

**SURFACE COATING OPERATIONS
AIR GENERAL PERMIT REGISTRATION FORM**

JUN 15 2009

Bureau of Air Monitoring
& Mobile Sources

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)

0990598-004

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):
The permit for this facility in the past was through the Palm Beach County Health Department, a new owner and corporation has purchased the existing shop _____
- 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.)

David Stefan **CCW of PALM BEACH 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: 804 Old Dixie Highway, Suite # 4

City: Lake Park

County: Palm Beach

Zip Code: 33403

Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility)
June 22, 2009 * Please note equipment is existing and previously permitted under the Palm
Beach County Health Department

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.

CCW of Palm Beach, LLC. dba MAACO Collision Repair and Auto Painting, is an auto body shop used for the refinishing and resurfacing of automobiles. This facility contains a Team Blowtherm 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 heat for paint curing is generated from a 1.263 MMBtu 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

Initial Notification

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

1. **Company Name (if applicable)** CWC of Palm Beach, LLC. dba MAACO Collision Repair and Auto Painting

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

a. Owner's Name and Title David Stefan, Owner

Owner's Street Address 11978 179th Court N. Jupiter FL 33478
Street City State Zip

Owner's telephone number (561) 301-9616 Cellular

Owner's email (if available) david@dstefan.com

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**

804 Old Dixie Highway, Suite #4 Lake Park FL 33403
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 6-2009
 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

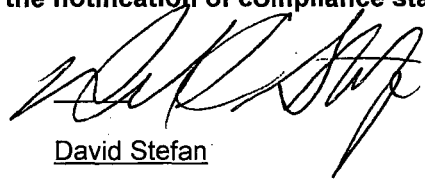
(There is no need to sign below, you must sign a statement by March 11, 2011)

