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JUN 08 2009

Bureau of Air Monitoring & Mobile Sources

**SURFACE COATING 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)

0810225-001

**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): \_\_\_\_\_
- 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.)

~~Richard Weisgold~~ **RICHTEK LLC**

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.)

MAACO Collision Repair and Auto Painting

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

Street Address: 3155-3157 9th Street West

City: Bradenton

County: Manatee

Zip Code: 34205

Facility Start-Up Date (Estimated start-up date of proposed **new** facility.)(N/A for existing facility)  
January 25, 2010

**Owner/Authorized Representative**

Name and Position Title (Person who, by signing this form below, certifies that the facility is eligible to use this air general permit.)

Print Name and Title: Richard Weisgold, Owner

Owner/Authorized Representative Mailing Address

Organization/Firm: Richtek, LLC. dba MAACO Collision Repair and Auto Painting

Street Address: 5267 Visionary Court

City: Sarasota

County: Sarasota

Zip Code: 34233

Owner/Authorized Representative Telephone Numbers

Telephone: (941) 822 0723 home

Fax:

Cell phone (optional): (941) 539 8619

**Facility Contact (If different from Owner/Authorized Representative)**

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)

Print Name and Title:

Facility Contact Mailing Address

Organization/Firm:

Street Address:

City:

County:

Zip Code:

Facility Contact Telephone Numbers

Telephone:

Fax:

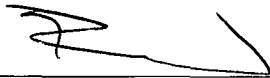
Cell phone (optional):

**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

6-1-2009

Date

2009 JUN -3 PM 9:05  
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**Material Usage Rates**

If this is an **initial registration** for a surface coating operation, provide an estimate of the average quantity of volatile organic compounds in all coatings (solvents and thinners) expected to be used on a daily basis.

34 lbs/day

If this is a **re-registration** for an existing surface coating operation, provide the highest monthly average of the daily quantity of volatile organic compounds in all coatings (solvents and thinners) used in the last five years. Indicate the month and year during which this usage occurred.

**Description of Facility**

Below, or as an attachment to this form, provide a description of the surface coating 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.

Richtek, LLC. dba MAACO Collision Repair and Auto Painting, is an auto body shop used for the refinishing and resurfacing of automobiles. This facility is installing a Garmat paint spray booth and oven. The paint spray booth is a pressurized semi-downdraft booth with glass fiber filtration media (99.5% efficiency) for particulate control. The booth and oven each contain a 997,000 Btu natural gas fired burner. The emissions from the equipment will consist of VOC's and a small amount of particulate after filtration. Criteria pollutants from the combustion of natural gas are also emitted. (Detailed emission calculations are attached) The applicator is a high efficiency gravity feed gun that provides equal or better efficiency of transfer than HVLP. A Hercules GW/R-T totally enclosed gun washer will also be used for cleanup.

This equipment meets the criteria for the MACT standard 40CFR Part63 subpartHHHHHH

2009 JUN -3 5:11 PM '09  
DEP  
REC'D

**INITIAL NOTIFICATION**  
**Paint Stripping and Miscellaneous Surface Coating**  
**Area Source Rule**  
**Subpart HHHHHH**  
40 CFR 63.11169 – 63.11180

1. **Company Name (if applicable)** Richtek, LLC. dba MAACO Collision Repair and Auto Painting

2. **Information about the owner and operator:**

a. Owner's Name and Title Richard Weisgold, Owner

Owner's Street Address 5267 Visionary Court Sarasota FL 34233  
Street City State Zip

Owner's telephone number (941)539 8619 cellular

Owner's email (if available) rweisgo11@verizon.net

Is the Operator the same person as the Owner? Yes  No

If the Operator information is different please provide the following (Attach a list with the same information for additional operators):

b. Operator's Name and Title \_\_\_\_\_

Operator's Street Address \_\_\_\_\_  
Street City State Zip

Operator's telephone number \_\_\_\_\_

Operator's email (if available) \_\_\_\_\_

Is there any other certifying company official that will sign this form? Yes  No

If Certifying Official information is different please provide the following:

c. Certifying Official's Name and Title \_\_\_\_\_

Certifying Official's Street Address \_\_\_\_\_  
Street City State Zip

Certifying Official's telephone number \_\_\_\_\_

Certifying Official's email (if available) \_\_\_\_\_

3. **The street address (physical location) of the affected source**

3155-3157 9<sup>th</sup> Street West Bradenton FL 34205  
Street City State Zip

Are the compliance records located at the same location? Yes  No

If the location of compliance records is different please provide street address:

\_\_\_\_\_  
Street City State Zip

Is the source a motor vehicle or mobile equipment surface coating operation that repairs vehicles at the customer's location, rather than at a fixed location?

Yes  No

4. **Identification of Standard (you must check this box):**

Yes, I am subject to 40 CFR Part 63 Subpart HHHHHH, National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Source; Final Rule

5. **A brief description of the type of operation:**

**For Surface Coating Operations**

- a. I am a:  
 Motor Vehicle or Mobile Equipment Surface Coating Operation  
 Miscellaneous Surface Coating Operation
- b. Number of spray booths 1
- c. Number of preparation stations 0
- d. Number of painters usually employed 1

**For Paint Stripping Operations**

- a. Methods of paint stripping employed (check all that apply)  
 Chemical  
 Mechanical  
 Other (please describe) \_\_\_\_\_
- b. Substrates stripped (check all that apply)  
 Wood  
 Plastic  
 Metal  
 Other (please describe) \_\_\_\_\_

6. **Methylene Chloride (MeCl) Used by Paint Stripping Operations**

Do you plan to use more than 1 ton of MeCl annually? Yes  No

7. **Compliance Status, please check one:**

For paint stripping operations, the relevant requirements that you must evaluate in making this determination are specified in 40 CFR 63.11173(a) through (d) of this subpart. For surface coating operations, the relevant requirements are specified in 40 CFR 63.11173(e) through (g) of this subpart.

- I am already in compliance with each of the relevant requirements  
 I will be in compliance with each of the relevant requirements by the compliance date

New Source (after Jan 9, 2008) Compliance date is date of startup

New Source (after September 17, 2007 but before January 9, 2008) Compliance date is January 9, 2008

Existing source (before September 17, 2007) Compliance date is January 10, 2011

8. **Certification of compliance status**

You must check one:

Note: Initial startup is the first time equipment is brought online in a paint stripping or surface coating operation, and paint stripping or surface coating is first performed.

- I am a new source (Initial startup was on or after January 9, 2008) Date Projected 1-2010  
 I am a new source (Initial startup was after September 17, 2007 but before January 9, 2008) Date \_\_\_\_\_

If your source is a new source, a responsible official, whose information is provided above, must certify by signing below that the source is in compliance with each of the relevant requirements of this subpart.

- I am an existing source (Initial startup was before September 17, 2007) Date \_\_\_\_\_

If your source is an existing source, a responsible official, whose information is provided above, may certify below that the source is already in compliance with each of the relevant requirements of this subpart or certification may be done by March 11, 2011 in the Notification of Compliance Status as specified in 40 CFR Section 63.11175(b)

- I am certifying below  I will certify by March 11, 2011

(There is no need to sign below, you must sign a statement by March 11, 2011)

**I certify the truth, accuracy, and completeness of this notification. The source has complied with all the relevant standards of this subpart. This initial notification also serves as the notification of compliance status.**

Signature of responsible official: owner operator (circle one)



Please Print Name Also

Richard Weisgold

**SPRAY BOOTH:**

**FILTERS:** Booth Ceiling, Filtrair CO600 G media, 99.9% efficiency, thermally bonded and impregnated in full depth to prevent release of fibers and migration of particles larger than 5 microns.

