Selecting the right parts washer

Both your Graymills distributor and our factory staff are prepared to offer any assistance in selecting your parts cleaner. The more of the following information you furnish, the quicker—and more precisely—the appropriate parts washer can be selected.

- Soils to be removed.
- Current cleaning method used.
- Material(s) from which your parts are manufactured.
- Size, weight, configuration and quantity of the parts to be cleaned per day.
- Operations immediately before and after cleaning. (e.g., “machine before/paint after.”)
- Preferred method of handling: manual or automatic.
- Single or multi-step cleaning required.
- Type of cleaning fluid: solvent or water-based.

Choosing your cleaning action

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<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
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<tbody>
<tr>
<td><strong>SOAK</strong></td>
<td><strong>BRUSH</strong></td>
<td><strong>DIRECTED STREAM</strong></td>
<td><strong>HIGH PRESSURE SPRAY</strong></td>
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</tr>
</tbody>
</table>

- Soaking is the simplest, least aggressive cleaning action. It is more effective with longer immersion time. This cleaning action is applicable where soils are easily removed and where low equipment cost is important.

- Manual brushing is used as a supplement to other cleaning actions. This method is helpful in removing stubborn soils in hard to reach places. An assortment of parts cleaning brushes is available in the ACCESSORIES section. See accessories page 28-29.

- A flexible hose is used to direct a flushing stream of low pressure cleaning fluid directly at the soiled part. This cleaning action is particularly effective for flushing parts when brushing. For maximum results, the directed stream action can be used in combination with other cleaning actions. Some models feature a second hose with a pistol grip nozzle, which provides an adjustable flushing spray.

- Quick and effective cleaning is accomplished by a powerful spray of heated, water-based cleaning solution. The high pressure spray blasts away the toughest deposits without damaging precision parts.

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<thead>
<tr>
<th>E</th>
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<th>G</th>
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<tbody>
<tr>
<td><strong>TURBO FLUID AGITATION</strong></td>
<td><strong>LIFT PLATFORM AGITATION</strong></td>
<td><strong>HEATED</strong></td>
</tr>
</tbody>
</table>

- This cleaning action is a result of the constant movement of the solution through and around the soiled parts. It provides faster cleaning than manual applications. A variety of pump and air circulated systems are available for fluid agitation.

- A “scrubbing” action is achieved by continually moving the parts vertically through the cleaning fluid. The motion is accomplished by a pneumatically operated platform in the tank. The system is automatic. The cleaning action is intensified when used in combination with Turbo fluid agitation (see page 17). It is ideally suited for a wide range of cleaning tasks.

- (Water based solution only.) The effectiveness of water based cleaning solutions increases dramatically as the temperature increases. The optimum recommended temperature is governed by the equipment and the particular detergent used.
<table>
<thead>
<tr>
<th>PAGE NO</th>
<th>AVAILABLE CLEANING ACTION</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<td>8</td>
<td>Clean-O-Matics</td>
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<td>10</td>
<td>SOLVENT / AQUEOUS</td>
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<td>11</td>
<td>Turbo-Series T24/36</td>
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<td>Turbo-Series T4330-thru T8430</td>
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<td>T-Series Liftkleen T2420-T3626</td>
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<td>L-Series Liftkleen L36 thru L72</td>
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<td>Turbo Boost / Roto Basket</td>
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<tr>
<td>28</td>
<td>Accessories</td>
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* STANDARD  ■ OPTIONAL

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Graymills.com 1.888.GRAYMILLS

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Catalog Contents / Selection Guide

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Graymills
Why should you select a Graymills parts washer instead of one of the other brands? Here are a few things you should consider when making your purchase:

1. Graymills is a family-owned and operated company, founded in 1939. Quick response when you need it. No corporate red tape.
2. We manufacture in our own 90,000 sq. ft. plant, centrally located in Chicago. Our own engineers design the equipment we make.
3. Average length of employee service in our plant is around 12 years. That experience goes into every parts washer we make.
4. In order to control quality and on-time delivery, manufacturing is done by state-of-the-art equipment:
   - All metal cutting is done by a laser for accurate, clean-cut parts.
   - Welding is either mig or tig for strong welds.
   - Every welded seam is leak-tested— that’s 100%. While the test criteria is 8 hours, we leave our tanks sit for 24 hours. Just to be sure.
   - After passing the leak test, every tank is power-washed with a solution that assures aggressive bonding of the paint to the sheet metal.
   - Our finish is epoxy polyester hybrid powder paint, oven-cured at 410°F for 25 minutes. We think you’ll be more than happy with this finish for a long time.
   - Because we’ve put a lot into these “Made in America” parts washers, we want you to receive it the way it looked when we finished building it. We go to great lengths to make sure our packaging provides safe transit to your door (except for the time they dropped the box off the truck tail gate).
   - Do we make mistakes? Sure. When we do, you’ll find our Chicago-based, experienced Customer Service department anxious to correct the mistake and quickly get you up and using your equipment.