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

David Stefan



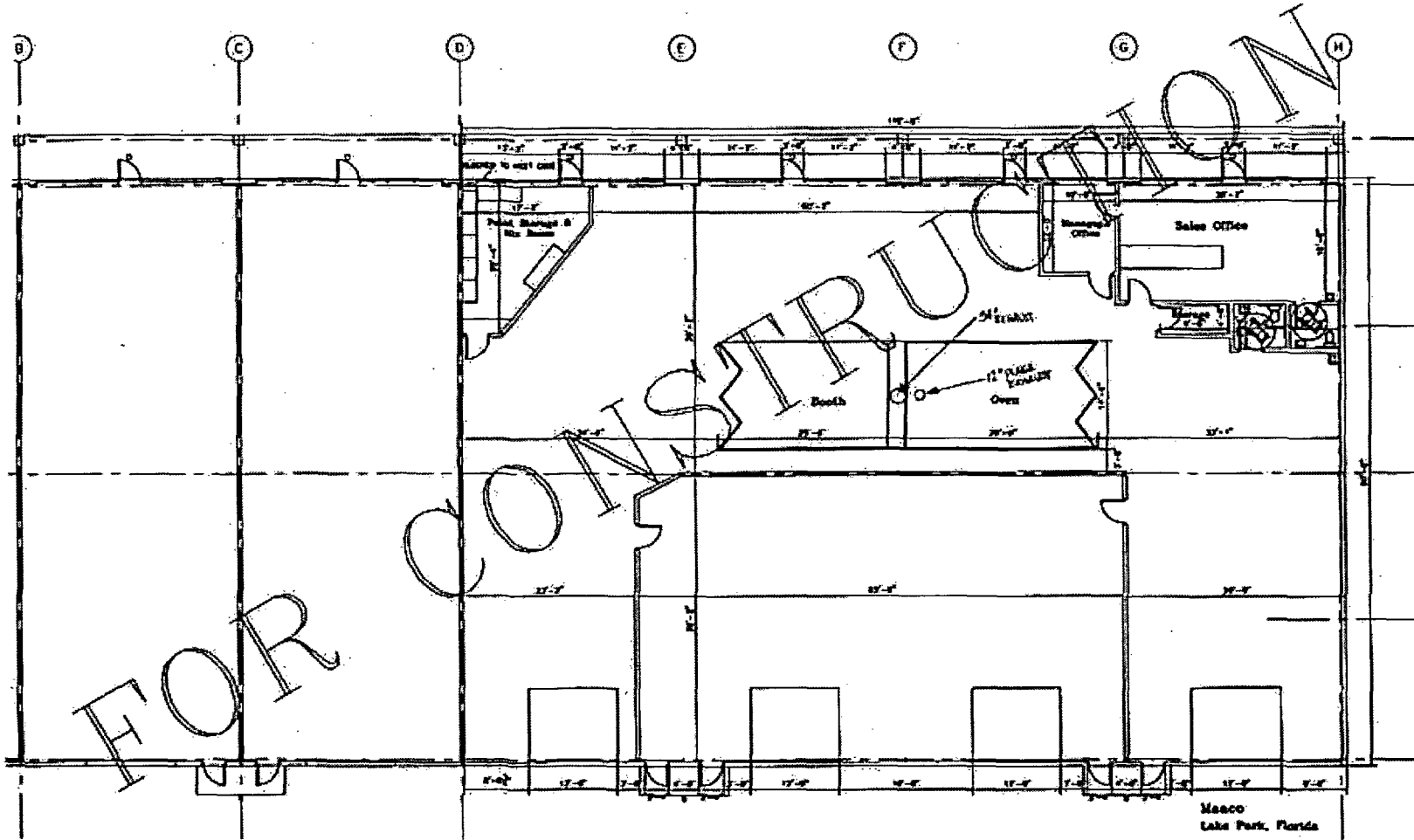
Drawing and Specifications

PRESSURIZED SEMI-DOWN DRAFT SPRAY BOOTH QUARTZ DRYING ENCLOSURE

Manufacture	Type		Model #	Dimensions
Team Blowtherm or Equivalent	Pressurized Semi-Down Draft Spray Booth w/34" fan, 3 HP, 3 Phase. 9150 CFM's @ .75" S.P. Air Make Up Unit: Weather-Rite (or Equivalent) Model # TOT 215 5 HP, 3 Phase, 1,263,000 BTU's, 9150 CFM's. NATURAL GAS		Pressurized Semi-Down Draft	14' 4" x 27' 5"
Team Blowtherm or Equivalent	Drying Enclosure w/Quartz Tubes		Quartz Drying System	14' 4" x 24' 2"
	Overall Spray Booth & Drying Enclosure Dimensions Purge Fan 12", 1/3HP, 3 phase, 600 CFM @ .25" S.P.			14' 4" x 51' 7 1/2"
Filter Info	Paint Arrestor - Paint Pocket Expanded Ply-Polyester or Equivalent Air Intake <u>Plenum</u> Filters - Spray Booth Air Intake Filters- Drying Enclosure		29-2358	(12) 20" x 25" (2) 144" x 81" (2) 20" x 48"
Hercules	Gun Washer		GWR-T	
DeVilbiss	HVLP Spray Gun		GTI - 520P-11 Spray Gun and GFG-670 Plus Gravity Gun/Cup	

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NOTES



FOR

CONSTRUCTION

SAMPLE PLANS
MUST BE SITE ADAPTED
FOR SPECIFIC PROJECT
NOT FOR CONSTRUCTION.

PROFESSIONAL ENDORSEMENT

Plans to be prepared, signed and sealed by licensed architect and engineer in accordance with the National Regulations of the state of the project in Florida.