Booth Exhaust, Filtrair Point Arrester, glass fiber media, 96.5% efficiency, 4 self-sealing rocks located in each of the two exhaust towers.

**FANS:** Booth Intake: 1 Dual 355 Centrifugal Fan Assembly with a 7.5 HP Motor.  
Booth Exhaust: 1 Single 450 Spark Arresting Reverse Incline Fan with 7.5 HP Motor.

CFM: 10,000

**OVEN:**

**FILTERS:** Oven Ceiling, Filtrair CO600 G media, 99.9% efficiency, thermally bonded and impregnated in full depth to prevent release of fibers and migration of particles larger than 5 microns.

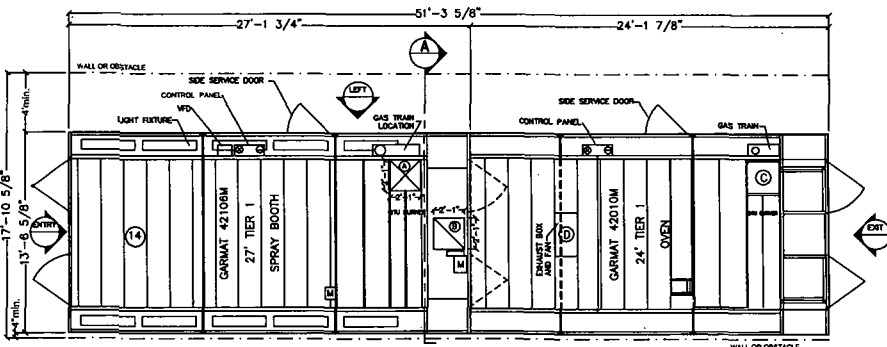
**FANS:** Oven Intake: 1 Dual 315 Centrifugal Fan Assembly with a 5 HP Motor.  
Oven Exhaust: 1 Single Spark Arresting 12" Tube Side Fan with a 1/3HP Motor.

CFM: 8,000

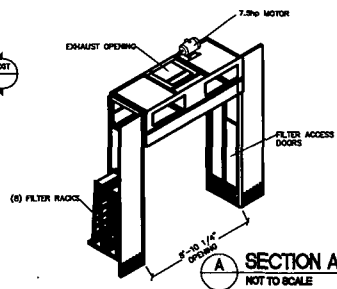
**LIGHT FIXTURES:** Comply with the requirements of the Standard(s) for Electric Lighting Fixtures for use in Hazardous (Classified) Locations (UL-844) and are identified with the ETL Listed Mark.

**THE GARMAT 42106 27 TIER 1 SPRAY BOOTH WILL REQUIRE:**

1. AT ELECTRICAL DROP THE LIGHTING (14, 4-TUBE INTERIOR ACCESSIBLE LIGHT FIXTURES) WILL REQUIRE TWO 120v/20amp SINGLE PHASE CIRCUITS STANDARD, OR TWO 277v/10 amp, SINGLE PHASE CIRCUITS OPTIONAL. UPGRADED LIGHTING WILL REQUIRE AN ADDITIONAL LIGHT CIRCUIT.
2. AT ELECTRICAL DROP THE TWO STANDARD 7.5hp MOTORS WILL REQUIRE 208v/60amp, 240v/50amp, OR 480v/30amp, THREE PHASE SERVICE.
3. ALL ELECTRICAL CONNECTIONS SHOULD BE IN ACCORDANCE TO THE CURRENT NEC (NATIONAL ELECTRICAL CODES), VERIFY COMPLIANCE OF LOCAL CODES WITHIN THE JURISDICTION OF THE INSTALLATION SITE.
4. ALLOW ADEQUATE CLEARANCE OF 3' MINIMUM FROM ALL SPARKING ELECTRICAL COMPONENTS, TO CONFORM TO THE CURRENT NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) 33, EDITION.
5. REMOTE CONTROL PANEL TO BE PLACED WITHIN 20' OF MAIN CONTROL PANEL, AND NOT TO BE WITHIN 3' OF A BOOTH OPENING, IN COMPLIANCE WITH THE CURRENT NEC EDITION.
6. SUPPLY 100 PSI COMPRESSED AIR TO MAIN GARMAT CONTROL PANEL, INCLUDING SHUT OFF VALVE (NOT SUPPLIED), CLEAN AND DRY AIR IS REQUIRED BEFORE THE SPRAY BOOTH CONTROL PANEL. A QUALITY AIRLINE DRYER (NOT SUPPLIED) CAPABLE OF A CONSTANT 17 CMH SHALL BE INSTALLED PRIOR TO MAIN CONTROL PANEL. AN ADEQUATE PRESSURE REGULATOR (NOT SUPPLIED) CAPABLE OF A CONSTANT 17 CMH AT 60 PSI IS RECOMMENDED PRIOR TO ENTERING THE SPRAY BOOTH CABIN (DO NOT MOUNT REGULATORS OR AIR FILTERS INSIDE THE BOOTH CABIN).
7. BURNER SIZE: 997,000 btu
8. SUPPLY GAS PIPING TO GAS TRAIN, INCLUDING UNION AND DRIP LEG (1 1/4" CONNECTION AT GAS TRAIN INLET), (RECOMMENDED DEDICATED LINE FROM METER WHEN POSSIBLE), GAS PRESSURE MUST BE A MINIMUM OF 14" psi (7" w.c.) AND A MAXIMUM OF 34" psi (21" w.c.), CAPACITY TO PROVIDE FOR 997,000 BTU BURNER, VENTING OF REGULATOR AND VALVES ON GAS TRAIN TO THE EXTERIOR OF BUILDING - MINIMUM OF 10' FROM INTAKE.
9. LEVEL FLOOR +/- 1/8"
10. ALLOW ADEQUATE SPACE AROUND THE BOOTH IN ACCORDANCE TO THE CURRENT NFPA 33, EDITION.
11. MEANS OF EGRESS TO CONFORM TO THE CURRENT NFPA 101, EDITION.
12. A MINIMUM CLEARANCE OF 20' IS REQUIRED FROM FRONT OF THE BOOTH TO ANY WALL OR OBSTACLE FOR OPTIMUM TURNING RADIUS.
13. HEIGHT OF BOOTH CABIN IS 12'-2 3/8". HIGHEST POINT IS 12'-10 7/8".
14. PROVIDE FOR UNOBSTRUCTED EXPLOSION RELIEF IN ACCORDANCE TO THE CURRENT NFPA 86, ED EDITION.
15. AN APPROVED AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BE PROVIDED BY OTHERS, IN ACCORDANCE TO THE CURRENT NFPA 33, EDITION