It may sound “hokey” now that we are in the 21st Century— but I think when you use your Graymills parts washer, you’ll understand why we’ve called them, “The Friend Maker” since 1940.

Craig Shields
President
Standard features: EC-A:
- **Flexible Stay-Put metal flush hose** for directable hands-free flushing action
- **Industrial-grade steel** tank with durable powder-coat finish for **durability** and long-life
- **Fusible safety link** closes lid in event of fire
- **Removable lid/cover** for easy access to pump and easy cleaning of tank

Full-sized free-standing unit offers professional features in an economical package. Ideal for general maintenance and repair in industrial, automotive, marine or farm applications.

Standard features: HK150:
- **Abrasive-resistant pump** delivers 400 gallons per hour flow rate; pump motor is not exposed to the cleaning solution - eliminates need for pump seals
- **Flexible Stay-Put metal flush hose** for directable hands-free flushing action
- **Standard filtration** includes sludge collection basket with dual foam filter to keep solution cleaner longer
- **Removable 30" x 18" internal work shelf** sits above cleaning solution for easy manual cleaning and parts visibility; remove to access soak tank
- **Bottom drain** for easy fluid change-outs
- **Fusible safety link** closes lid in event of fire
- **16 gauge steel** tank with powder-coat finish for durability and long-life
- **Removable legs** for conversion into bench-top unit

Optional: HK150:
- **External drain shelf** to drain cleaned parts. Cleaning solution flows from parts back into the cleaning reservoir (see Accessories page 28-29)
Standard features:

- Abrasive resistant 170 GPH pump
- Reusable nylon filter system removes large particles of dirt and grime to keep fluid clean longer
- Flexible Stay-Put metal flush hose for directable hands-free flushing action
- Metal drain strainer keeps small parts from falling into cleaning solution tank
- 16 gauge steel tank with powder-coat finish for durability and long-life
- Lift-off sink for easy setup and maintenance; fast cleanup and fluid changes
- Built two inches taller than competition to eliminate bending/stooping—strain-free use!
- Available in 16 & 30 gallon drum sizes
- Fusible safety link closes lid in event of fire

DMD deluxe model:

- Deluxe models have a patented retractable pump to avoid back strain when removing tank from drum because tank needs to be lifted only a few inches from drum. With pump inside mounting ring, tank sits flat on bench or floor, saving pump from abusive shocks or accidental mishandling
- Worklight is designed so it cannot be pulled down to obstruct the cover from closing
Versatile unit optimizes flush hose and hand-held brush cleaning, sloped work shelf, small parts basket and optional external drain shelf. 15 gallon tank has bottom drain for easy maintenance.

**PL36**

**Combination of solvent scrub station and soak tank**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Operating Fluid Cap.</th>
<th>Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL36-A</td>
<td>8 1/2 - 20 Gal</td>
<td>115V, 60/50 Hz, 1 Ph</td>
</tr>
</tbody>
</table>

An in-tank air manifold agitates the solvent to loosen dirt and pre-clean parts. The in-tank metal grate perfectly positions parts above sludge on bottom—exposing all surfaces to agitation for more effective cleaning.

**PL422**

**With solvent recirculating pump and in-tank air agitation manifold**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Operating Fluid Cap.</th>
<th>Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL422-A</td>
<td>20 - 40 Gal</td>
<td>115V, 60/50 Hz, 1 Ph</td>
</tr>
</tbody>
</table>

Optional: **PL36-422**

- **External drain shelf** will drain solution to tank and reduces drying time.

See Accessories page 28-29

**Standard features:** both models:

- 400 GPH Graymills Superflo pump
- **Filter and sludge collector basket** with dual-element foam filter keeps fluid cleaner longer for fewer change-outs
- **Flexible Stay-Put metal flush hose** for directable hands-free flushing action
- 16/18 gauge steel tank with durable powder-coat finish for durability and long-life
- **Bottom drain** convenient for fluid change-outs
- Small parts basket
- **Fusible safety link** closes lid in event of fire

**Additional features: PL36:**

- **Removable work shelf** for parts cleaning above fluid or soaking in solvent tank