PROJECT

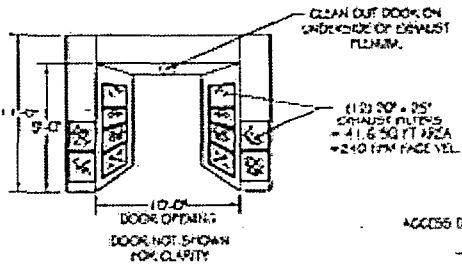


Maaco Enterprises, Inc.
King of Prussia, Pennsylvania

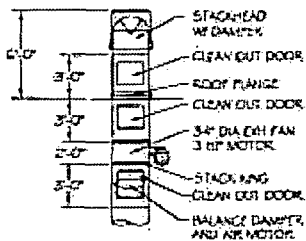
PROJECT NO.	000001
PROJECT FILE	
DATE	AUGUST 22, 85
PLOT SCALE	1/8" = 1'
REVISIONS	

SHEET
SCHEMATIC

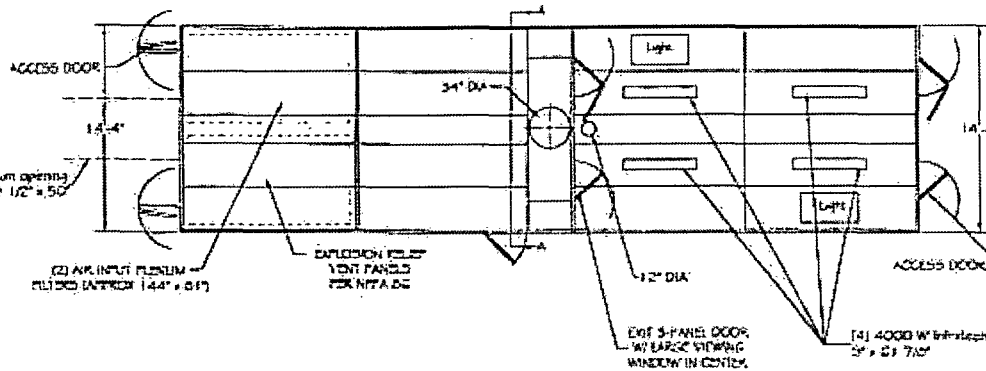
Maaco
Lake Park, Florida



ELEVATION A-A



ELEVATION B-B

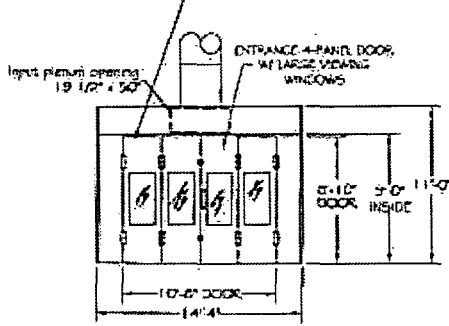


SPECIFICATIONS

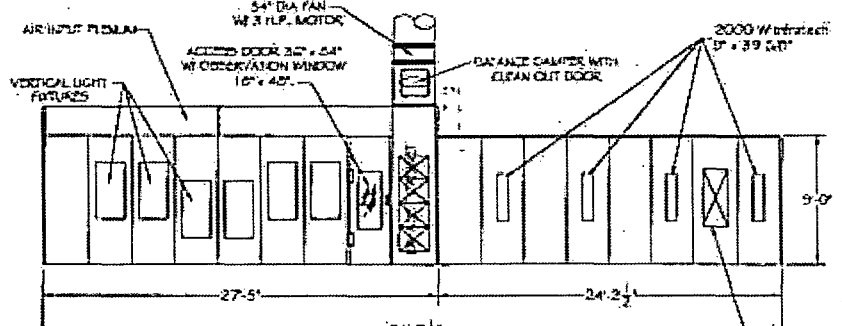
- A) PAINT SPRAY BOOTH
 - CONSTRUCTION: (1) 34" DIA TUBE AXIAL FAN WITH A 3 HP ZIEHL-ABOOTH 230-4 MOTOR 3 PHASE TYPICAL CAPACITY: 2,150 CFM @ 34" x 27"
 - EXHAUST BOOTH AIR INLET: (2) SIDA THERM ULTRACH TYPE: 144" x 61" HIGH EFFICIENCY, NON WOVEN POLYESTER FIBROG FIBERS, 99.9% EFFICIENCY @ 10 MICRONS, # 303 219 02
 - EXHAUST: (1) 20" X 22" PAINT PUCKET 3 DIMENSIONAL EXPANDED-PLY POLYESTER 99.9% EFFICIENCY (AVE. DISTANCE) # 232-0302
- B) DRYING CHAMBER
 - EXHAUST: (2) 20" x 40" FRESH AIR PUCK, MUST UNLOCK TITE WITH ADHESIVE TACKING.
 - EXHAUST: (1) 20" X 40" FRESH AIR PUCK, TUBE AXIAL FAN, 1/2 HP TO EXHAUST 600 CFM, 3 PHASE - SUPPLIED BY MAACO.
- C) STANDARD FEATURES:
 - LIGHTING: (4) 41 HOUR TUBE CLASS I DRY II FEATURES
 - CONSTRUCTION: 18 GA. GALVANIZED, PAINTED WHITE
 - GLASS: TEMPERED, 3/16" THK. EXCESS AND 27.1" STANDARD
 - EXHAUST: QUARTZ TUBES
 - (1) 2000W W/airtech 5" x 39 5/8"
 - (1) 4000W 5" x 61 7/8"