PLAN VIEW

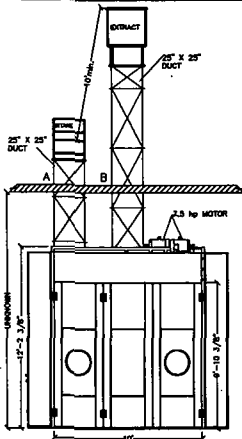


**LEGEND**

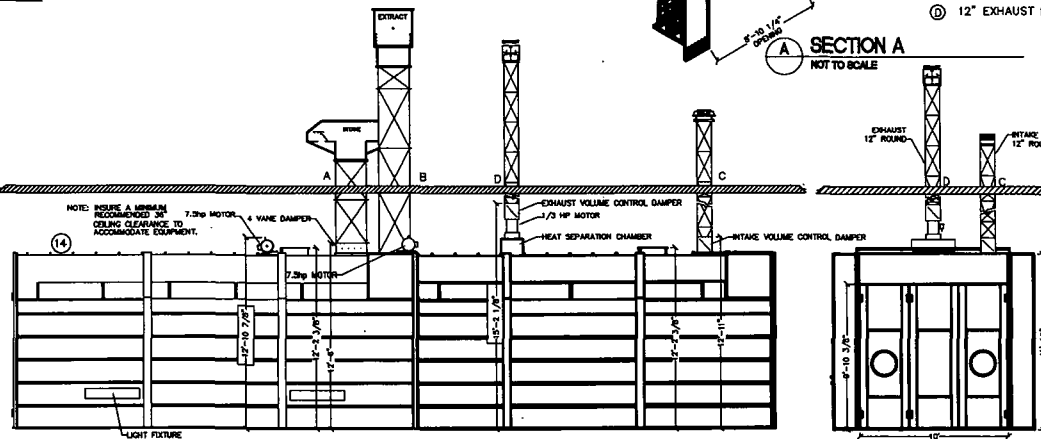
- ⊖ ELECTRICAL DROP
- M MOTOR LOCATION
- ⊗ AIR INLET
- GAS TRAIN INLET
- Ⓐ 25X25 INTAKE DUCT BOOTH
- Ⓑ 25X25 EXHAUST DUCT BOOTH
- Ⓒ 12" INTAKE DUCT OVEN
- Ⓓ 12" EXHAUST DUCT OVEN

**OVEN REQUIREMENTS:**

1. AT ELECTRICAL DROP LIGHTING (1, 4-TUBE INTERIOR ACCESSIBLE LIGHT FIXTURE) WILL REQUIRE ONE 120V/20A, 20/10amp, SINGLE PHASE CIRCUITS. 110v STANDARD, 277v OPTIONAL. UPGRADED LIGHTING WILL REQUIRE AN ADDITIONAL LIGHT CIRCUIT.
2. AT THE ELECTRICAL DROP EACH MOTOR WILL REQUIRE 208V/240/480V(575 OUTSIDE OF USA), 30/30/15amp, THREE PHASE SERVICE FOR ONE 1/3hp MOTOR AND ONE 5hp MOTOR.
3. ALL ELECTRICAL CONNECTIONS SHOULD BE IN ACCORDANCE TO THE CURRENT NEC (NATIONAL ELECTRICAL CODES), VERIFY COMPLIANCE OF LOCAL CODES WITHIN THE JURISDICTION OF THE INSTALLATION SITE.
4. ALLOW ADEQUATE CLEARANCE OF 3' MINIMUM FROM ALL SPARKING ELECTRICAL COMPONENTS, TO CONFORM TO THE CURRENT NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) 33, EDITIONED.
5. REMOTE CONTROL PANEL TO BE PLACED WITHIN 20' OF MAIN ELECTRICAL PANEL, AND NOT TO BE WITHIN 3' OF A BOOTH OPENING, IN COMPLIANCE WITH THE CURRENT NEC EDITION.
6. BURNER SIZE: 997,000 btu
7. SUPPLY GAS PIPING TO GAS TRAIN, INCLUDING UNION AND DRIP LEG (1 1/4" CONNECTION AT GAS TRAIN INLET), (RECOMMENDED DEDICATED LINE FROM METER WHEN POSSIBLE), GAS PRESSURE MUST BE A MINIMUM OF 14" PSI (7" w.c.) AND A MAXIMUM OF 34" PSI (21" w.c.), CAPACITY TO PROVIDE FOR 997,000 BTU BURNER, VENTING OF REGULATOR AND VALVES ON GAS TRAIN TO THE EXTERIOR OF BUILDING - MINIMUM OF 10' FROM INTAKE.
8. LEVEL FLOOR +/- 1/8"
9. ALLOW ADEQUATE SPACE AROUND THE BOOTH IN ACCORDANCE TO THE CURRENT NFPA 33, EDITION.
10. MEANS OF EGRESS TO CONFORM TO THE CURRENT NFPA 101, EDITION.
11. A MINIMUM CLEARANCE OF 20' IS REQUIRED FROM FRONT OF THE BOOTH TO ANY WALL OR OBSTACLE FOR OPTIMUM TURNING RADIUS.
12. HEIGHT OF OVEN CABIN IS 12'-2 3/8". HIGHEST POINT IS 12'-10 7/8".



ENTRY ELEVATION  
NOT TO SCALE



RIGHT ELEVATION  
NOT TO SCALE

EXIT ELEVATION  
NOT TO SCALE

ALL DATA IS ISSUED FOR INFORMATION ONLY. YOU SHOULD USE THIS DATA FOR REFERENCE PURPOSES ONLY TO ASSIST IN COORDINATING YOUR WORK AND IS SUPPLEMENTARY TO FORMALLY ISSUED PAPER DRAWINGS. IN ALL INSTANCES THE CONTRACT DRAWINGS GOVERN. IT IS THE RESPONSIBILITY OF THE RECIPIENT TO CHECK ALL DIGITAL INFORMATION AGAINST THE CONTRACT DOCUMENTATION. GARMAT USA, INC. ACCEPTS NO LIABILITY OR RESPONSIBILITY FOR ANY LOSS DAMAGE SUFFERED AS A RESULT OF (OR IN CONNECTION WITH) THE USE OR MISUSE OF THE COMPUTER AIDED DESIGN (CAD) DATA SUPPLIED FOR INFORMATION ONLY. ONCE THE DATA IS INTRODUCED INTO YOUR OWN CAD OR OTHER SYSTEM, GARMAT USA, INC. CAN TAKE NO RESPONSIBILITY FOR ITS ACCURACY.

CAROL NELSON

Drawn by: Approved by: Date:

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Garmat USA, Inc. FAX (303)781-2683 PHONE (303)781-6802 1401 W. STANBRO AVE. ENGLEWOOD, CO 80110

ALL EQUIPMENT IS DESIGNED EXPRESSLY FOR THE REMOVAL OF PARTICULATE MATTER ONLY. REACTION OF "VOLATILE ORGANIC COMPOUNDS" REQUIRES OTHER COATING REFORMULATION OR OPTIONAL, ADDITIONAL EQUIPMENT.



• SHOP DRAWINGS BASED ON INFO • AVAILABLE INFORMATION EXCLUDED • EXHAUST FILTERS MUST BE MAINTAINED WITH A FREQUENCY OF ORDER OF 20% OF THE AVAILABLE INFORMATION. • FIELD VERIFY ALL DIMENSIONS. MATERIALS AND LOCAL CODES MUST BE VERIFIED WITH THE INSTALLATION SITE. • REPRODUCIBLE FILE PROTECT DESTRUCTION.

