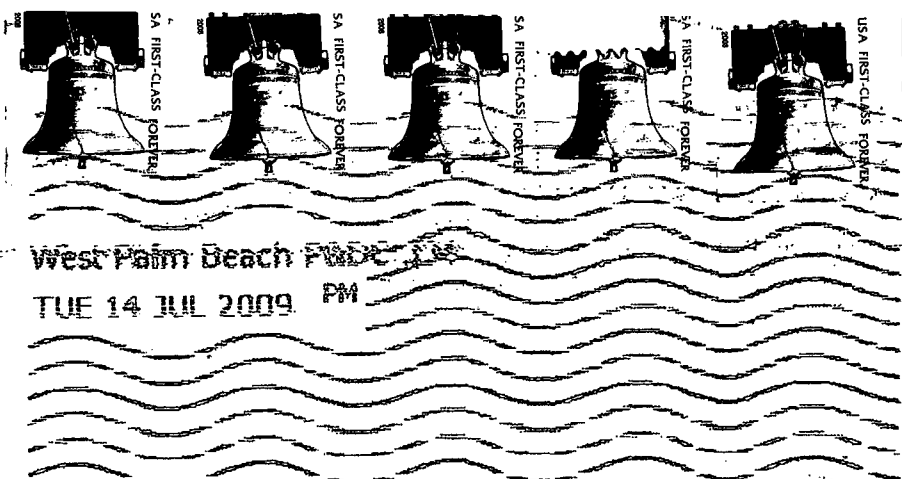
Spray booths are manufactured and designed for indoor use only. They are not weather proof or designed to be installed outside.

During installation continuously check all dimensions. Check walls, ceiling height and front end opening for square and level.



plash Technologies, Inc.

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TUE 14 JUL 2009 PM

Florida Department of Env. Protection
Receipts
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