PERSONNEL SAFETY DOORS ARE EQUIPPED WITH CHAF LOCKS. ALL OTHER DOORS ARE EQUIPPED WITH CLOSING ROD OVER CENTER DOOR LATCHES

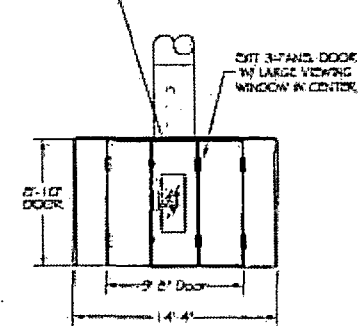
PERSONNEL SAFETY DOORS ARE EQUIPPED WITH CHAF LOCKS. ALL OTHER DOORS ARE EQUIPPED WITH CLOSING ROD OVER CENTER DOOR LATCHES



FRONT VIEW



RIGHT SIDE VIEW



REAR VIEW

© Team Blawtherm 1998

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All Dimensions are approximate and subject to change. Customers must check equipment size, location & mounting and all equipment in building and ground.

DESCRIPTION OF DRAWING:		
General Arrangement		
DRAWING NO	REV. NO	REV.

V. M. J. CO. 1000 W. 100' ST. S. MAACO, MISSOURI
 MAACO
 MISSOURI

RECEIVED NOV 28 2001

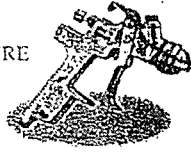
Herkules

Does Them All...

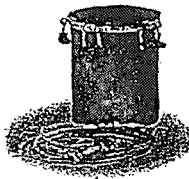


ONE MINUTE
AUTOMATIC... SAVES
AN HOUR A DAY

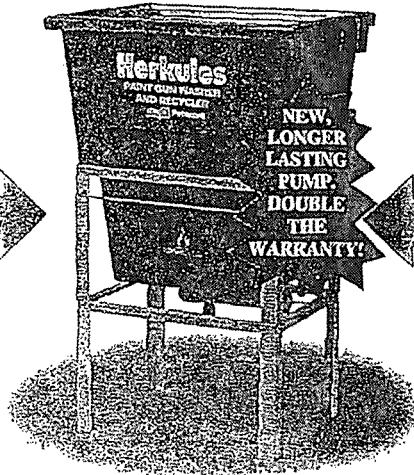
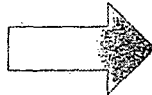
HVLP, SIPHON,
GRAVITY, PRESSURE
SPRAY GUNS