EQUIPMENT PLAN VIEW, ELEVATIONS AND SPECIFICATIONS  
COMPUTER GENERATED DRAWING FOR:  
MAACO PAINT CENTER  
BRADENTON, FL

DIST. - STRANDBERG  
STATUS - PERMIT  
CUST. - 751  
REVISION - 0  
SHEET SIZE - D

DWG NO. STM751A0

DATE 4/29/09 SHEET NO. 20 OF 21  
SCALE 1/4" = 1' A

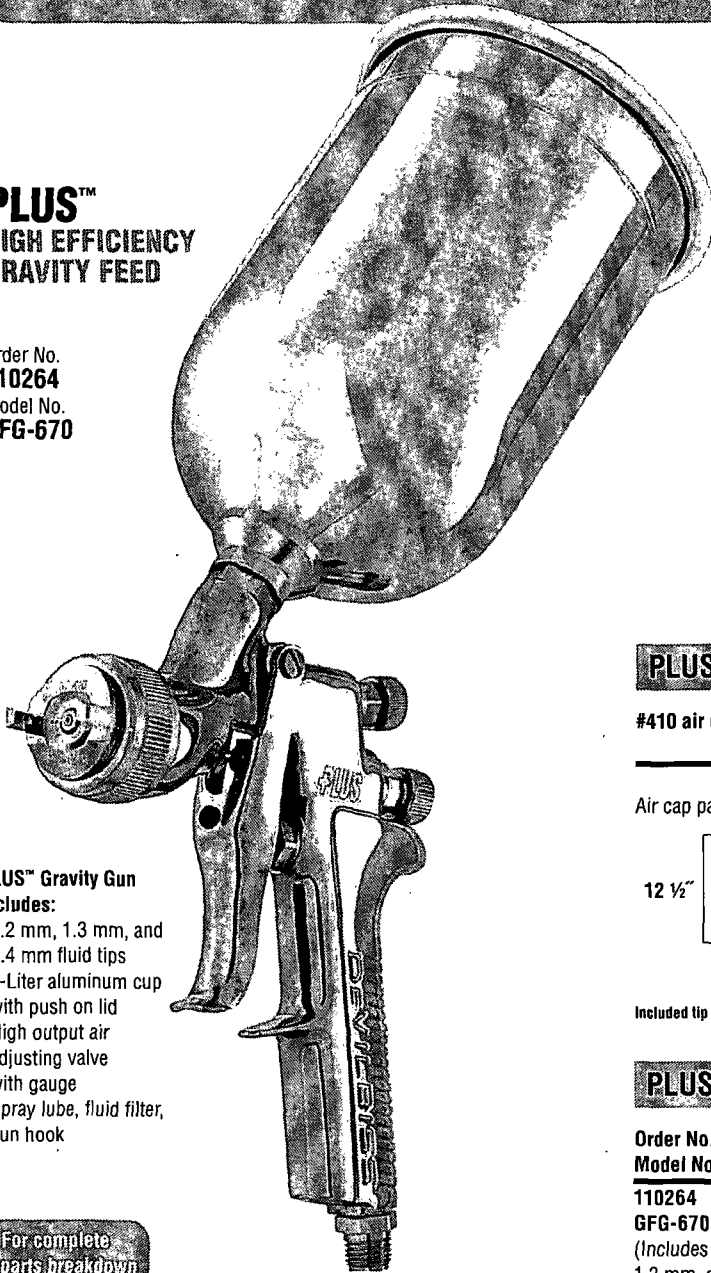
PRESSURIZED SEMI-DOWNDRAFT SPRAY BOOTH GAS FIRED OVEN

Manufacture	Type		Model #	Dimensions
<b>GARMAT TIER 1 BOOTH or Equivalent</b>	Pressurized Semi-Down Draft Spray Booth Exhaust: 25" x 25" 7.5 HP, 3 Phase. 10,000 CFM's. Exhaust Fan Make: NICONTRA, Model # 632N49W. Exhaust Fan Motor: Make & #, BALDOR, M3710T Air Intake Unit: 25" x 25" 7.5 HP, 3 Phase, 10,000 CFMs BTUs: 997,000 NATURAL GAS			13' - 6 5/8" x 27' 1 3/4"
<b>GARMAT TIER 1 OVEN or Equivalent</b>	Recirculation Gas Fired Oven. Purge Exhaust: 12" x 12" 1/3 HP, 3 Phase, 8,000 CFMs Exhaust Fan & Motor Make: GRAINGER, Model # 17F921 Intake: 12" x 12" Intake Duct w/ 5 HP, 3 Phase, 8,000 CFMs BTUs: 997,000 Natural Gas  Overall Spray Booth & Oven Dimensions			13' - 6 5/8" x 24' 1 7/8"  13' 7" x 51' 3 5/8"
<b>Exhaust Filter Info</b>	<b>Spray Booth</b> - Glass Fiber Media, 99.5% efficiency	SUPERIOR	PA - 21	8) 59.5" x 24"
<b>Intake Filter Info</b>	<b>Spray Booth</b> - Thermally bonded & impregnated in full depth to prevent release of fibers & migration of particles larger than 5 microns. 99.5% efficiency	FILTRAIR	CC 600 G	8) 38.5" x 61.42"
	<b>Oven</b> - Thermally bonded & impregnated in full depth to prevent release of fibers & migration of particles larger than 5 microns. 99.5% efficiency	FILTRAIR	CC 600 G	8) 38.5" x 61.42"
<b>Hercules</b>	Gun Washer		G200	
<b>DeVilbiss</b>	HIGH EFFICIENCY GRAVITY FEED		GFG-670 Plus Gravity Gun	



**PLUS™**  
HIGH EFFICIENCY  
GRAVITY FEED

Order No.  
**110264**  
Model No.  
**GFG-670**



**PLUS™ Gravity Gun**  
Includes:

- 1.2 mm, 1.3 mm, and 1.4 mm fluid tips
- 1-Liter aluminum cup with push on lid
- High output air adjusting valve with gauge
- Spray lube, fluid filter, gun hook

For complete parts breakdown please see page 37

**Experience the Power of PLUS...**

- **Powerful atomization** – twice the energy available in HVLP guns
- **Powerful productivity** – super fast fluid flow for high speed painting
- **Powerful efficiency** – equal to or better than HVLP transfer efficiency

**PLUS™ Gravity Feed High Efficiency Air Cap**

#410 air cap Primers, base coats, clearcoats, single stage and low VOC

Air cap pattern	30-40 PSI Gravity Tips:	9-11 CFM 1.0 mm, 1.2 mm, <b>1.3 mm, 1.4 mm,</b> 1.6 mm, 1.8 mm
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12 1/2"



Air Cap Order No. **192174**  
Air Cap Model No. **AV-440-410**

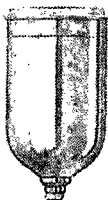
Included tip sizes shown in bold

**PLUS™ Gravity Feed**

Order No. Model No.	Fluid Tip (mm)	Inlet Air Pressure	Applications
<b>110264</b>	1.2 & 1.3	25-35 PSI	Base coats
<b>GFG-670</b>		30-40 PSI	High solids clearcoats
(Includes 1.2 mm, 1.3 mm, and 1.4 mm fluid tips)		30-40 PSI	Single stages
		25-30 PSI	Waterbornes
	1.4	30-40 PSI	Low solids clearcoats
		30-40 PSI	Single stages