**Additional features: PL422:**

- In-tank air manifold **agitates the solvent** to loosen dirt and pre-clean parts
- **Two-piece sliding, solid metal work shelf** extends over the entire tank to provide a 34 1/2" x 20 1/16" work surface as well as to reduce solvent loss due to evaporation. Sliding the right shelf over the left creates an 18" x 21 1/2" soak tank with an equal size work area. Or store both shelves in the side slot for a fully-open soak tank
- The **in-tank metal grate** perfectly positions parts above sludge on bottom
- Unique safety device cuts off air flow to manifold in unlikely event of fire
Clean-O-Matic: The Industry Standard for more than 50 years

Ruggedly constructed for years of trouble-free solvent cleaning service. These feature-packed models offer a variety of design elements to make your cleaning tasks quicker and more efficient while remaining flexible enough to suit most cleaning challenges.

The Clean-O-Matic Series progresses in size and power from the 300-A, with a 1/8 horsepower pump and 42-gallon capacity, to the 902-A, with two 1/3 horsepower pumps and 117 gallon capacity.

All models feature three way cleaning—pump for in-tank agitation that loosens dirt/grime on soaking parts; pistol grip nozzle for flushing away contaminants; and Flexible Stay-Put flush hose in conjunction with a hand-held brush.

- **Three-way cleaning action** selector valve permits using pump, pistol grip spray nozzle or flush hose cleaning actions individually or in combination
- **In-tank agitation** loosens dirt and grime as parts soak.
- **Pistol grip spray nozzle** is adjustable for light spray or solid stream—direct where cleaning and rinsing of parts is needed
- **Adjustable bi-level work shelves**
- **Graymills abrasive-resistant pump** has no bearings/seals immersed in fluid—extends pump life
- **Washable 40 mesh screen solvent filter**

- **The in-tank metal grate** perfectly positions parts above sludge on bottom
- Two optional **removable soak/sludge trays** keep soaking parts off bottom—makes sludge removal easier
- **Extra long Stay-Put flexible metal flush hose** for directable hands-free flushing action.
- **Drain plug**
- **Safety lid** shuts automatically in case of fire—or close to reduce fluid evaporation
- **Rugged 16 gauge** powder-coated steel construction

(Optional Accessories, see pages 28-29)
All models include features shown on page 8.

### 300-A
- **Model**: 300-A
- **Capacity**: 16-42 gal
- **Motor**: 1/8 HP, 115V, 60/50 Hz, 1 Ph
- **Features**:
  - **Work Space**: 44” L x 21” W x 23 3/4” H
  - **Casters**: Allow unit to be easily moved

### 500-A
- **Model**: 500-A
- **Capacity**: 16-42 gal
- **Motor**: 1/3 HP, 115V, 60/50 Hz, 1 Ph
- **Features**:
  - **Work Space**: 44” L x 21” W x 23 3/4” H
  - **Casters**: Allow unit to be easily moved

### 800-A
- **Model**: 800-A
- **Capacity**: 50-85 Gal
- **Motor**: 1/3 HP, 115V, 60/50 Hz, 1 Ph
- **Features**:
  - **Work Space**: 41 3/8” L x 28 7/8” W x 29 1/2” H
  - **Casters**: Allow unit to be easily moved

### 900-A
- **Model**: 900-A
- **Capacity**: 50-117 gal
- **Motor**: 1/3 HP, 115V, 60/50 Hz, 1 Ph
- **Features**:
  - **Work Space**: 49” L x 28 1/2” W x 33 3/8” H

## Both Models: 300-A + 500-A
- **Work Space**: 44” L x 21” W x 23 3/4” H
- **Capacity**: 16-42 gallon
- **Casters**: Allow unit to be easily moved

## 300-A
- **Motor**: 1/8 HP, Graymills Superflo pump, 1000 GPH
- **Features**: Pump provides in-tank fluid agitation

## 500-A
- **Motor**: 1/3 HP, Graymills Superflo pump 2400 GPH
- **Features**: Pump with Hydro-Jet Manifold provides active in-tank fluid agitation

## 800-A
- **Motor**: 1/3 HP, Graymills Superflo pump 2400 GPH
- **Features**: Pump with Hydro-Jet Manifold provides active in-tank fluid agitation

## Both Models: 900-A + 902-A
- **Work Space**: 49” L x 28 1/2” W x 33 3/8” H
- **Capacity**: 50-117 gallon
- **Casters**: Allow unit to be easily moved

## 900-A
- **Motor**: 1/3 HP, Graymills Superflo pump 2400 GPH

## 902-A
- **Motor**: Two 1/3 HP, Graymills Superflo pumps 2400 GPH each, provide aggressive in-tank fluid agitation through dual Hydro-Jet Manifolds—operate independently or together