SPRAY NOZZLES CLEAN
INSIDE AND OUTSIDE OF
PAINT EQUIPMENT



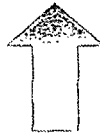
PRESSURE POTS AND
PAINT LINES



CUPS, PAINT CANS,
STRAINERS



ENCLOSED AND
AUTOMATIC FOR LESS
VOC EMISSIONS AND
SKIN CONTACT



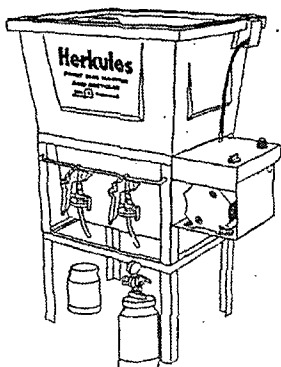
LACQUER TO
WATERBORNE MATERIALS



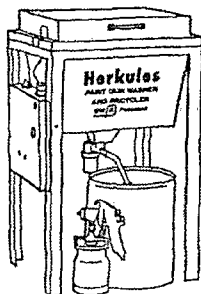
75% LESS SOLVENT
USE. LESS PICKUP.
NO COSTLY RENTAL

Faster, Cleaner, Safer... and For Less

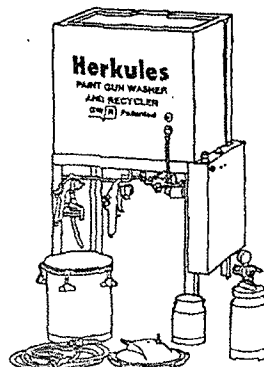
Herkules, the recommended Paint Gun Washer for Faster 'n Better body shops.



GW/R-T



0500 (MINI GW/R-T)



GW/R-3-100-SS-T

PLASTIC TANK — PAINT GUN WASHERS

	GW/R-T	GW/R-SC <small>FMI APPROVED</small>	0500 (MINI GW/R-T)	GW/R-2-T AND 0505 (MINI)	GW/R-3-T
CLEANING SOLUTIONS:	Lacquer Thinner	Lacquer Thinner	Lacquer Thinner	Lacquer Thinner or Water Based	Lacquer Thinner
CLEANS:	2 guns — 2 cups 2 qt. pots to 14" Accessories	2 guns — 2 cups 2 qt. pots to 14" Accessories	1 gun — 1 cup 2 qt. pots to 13" Accessories	GW/R-2-T cleans 2 guns, cups 0505 cleans 1 gun, cup Accessories	2 guns — 2 cups 2 qt. pots to 14" 5 gal. cans Paint Lines Accessories
PUMP:	Diaphragm	Piston w/Safety Can	Diaphragm	Diaphragm	Diaphragm
FILTER/REG.:	Yes	--	Yes	Yes	Yes
TIMER:	Yes	--	Yes	Yes	Yes
OILER:	Not Required	Yes	Not Required	Not Required	Not Required

STAINLESS STEEL TANK — PAINT GUN WASHERS

	GW/R-SDS-T	GW/R-SDS-TR	GW/R-100-SS-T	GW/R-3-100-SS-T	GW/R-200-SS-T (DOUBLE SS TANK)
CLEANING SOLUTIONS:	Lacquer Thinner	Lacquer Thinner	Lacquer Thinner or Water Based	Lacquer Thinner or Water Based	Lacquer Thinner or Water Based
CLEANS:	2 guns — 2 cups 2 qt. pots to 15" Accessories	2 guns — 2 cups 2 qt. pots to 15" Accessories	2 guns — 2 cups 2 qt. pots to 15" Accessories	2 guns — 2 cups 2 qt. pots to 15" 5 gallon cans Paint Lines Accessories	4 guns — 4 cups 2 qt. pots to 15" Accessories
PUMP:	Diaphragm	2 Diaphragms	Diaphragm	Diaphragm	Diaphragm
FILTER/REG.:	Yes	Yes	Yes	Yes	Yes
TIMER:	Yes	Yes	Yes	Yes	Yes
RINSE CYCLE:	---	Yes	---	---	---
LID OPENER:	--	--	Yes	Yes	---