**ACCESSORIES**

**120175**  
**GFC-502**  
1-Liter aluminum gravity cup



**802187**  
**DGI-501-PSI**  
Digital pressure gauge



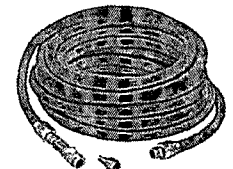
**130095**  
**HAF-507-K2**  
Whirlwind filter



**192246**  
**BXX-1250**  
Single gun case



**220052**  
**HA-5867**  
3/4" HVLP air hose assy. (35')





South Coast Air Quality Management District  
21865 Copley Dr  
Diamond Bar, CA 91765  
(909) 396-2000 [www.aqmd.gov](http://www.aqmd.gov)

August 9, 2002

Mr. Mark Charpie  
Manager – Research and Engineering  
ITW Automotive Refinishing  
1724 Indian Wood Circle  
Maumee, OH 43537-4048

Dear Mr. Charpie:

Subject: Rule 1151 Transfer Efficiency Approval of ITW DeVilbiss GFG-670 (Plus)  
Spray Gun

The South Coast Air Quality Management District has completed our review of your report entitled "Evaluation of the DeVilbiss Plus spray gun for use in the SCAQMD area" dated June 6, 2002 including the accompanying laboratory data dated April 23, 2002 and supplemental information dated June 12, 2002. The results of the transfer efficiency testing performed indicate that the ITW DeVilbiss GFG-670 (Plus) spray gun is capable of achieving equivalent or better transfer efficiency than high-volume, low-pressure spray equipment. As a result, the DeVilbiss GFG-670 spray gun is approved for operations subject to Rule 1151, Motor Vehicle and Mobile Equipment Non-Assembly Line Coating Operations, under Rule 1151(c)(4)(A)(iii). This approval is subject to the following conditions.

1. ITW Automotive Refinishing shall supply written notification to each individual purchasing the ITW DeVilbiss GFG-670 spray gun for use within the jurisdiction of the South Coast Air Quality Management District that the gun is only approved for the application of coatings subject to Rule 1151.
2. This approval is only valid if the air pressure supplied to the ITW DeVilbiss GFG-670 spray gun is equal to or less than 40 PSIG. ITW Automotive Refinishing shall supply written notification to each individual purchasing the ITW DeVilbiss GFG-670 spray gun that the maximum air pressure supplied to the spray gun shall not exceed 40 PSIG.

3. ITW Automotive Refinishing shall supply a spray gun mounted needle valve and a pressure gauge clearly identifying the maximum allowable spray gun inlet air pressure to each individual purchasing an ITW DeVilbiss GFG-670 spray gun for use within the jurisdiction of the South Coast Air Quality Management District. ITW Automotive Refinishing shall supply written notification to each individual purchasing the ITW DeVilbiss GFG-670 spray gun that the spray gun mounted needle valve and pressure gauge shall be attached to the spray gun and be in good working condition whenever the spray gun is in operation.
4. This approval is only valid for the ITW DeVilbiss GFG-670 spray gun model tested.

If you have any questions regarding this approval, please call me at (909) 396-2576.

Sincerely,

Fred Lettice /s  
Senior Manager  
Coating, Printing & Aerospace Operations

FEL

cc: Glenn Kasai

**PAINT ARRESTANCE FILTER TEST REPORT**  
 Spray Removal Efficiency & Paint Holding Capacity

Tested for: Superior Glass Fibers  
 Filter Mfr.: Superior  
 Filter Name/Model: PA-21  
 Report#/Test#: R026 T061  
 Report Date: Oct. 7, 1996

**Test Information**

**FILTER DESCRIPTION:**

white fiberglass w/thin blue fiberglass backing layer

**PAINT DESCRIPTION:**

High Solids Baking Enamel (S.W.#1 Permaclad 2400, red)

**PAINT SPRAY METHOD:**

Conventional Air Gun at 40 PSI

**SPRAY FEED RATE:**

141 gr/min                      130 cc/min

**AIR VELOCITY:**

150 FPM

**Test Results**

**INITIAL PRESSURE DROP of Clean Test Filter**

0.04 in. water

**INITIAL PRESSURE DROP of Loaded Test Filter**

0.51 in. water

**WEIGHT GAIN on TEST FILTER & Test Frame Trough**

3278 grams

**PAINT HOLDING CAPACITY of TEST FILTER**

2185 grams -                      4.8 lbs.

**PAINT RUN-OFF**

1159 grams

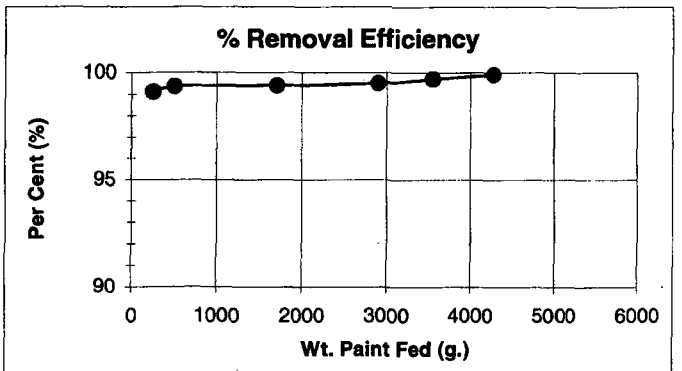
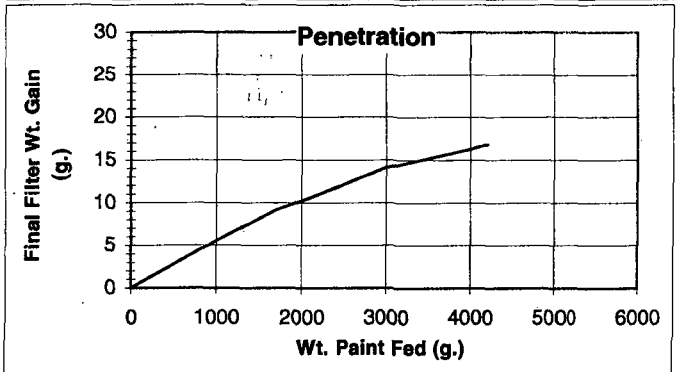
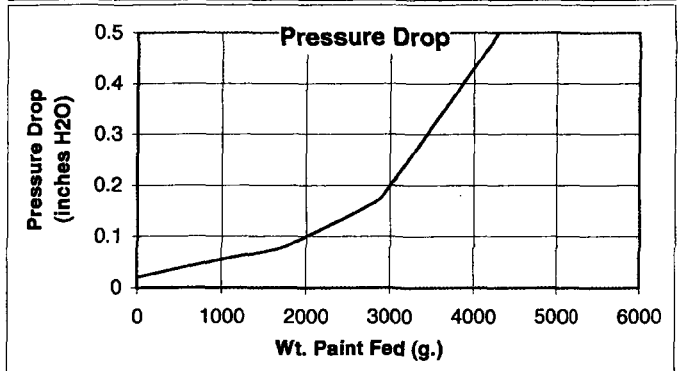
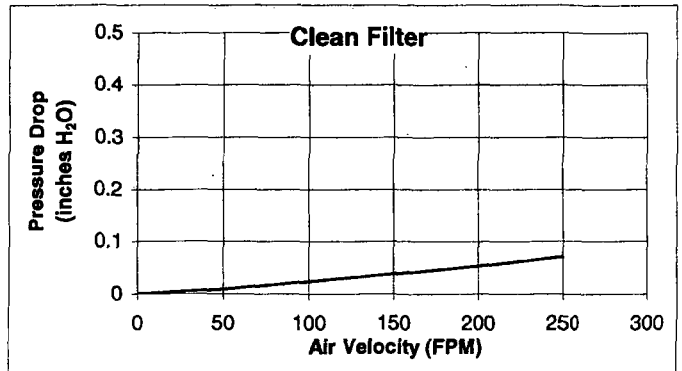
**WEIGHT GAIN - FINAL FILTER**

16.8 grams - PENETRATION

**AVERAGE REMOVAL EFFICIENCY OF TEST FILTER**

99.5%

Test Engineer: P. Tuzinski  
 Supervising Engineer: K.C. Kwik, Ph.D.



