

**Department of Natural Resources and Environmental Control
Division of Air Quality
PERMIT APPLICATION**

**AQM-1001G
METAL CLEANING DEGREASERS**

DEPARTMENT USE, ONLY

**Depending upon the type of degreasing operation, complete the corresponding section only.
If more than one degreaser is located at this plant, make additional copies of this form, as necessary.**

I.D.:

SECTION I. COLD CLEANING DEGREASER, ONLY

EMISSION UNIT NO.:
LOCATION WITHIN FACILITY:

1. Manufacturer or Description:

Inside Diameter of Tank (ft): Width: Length: Depth:

Freeboard Height: feet

Date Installed: / /

Type: Dip Tank

Maximum Operation: hours/day days/week weeks/year

2. Solvent Type (Mineral Spirits, Stoddard, etc.):
Attach MSDS for each solvent used

Maximum Amount Used: gallons/hour gallons/year

Solvent Volatility at 68°F: mmHg

3. Equipment Design

Is the degreaser equipped with:

Tank Cover: Yes
 Drainage Board: Yes If Yes, Type of Board: Internal
 Is Solvent Sprayed? Yes If Yes, Spray Pressure: psi
 Agitation: Yes If Yes, Agitation Type: Pumped
 Heating: Yes If Yes, Temperature: °F

4. Operating Procedure

Can degreaser be closed during degreaser operation? Yes
 Is degreaser cover closed when degreaser is not in use? Yes
 Are parts dry before removal from drying rack? Yes
 How are waste solvent and sludge disposed of?

5. Indicate the type of control device (if any):

- Refrigerated Chiller
- Carbon Adsorption
- Water Spray
- Freeboard Ratio ≥ 0.7
- Other (*specify*):

(Complete Form AQM-1001K for Control Equipment)

SECTION II. OPEN TOP VAPOR DEGREASER, ONLY

Emission Unit No.:

6. Manufacturer or Description:

Inside Dimensions of Tank (ft.): Width: Length: Depth:

Date Installed: / /

Is solvent sprayed: Yes Spay Pressure: *psi*

Maximum Operation: hours/day days/week weeks/year

7. Solvent Type (Name):

Attach MSDS for Each Solvent Used

Maximum Amount Used: gallons/hour gallons/year

8. Indicate the types of safety switches the degreaser is equipped with:

- Condenser flow switch and thermostat (to shut off sump heat if condenser coolant either is not circulating or is too warm).
- Spray safety switch (to shut off spray pump if the vapor level drops more than four (4) inches below the bottom condenser coil.
- Vapor level control thermostat (to shut off sump heat if the vapor zone rises above the design level.

9. Type of vapor levels controls:

- Condensing Coil Chilled water or refrigerant None

Temperature of the cooling liquid: ° F

10. Method of heating the degreaser:

- Gas Electric Steam Rating: BTU/hr or KW

11. Type of cleaning action:

- Sonic Immersion in liquid Mechanical Mixing Vapor Condensation Spray

12. Tank Cover:

- Automatic Manual None Is the tank covered when not in use? Yes

13. Describe how waste solvent and sludge are disposed:

14. Indicate the type of Control Device (if any):

- Refrigerated Chiller Water Spray
- Carbon Adsorption freeboard Ratio \geq 0.75 Other (specify):

15. Are the parts to be degreased moved in and out at a vertical speed of less than 11 ft/min? Yes
What is the exhaust air flow? cfm

SECTION III. CONVEYORIZED DEGREASER ONLY	EMISSIONS UNIT NO.:
<p>16. Manufacturer or Description:</p> <p>Inside Dimensions of Tank (ft.): Width: Length: Depth:</p> <p>Date Installed: / /</p> <p>Is solvent sprayed: Yes Spray Pressure: <i>psi</i></p> <p>Type: Cold Solvent</p> <p>Maximum Operation: hours/day days/week weeks/year</p> <p>Work Load Design Specifications:</p>	
<p>17. Equipment Design:</p> <p>Does the Degreaser have: <input type="checkbox"/> Drying Tunnel <input type="checkbox"/> Tumbling or rotating baskets</p> <p>Is the tank covered when not in use? Yes</p>	
<p>18. Indicate the types of safety switches the degreaser is equipped with:</p> <p><input type="checkbox"/> Condenser flow switch and thermostat (to shut off sump heat if condenser coolant either is not circulating or too warm.)</p> <p><input type="checkbox"/> Spray safety switch (to shut off spray pump if the vapor level drops more than four inches below the bottom condenser coil.)</p> <p><input type="checkbox"/> Vapor level control thermostat (to shut off sump heat if the vapor zone rises above the design level.)</p>	
<p>19. Name of Solvent: <i>(attach MSDS for each solvent used.)</i></p> <p>Maximum Amount used: gallons/hour gallons/year</p> <p>Solvent Volatility at 100 °F: mm/Hg</p>	
<p>20. Indicate the type of control devices: Refrigerated Chiller Other:</p>	
<p>21. Operating Parameters:</p> <p>Actual Conveyor speed ft/min.</p> <p>Maximum vertical conveyor speed at exit or entrance of the degreaser ft/min.</p> <p>Flow rate of exhaust gas: cfm.</p> <p>Temperature of solvent bath: °F</p>	
<p>22. Describe how the waste solvent, still sludge, and adsorber solvent are disposed of:</p>	