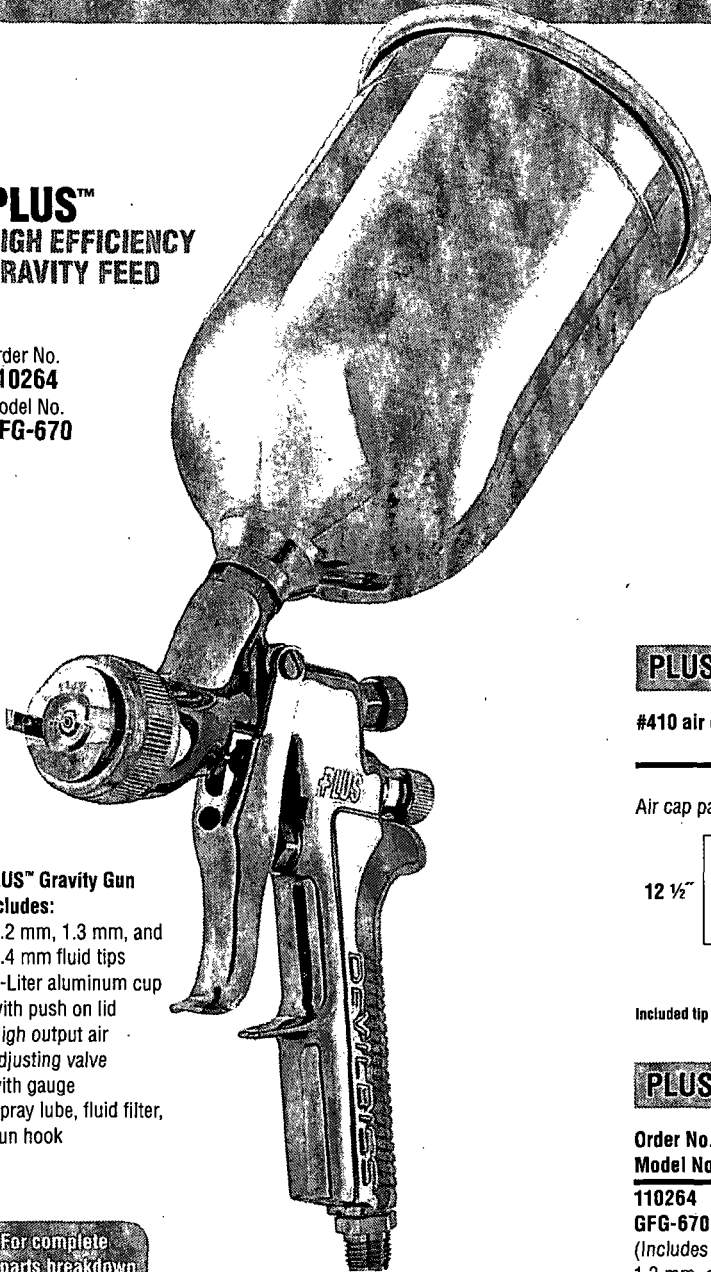
Herkules

2760 Ridgeway Court ■ Walled Lake, MI 48390-1662
810-960-7100 ■ 1-800-444-4351 ■ Fax 810-960-7109

GW/R-0595

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, 1.3 mm, 1.4 mm, 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**

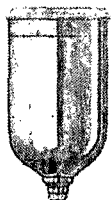
Included tip sizes shown in bold

PLUS™ Gravity Feed

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

ACCESSORIES

120175
GFC-502
1-Liter aluminum
gravity cup



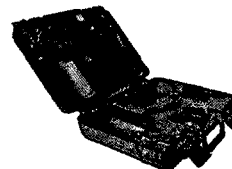
802187
DGI-501-PSI
Digital pressure gauge