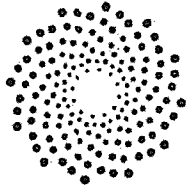
LMS Technologies, Inc.

6423 Cecilia Circle

Bloomington, MN 55439-2717



Tel: (952) 918-9060

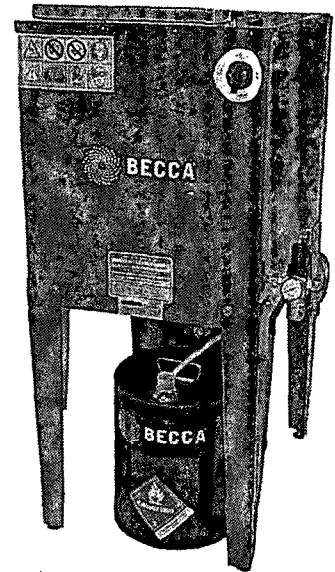
Fax: (952) 918-9061




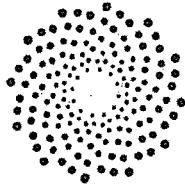
# BECCA®

## Specifications for BECCA NEXT™ 10 POWER CLEAN™ Spray Gun Cleaner

- Paint Gun Cleaner is a leg mounted cabinet style.
- Cabinet features solvent resistant Powder Coated surface.
- Ability to clean Spray Guns utilizing the  Hands-Free Enclosed Wash Basin .
-  is a patent pending feature only found on select BECCA Gun Cleaners. This technology, called Pressurized Automatic, allows the Spray Gun to be cleaned using solvent in the key fluid passageways and compressed air in the air passageways. The result is the Ultimate in cleaning, assuring a clean gun each and every time.
- Cleaning system utilizing two solvents types:
  - Used Solvent for Cleaning
  - Clean Solvent for Rinsing
- Air Operated allowing the system to meet the electrical classification requirements of Class I Division 1.
- Utilizing a rebuildable Air Operated Diaphragm Style Pump.
- Hands Free basin large enough to clean two spray guns and spray cups.
- Hands free basin will be able to clean (1) 1-gallon paint cans.
- Used Solvent must drain into containment tank at all times.
- Breather Cap or Exhaust duct capable (flange)
- Overall dimensions 18.5" wide X 23.5" Deep X 41.5" High.
- Controls to be valve operated.
- Safety Ground Clips for Solvent Containers.
- Unit Ground Strap.
- Two Year Limited Warranty



  
**PowerClean**  
Patent Pending



**BECCA<sup>®</sup>**



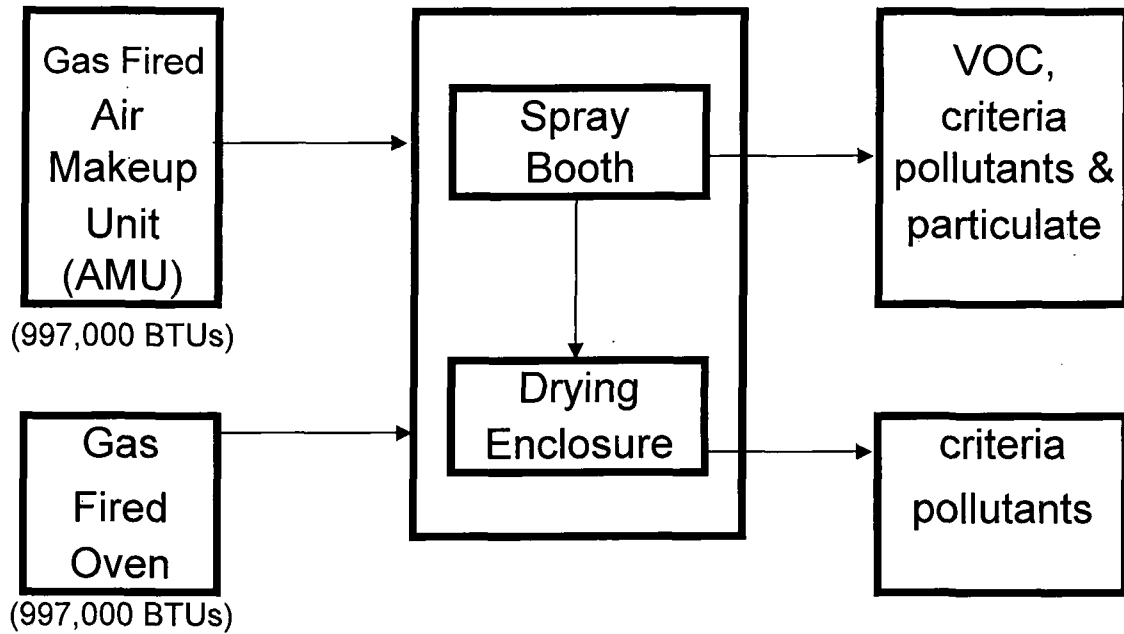
**SPECIFICATION FOR NEXT™ 10 POWER CLEAN™  
GUN CLEANERS**

**SPRAY**

<b>SPECIFICATIONS</b>	<b>U.S. UNITS</b>	<b>METRIC UNITS</b>
Weight	87 Lbs.	39.5 Kg
Height	41.5"	1054 mm
Width	18.5"	470 mm
Depth	23.5"	597 mm
Wash Basin Height	15"	375 mm
Wash Basin Depth	20"	300 mm
Wash Basin Width	12"	300 mm
Solvent Capacity of Groundable Containers (2)	5 or 10 Gal (Not Included)	20 or 40 Liters (Not Included)
Diameter of Exhaust Duct (If required))	4"	100 mm
Air Consumption at 50 psi / 8 Bar	8 – 15 cfm	.0038-.0054 cms
Capacity of System - Spray Guns per Wash	2	2
Air Supply Operating Pressure	55 psi.	4 – 5 Bar
Acoustic Pressure Level LpAm ISO-3746	68.4 dB(A)	68.4 dB(A)
Acoustic Power Level LpAm ISO-3746	79.2 dB(A)	79.2 dB(A)
Pump	Diaphragm	Diaphragm
Pump Capacity	4 Gal/min	15 Liters/min
Outside Frame steel	Ultra Powder Paint	Ultra Powder Paint
Wash Basin and work table	Stainless steel	Stainless steel
Warranty- Limited	24 months	24 months