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**Parts Washers**: **Solvent**: CLEAN-O-MATIC

**Graymills.com**

**1.888.GRAYMILLS**
The Turbo-Action Series from Graymills is the perfect solution for hands-off, immersion cleaning required for challenging parts cleaning applications. Turbo-Action total immersion parts cleaners convert the jet stream from Graymills Superflo pumps into powerful, hands-off fluid action that gets parts cleaner without manual handling or scrubbing. Unlike spray cabinet type cleaners that employ spray nozzles, total immersion cleaners bring cleaning action to every external and internal surface—even blind holes. Turbo-Action units scour and flush parts clean and are offered in both solvent and heated aqueous versions with pumps that provide up to 10,000 GPH. The heated aqueous units come standard with energy-savings insulation and corrosion-resistant insulated stainless steel-lined lids.

A variety of tank sizes and options including stainless steel tanks, filtration systems and baskets ensures the Turbo-Action Series can handle your largest cleaning task, including cylinder heads, transmission housings, heavy castings, and complex parts.

- Total parts immersion provides **hands-off cleaning** without operator involvement
- **Grid platform** supports parts above bottom—allows for **all sides** of parts to be exposed to cleaning solution
- Two-inch drain for **easy fluid change-out**
- Multiple tank sizes up to **262 gallon** capacity
- **Solvent or aqueous** models available; some models can be **field-retrofit** and converted to aqueous versions if cleaning method changes.
- Fusible **safety link** closes lid in event of a fire
- Variety of options available to handle almost any application: **filtration systems, stainless steel tanks, baskets** (See Accessories pages 28-29)
The efficiency of immersion cleaning allows more time for the cleaning solution to do the work, provides penetration into blind holes, nested or layered parts, maximizes soak time to loosen contamination, and the Turbo Action of the pump adds to the speed and efficiency of the cleaning process.

**TURBO 24/36**

The T24 and T36 are Graymills most economical total immersion cleaners and are offered in both solvent and aqueous (heated) versions.

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<th>G</th>
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<td>25½&quot;</td>
<td>39&quot;</td>
<td>34&quot;</td>
<td>66&quot;</td>
<td>22&quot;</td>
<td>24½&quot;</td>
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<tr>
<td>T36</td>
<td>35½&quot;</td>
<td>50&quot;</td>
<td>34&quot;</td>
<td>75&quot;</td>
<td>27&quot;</td>
<td>29½&quot;</td>
<td>18&quot;</td>
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<table>
<thead>
<tr>
<th>DESCRIPTION</th>
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<th>T36</th>
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<tbody>
<tr>
<td>Immersion Space (L x W x D)</td>
<td>24&quot; x 20½&quot; x 12&quot;</td>
<td>34&quot; x 25½&quot; x 18&quot;</td>
</tr>
<tr>
<td>Overall Dimensions (L x W x H) (lid open)</td>
<td>39&quot; x 24½&quot; x 66&quot;</td>
<td>51&quot; x 29½&quot; x 75&quot;</td>
</tr>
<tr>
<td>Liquid Capacity (gal)</td>
<td>47</td>
<td>118</td>
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<tr>
<td>Motor/Pump (Hp)</td>
<td>1/2</td>
<td>1/2</td>
</tr>
<tr>
<td>Gallons Per Hour</td>
<td>3000</td>
<td>3000</td>
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<tr>
<td>Voltage</td>
<td>115/230/460V</td>
<td>115/230/460V</td>
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<tr>
<td>Hertz Phase</td>
<td>60/50-1 or 3 Ph</td>
<td>60/50-1 or 3 Ph</td>
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<tr>
<td>Heater for water-based cleaning only</td>
<td>60° - 180° F (15° - 82° C)</td>
<td>6.75 kW</td>
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</table>

**TURBO 4330-8430**

With five tank sizes and liquid capacities up to 262 gallons, the largest “Turbo Series” is also available in solvent or aqueous versions. 10,000 gallon per hour flow ensures effective scouring and cleaning of parts.