130095
HAF-507-K2
Whirlwind filter



192246
BXX-1250
Single gun case



220052
HA-5867
3/8" HVLP air hose
assy. (35')



Tables 1 through 7 Emission Calculations

Table 1. Topcoat Analysis

Coating	Parts	Product	Subproduct	Product #	Weight		Density	LE VOC
					% Solids	% Vol.		
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
	Ful-Base Enamel					32.2	67.8	7.68
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
	Ful-Cryl II Acrylic Enamel					34.9	65.1	7.87
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
	Ful-Thane 2K Urethane					37.4	62.6	7.97
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
Chromabase Basecoat/Clearcoat					39.6	60.4	7.80	4.9

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			5.464988	270.43		43.88054

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)
Topcoats & Metallic Topcoats						
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		
Pretreatment Wash Primer						
1:etch primer/1: activator	0.075	6.2	1040	4380	0.24	1.02
Primer Sealer						
422-23 Ful-Seal	0.25	4.6	1040	4380	0.60	2.52
Sub-total			2080	8760		
Primer/Primer Surfacer						
2K Urethane Primer	0.075	4.6	2080	8760	0.36	1.51
Wash Thinnner (cleanup)	0.02875	6.9	2080	8760	0.21	0.87
Total:					4.46	18.77

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)
Topcoats										
			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		
Ful-Base Topcoat					0.950		7.68	4.9	1.20	
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
<hr/>										
			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		
Ful-Cryl II Acrylic Enamel					0.950		7.87	5.0	1.2	
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
<hr/>										
			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		
Ful-Thane 2K Urethane					0.950		7.97	4.83	1.60	
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
<hr/>										
	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		
Chromabase Basecoat/Clearcoat			0.250	7.81	4.88	4.00
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		
Etch Primer			0.075	7.38	6.20	4
n-butyl alcohol				44.5%		0.99
methyl isobutyl ketone				6.0%		0.13

Prime Sealer

422-23 Ful-Seal Select			422-23	0.25	8.24	4.6	4
toluene				3.0%		0.25	
ethyl benzene				0.7%		0.06	
napthalene				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	
2K Urethane Primer			0.075	11.106	4.58	8.00
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
napthalene	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/10⁶ scf</u>	<u>Unit scfh</u>	<u>Total Burner Emissions lbs/hr</u>
	Partic	7.6	1263	0.0096
	NOx	94	1263	0.1187
	CO	40	1263	0.0505
	SO2	0.6	1263	0.0008
	VOC	5.5	1263	0.0069

Table 7.

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

	Burners 1263000 Btu (lbs/hr)	Paint Spray Booth Potential Emissions (lbs/hr)	Paint Spray Booth Actual Emissions 99.5 % Filter Efficiency (lbs/hr)			
Particulate	0.0096	1.83	1.8396			
NOx	0.1187	0	0			
SOx	0.0505	0	0			
CO	0.0008	0	0			
VOC	0.0069	4.3	4.3069			
	Total Potential Emissions			Total Actual Emissions		
	(lbs/hr)	(tons/yr)	(lbs/day)	(lbs/hr)	(tons/yr)	(lbs/day)
Particulate	1.8	8.1	44.2	1.85	1.92	14.79
NOx	0.12	0.52	2.85	0.12	0.12	0.95
SOx	0.0505	0.221	1.21248	0.0505	0.0525	0.40416
CO	0.001	0.003	0.02	0.001	0.00	0.01
VOC	4.3	18.9	103.4	4.3	4.46	34.32



TSI Compliance Services, Inc.



RECEIVED

June 3, 2009

JUN 15 2009

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

Bureau of Air Monitoring
& Mobile Sources

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 or using the phone or fax numbers at the footer of this letter.

Thank You,

Marc Scheuring, Environmental Technician
TSI Compliance Services

2009 JUN 12 11 04 AM
BUREAU OF AIR MONITORING
& MOBILE SOURCES

Excellence in Air Testing and Technical Services

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