# MAACO AUTO PAINTING

## Process Flow Diagram



**Table 1. Topcoat Analysis**

Coating	Parts	Product	Subproduct	Product #	Weight % Solids	Weight % Vol.	Density	LE VOC
Ful-Base Enamel			Topcoat (1/3)	430-52	34.84	65.16	7.96	5.2
			Binder (2/3)	435-90	41.51	58.49	7.73	4.1
	8	Ful-Base Enamel			39.29	60.71	7.81	4.5
	1	Catalyst Plus		483-08	40.0	60.0	8.16	4.9
	2	Reducer		441-22	0	100	6.91	6.9
<b>Ful-Base Enamel</b>					<b>32.2</b>	<b>67.8</b>	<b>7.68</b>	<b>4.9</b>
Ful-Cryl II Acrylic Enamel			Topcoat (1/3)	430-52	34.84	65.16	7.96	5.2
			Binder (2/3)	435-94	40.4	59.6	7.98	4.8
	8	Ful-Cryl II			38.6	61.4	7.97	4.9
	1	Catalyst		483-11	75	25	9.01	2.2
	2	Reducer		441-22	0	100	6.91	6.9
<b>Ful-Cryl II Acrylic Enamel</b>					<b>34.9</b>	<b>65.1</b>	<b>7.87</b>	<b>5.0</b>
Ful-Thane 2K Urethane			Toner (1/3)	430-52	34.84	65.2	7.96	5.2
			Binder (2/3)	435-91	42.8	57.2	8.11	4.6
	8	Ful-Base System Toner			40.1	59.9	8.06	4.8
	1	Catalyst		483-15	90	10	9.35	0.9
	2	Reducer		441-22	0	100	6.91	6.9
<b>Ful-Thane 2K Urethane</b>					<b>37.4</b>	<b>62.6</b>	<b>7.97</b>	<b>4.8</b>
Chromabase Basecoat/Clearcoat	1		Basecolor "K" (see Table 2)		43.9	56.1	7.99	5.5
	1		Basemaker	7160S	0.2	99.8	6.61	6.6
	1	Basecoat			22.0	78.0	7.3	6.0
	4		Clear	496-00	35.9	64.1	7.98	4.2
	1		Catalyst	483-79	44.1	55.9	8.36	4.7
	2	Clearcoat			37.5	62.5	8.06	4.3
<b>Chromabase Basecoat/Clearcoat</b>					<b>39.6</b>	<b>60.4</b>	<b>7.80</b>	<b>4.9</b>



## Table 2. Chromabase Basecoat Details

Sample color: Gray Blue-Effect  
K8620K

DuPont Color	Mix (g)	density (lb/gal)	Mix (gal)	volume percent	VOC (lb/gal)	TOTAL VOC (lb/gal)	Weight % solids		TOTAL Weight % Solids
814J	63.1	9.15	0.015204	0.041128	4.7	0.193301	48.39	0.178937	8.658773
806J	120.2	8.25	0.032121	0.086892	4.3	0.373634	47.7	0.176386	8.413601
811J	151.1	9.25	0.036013	0.097421	4.9	0.477361	47.18	0.174463	8.231159
827J	174.1	7.94	0.048341	0.130769	5.6	0.732309	28.99	0.1072	3.107718
820J	189.9	7.96	0.052595	0.142279	5.2	0.739849	34.93	0.129165	4.511722
802J	198.6	8.52	0.05139	0.139017	4.0	0.556067	53.57	0.198092	10.61178
150K	443.1	7.29	0.134002	0.362495	6.6	2.392467	9.67	0.035758	0.345779
	1340.1		0.369665			<b>5.464988</b>	270.43		<b>43.88054</b>

TOTAL DENSITY    7.992176 lb/gal

**Table 3. VOC Emissions**

Product Type	Amount Applied per hour (gal)	LE VOC content (# VOC/gal coating)	Actual hours per year	Potential hours per year	Actual Emissions (tons/year)	Potential Emissions (tons/year)
<b>Topcoats &amp; Metallic Topcoats</b>						
Ful-Base Enamel	0.95	4.9	312	1314	0.73	3.06
Ful-cryl II Topcoat	0.95	5.0	312	1314	0.74	3.12
Ful-thane 2K urethane	0.95	4.8	416	1752	0.95	3.99
Chromabase Basecoat/Clearcoat	0.25	4.9	1040	4380	0.64	2.68
Sub-total			2080	8760		
<b>Pretreatment Wash Primer</b>						
1:etch primer/1: activator	0.075	6.2	1040	4380	0.24	1.02
<b>Primer Sealer</b>						
422-23 Ful-Seal	0.25	4.6	1040	4380	0.60	2.52
Sub-total			2080	8760		
<b>Primer/Primer Surfacer</b>						
2K Urethane Primer	0.075	4.6	2080	8760	0.36	1.51
<b>Wash Thinner (cleanup)</b>	0.02875	6.9	2080	8760	0.21	0.87
<b>Total:</b>					<b>4.46</b>	<b>18.77</b>

Note: Combining the total topcoat applications together results in an actual hourly operation of 2080 hours and a potential hourly operation of 8760 hours. Combining the pretreatment wash primer and primer sealer applications results in an actual hourly operation of 2080 hours and a potential hourly operation of 8760 hours.

**Table 4. HAP Analysis**

Coating/Regulated Toxic	Parts	Product	Subproduct	Product #	Amount Applied Per Hour (gals)	% BW in product	Density (lb/gal)	VOC (lb/gal)	actual (hrs/day)	actual emissions (lb/day)
<b>Topcoats</b>										
			Topcoat (1/3)	430-52			7.96	5.2		
			Binder (2/3)	435-90			7.73	4.1		
	8	Ful-Base Enamel					7.81	4.47		
	1	Catalyst Plus		483-08			8.16	4.9		
	2	Reducer		441-22			6.91	6.9		
<b>Ful-Base Topcoat</b>					<b>0.950</b>		<b>7.68</b>	<b>4.9</b>	<b>1.20</b>	
ethyl benzene						1.7212%				0.15
toluene						2.7273%				0.24
ethylene glycol monobutyl ether acetate						1.4545%				0.13
1,2,4 trimethyl benzene						0.6730%				0.06
isophorone diisocyanate						0.0909%				0.01
naphthalene						0.0970%				0.01
xylene						6.5455%				0.57
			Topcoat (1/3)	430-52			7.96	5.2		
			Binder (2/3)	435-94			7.98	4.8		
	8	Ful-Cryl II					7.97	4.9		
	1	Catalyst		483-11			9.01	2.2		
	2	Reducer		441-22			6.91	6.9		
<b>Ful-Cryl II Acrylic Enamel</b>					<b>0.950</b>		<b>7.87</b>	<b>5.0</b>	<b>1.2</b>	
ethyl benzene						2.1455%				0.19
toluene						4.1540%				0.37
xylene						8.4848%				0.76
ethylene glycol monobutyl ether acetate						2.3341%				0.21
1,6-hexamethylene diisocyanate						0.0091%				0.00
1,2,4 trimethyl benzene						0.7273%				0.07
cumene						0.0000%				0.00
naphthalene						0.0000%				0.00
methyl isobutyl ketone						0.5668%				0.05
			Toner (1/3)	430-52			7.96	5.2		
			Binder (2/3)	435-91			8.11	4.6		
	8	Ful-Base System Toner					8.06	4.80		
	1	Catalyst		483-15			9.35	0.9		
	2	Reducer		441-22			6.91	6.9		
<b>Ful-Thane 2K Urethane</b>					<b>0.950</b>		<b>7.97</b>	<b>4.83</b>	<b>1.60</b>	
ethyl benzene						1.9152%				0.23
toluene						4.0785%				0.49
xylene						7.5242%				0.91
1,6-hexamethylene diisocyanate						0.0182%				0.002
1,2,4-trimethyl benzene						0.6955%				0.06
cumene						0.0091%				0.00
naphthalene						0.0000%				0.00
methyl isobutyl ketone						0.7413%				0.09
	0.041128		chromabase tint	814J			9.15	4.7		
	0.086892		chromabase tint	806J			8.25	4.3		
	0.097421		chromabase tint	811J			9.25	4.9		
	0.130769		chromabase tint	827J			7.94	5.6		

	0.142279	chromabase tint	820J		7.96	5.2		
	0.139017	chromabase tint	802J		8.58	4.0		
	0.362495	balancer	150K		7.29	6.6		
		K8620K			8.00	5.46		
	1	Basemaker	7160S		6.61	6.6		
	1	Chromabase Basecoat			7.31	6.03		
	4	Clear	496-00		7.98	4.2		
	1	Catalyst	483-79		8.36	4.7		
	2	Clearcoat			8.06	4.30		
<b>Chromabase Basecoat/Clearcoat</b>				<b>0.250</b>	<b>7.81</b>	<b>4.88</b>	<b>4.00</b>	
ethyl benzene					4.4089%			0.34
xylene					16.1563%			1.26
toluene					5.2667%			0.41
1,2,4 tri methyl benzene					2.0137%			0.16

**Pretreatment Wash Primer**

	1	Etch Primer	491-17		7.90	5.70		
	1	Activator	441-43		6.86	6.70		
<b>Etch Primer</b>				<b>0.075</b>	<b>7.38</b>	<b>6.20</b>	<b>4</b>	
n-butyl alcohol					44.5%			0.99
methyl isobutyl ketone					6.0%			0.13

**Prime Sealer**

<b>422-23 Ful-Seal Select</b>			422-23	<b>0.25</b>	<b>8.24</b>	<b>4.6</b>	<b>4</b>	
toluene					3.0%			0.25
ethyl benzene					0.7%			0.06
naphthalene					0.1%			0.01
xylene					2.7%			0.22

**Primer Surface**

	4	SelectPrime 2K Primer	421-17		11.88	4.4		
	1	SelectPrime Activator	483-87		8.01	5.3		
<b>2K Urethane Primer</b>				<b>0.075</b>	<b>11.106</b>	<b>4.58</b>	<b>8.00</b>	
ethyl benzene					5.0%			0.332
toluene					3.0%			0.20
xylene					20.0%			1.33

**INDIVIDUAL HAP SUBTOTAL**

	CAS	(lb/day)	(tpy)
toluene	108-88-3	1.96	0.26
xylene	1330-20-7	5.06	0.66
methyl isobutyl ketone	108-10-1	0.28	0.037
ethyl benzene	100-41-4	1.31	0.170
1,6-hexamethylene diisocyanate	822-06-0	0.0030	0.0004
1,2,4-Trimethylbenzene	95-63-6	0.34	0.0445
cumene	98-82-8	0.01	0.0011
n-butyl alcohol	71-36-3	0.9852	0.1281
naphthalene	91-20-3	0.0082	0.0011

**TOTAL HAP**

**1.3**

**Table 5. Particulate Emissions**

MAACO ENTERPRISES

Particulate Emission Calculations

Without control

A	B	C	D	E	F=(B*C*D*E)
Product Type	Amount applied per week (gal)	Percent Overspray	solids content (# solids/gal coating)	Weeks per year	Emissions (lbs/year)
Pretreatment Wash Primer	2	35%	2.06	52	75
Primer/Primer Surface	3	35%	5.79	52	316
Prime Sealer	10	35%	5.11	52	930
Topcoat (as applied)	45	35%	3.04	52	2490

Particulate Filters have a specification of 99.5 % removal efficiency

**TOTAL: 3810.67**

With control

Pretreatment Wash Primer	0.37 lbs/yr
Primer/Primer Surface	1.58 lbs/yr
Prime Sealer	4.65 lbs/yr
Topcoat (as applied)	12.45 lbs/yr

**TOTAL: 19.05 lbs/yr**

Table 6. Air Makeup Unit Emissions

EPA's AP-42 for Natural Gas

<u>Drying Oven</u>	<u>pollutant</u>	<u>AP-42 factor lb/10<sup>6</sup> scf</u>	<u>Unit scfh</u>	<u>lbs/hr</u>
	Partic	7.6	997	0.0076
	NOx	94	997	0.0937
	CO	40	997	0.0399
	SO2	0.6	997	0.0006
	VOC	5.5	997	0.0055
<u>Spray Booth</u>	<u>pollutant</u>	<u>AP-42 factor lb/10<sup>6</sup> scf</u>	<u>Unit scfh</u>	<u>lbs/hr</u>
	Partic	7.6	997	0.0076
	NOx	94	997	0.0937
	CO	40	997	0.0399
	SO2	0.6	997	0.0006
	VOC	5.5	997	0.0055
				<u>Total Burner Emissions</u>
	Partic			0.015154
	NOx			0.187436
	CO			0.07976
	SO2			0.001196
	VOC			0.010967

**Table 7.**

**Garmat Tier 1 Booth and Oven Emissions  
Criteria Pollutants  
Emission Factors for Natural Gas from EPA's AP-42**

	<b>Burners (2) 997000 Btu (lbs/hr)</b>	<b>Paint Spray Booth Potential Emissions (lbs/hr)</b>			<b>Paint Spray Booth Actual Emissions 99.5 % Filter Efficiency (lbs/hr)</b>		
<b>Particulate</b>	0.0152			1.83			0.02435
<b>NOx</b>	0.1874			0			0
<b>SOx</b>	0.0012			0			0
<b>CO</b>	0.0798			0			0
<b>VOC</b>	0.011			4.3			4.3
		<b>Total Potential Emissions</b>			<b>Total Actual Emissions</b>		
		(lbs/hr)	(tons/yr)	(lbs/day)	(lbs/hr)	(tons/yr)	(lbs/day)
<b>Particulate</b>		1.8	8.1	44.3	0.04	0.04	0.32
<b>NOx</b>		0.19	0.82	4.50	0.19	0.19	1.50
<b>SOx</b>		0.0012	0.005	0.0288	0.0012	0.0012	0.0096
<b>CO</b>		0.080	0.350	1.92	0.080	0.08	0.64
<b>VOC</b>		4.3	18.9	103.5	4.3	4.46	34.32



TSI Compliance Services, Inc.

May 28, 2009

FDEP Receipts  
PO Box 3070  
Tallahassee, FL 32315-3070  
Dear Permit Administrator:

TSI Compliance Services (TSI) is requesting that the Department please provide TSI with the MAACO shop permit identification number upon approval, or at the time the permit is issued.

Providing the permit identification number will greatly assist MAACO Franchising with records of permitted facilities.

You may provide the permit number via email to [MScheuring@TSICompliance.com](mailto:MScheuring@TSICompliance.com) or using the phone or fax numbers at the footer of this letter.

Thank You,

Marc Scheuring, Environmental Technician  
TSI Compliance Services

7700 JUN 3 11 55 AM '09

*Excellence in Air Testing and Technical Services*

200 Bethlehem Drive, Suite 205, Morgantown, PA 19543  
Phone 610-286-0305 Fax 610-286-0306