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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<td>T6430</td>
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<td>T7430</td>
<td>69½&quot;</td>
<td>86½&quot;</td>
<td>37&quot;</td>
<td>67&quot;</td>
<td>27½&quot;</td>
<td>30&quot;</td>
<td>23½&quot;</td>
</tr>
<tr>
<td>T8430</td>
<td>83&quot;</td>
<td>96½&quot;</td>
<td>37&quot;</td>
<td>67½</td>
<td>27½&quot;</td>
<td>30&quot;</td>
<td>23½&quot;</td>
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<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>T4330</th>
<th>T5430</th>
<th>T6430</th>
<th>T7430</th>
<th>T8430</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immersion Space (L x W x D)</td>
<td>39½&quot; x 27½&quot; x 23½&quot;</td>
<td>49½&quot; x 27½&quot; x 23½&quot;</td>
<td>59½&quot; x 27½&quot; x 23½&quot;</td>
<td>69½&quot; x 27½&quot; x 23½&quot;</td>
<td>83&quot; x 27½&quot; x 23½&quot;</td>
</tr>
<tr>
<td>Overall Dimensions (L x W x H) (lid open)</td>
<td>56½&quot; x 30&quot; x 67&quot;</td>
<td>66½&quot; x 30&quot; x 67&quot;</td>
<td>76½&quot; x 30&quot; x 67&quot;</td>
<td>86½&quot; x 30&quot; x 67&quot;</td>
<td>96½&quot; x 30&quot; x 67½&quot;</td>
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<tr>
<td>Liquid Capacity (gal)</td>
<td>142</td>
<td>169</td>
<td>200</td>
<td>231</td>
<td>262</td>
</tr>
<tr>
<td>Pump(s) 1½ hp</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Gallons Per Hour</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
<td>20,000</td>
</tr>
<tr>
<td>Hertz Phase</td>
<td>60/50-1 or 3 Ph</td>
<td>60/50-1 or 3 Ph</td>
<td>60/50-1 or 3 Ph</td>
<td>60/50-1 or 3 Ph</td>
<td>60/50-1 or 3 Ph</td>
</tr>
<tr>
<td>Heater for water-based cleaning only</td>
<td>60° - 180° F (15° - 82° C)</td>
<td>4.5 kW</td>
<td>4.5 kW</td>
<td>4.5 kW</td>
<td>4.5 kW</td>
</tr>
</tbody>
</table>

The T24 and T36 are Graymills most economical total immersion cleaners and are offered in both solvent and aqueous (heated) versions.
Why Immersion Cleaning is Preferred

Immersion cleaning is preferred... Unlike standard spray cabinet washers, immersion cleaning exposes all surfaces of the part, including blind spots and small crevices, to the cleaning solution. By combining hands-off, total immersion cleaning, easy part load/unload, vertical lift platform agitation and optional Graymills Superflo pump jet action, the Liftkleen offers the most intensive, efficient immersion cleaning system available. Complex parts, stacked or nested parts are no problem.

The T and L Series Liftkleens offers a variety of sizes and options, including pump, agitation, ultrasonics, and automatic control of cleaning cycles, that make it the easiest-to-use, large size cleaner on the market. One touch control of the pneumatic air system and electronic controls turns multi-function operation into a simple step.

Customize the Liftkleen for your specific needs.

Options include: ☐ Ultrasonic Models to create energized bubbles for powerful small and large parts cleaning (see pages 24-27) ☐ High power Graymills Superflo pump for in-tank fluid agitation adds more turbulence to washing tank ☐ Heaters and insulation for aqueous units ☐ Lift roller platform aids in loading and unloading parts ☐ Stainless steel tanks ensure long life of unit ☐ Oil Separator to remove oil from aqueous cleaning solution during the cleaning process ☐ Turbo-boost filtration system filters and extends life of cleaning solution (see page 17) ☐ Rotating small parts basket for T-Series (see page 17)
Standard Features for T-Series and L-Series Liftkleen Models

- Both Solvent or Aqueous versions
- Air-operated lift platform
- Stainless steel lined lids on L and heated T-Series units
- Hands-off, full immersion cleaning: from simple soaking to lift platform agitation
- Fully adjustable lift platform agitation—speed and stroke length
- Lift mechanism is entirely outside of tank for long service life
- Fiberglass grate, mild steel or stainless steel optional

Dual Action Cleaning Option - Shortens Cleaning Cycle up to 40%

- Optional Superflo Pump circulates up to 10,000 GPH
- The Dual Action cleaning cycle combines vertical platform agitation with a Graymills Superflo centrifugal pump jet stream for faster cleaning including crevices, blind holes and recesses
- Dual Action cleaning is effective in both cold solvent and heated aqueous applications

Hands-Off Automatic Operation with Liftkleen

- Parts are easily loaded on platform at tank top level
- Start cycle lowers parts into solution
- Fully immersed parts may be soaked and/or agitated with programmable cleaning
- Optional auto-lid opens at end of cycle
- Platform raises for draining and easy parts removal
Liftkleen Series

The Liftkleen L-Series has been proven by years of tough field use in industrial, maintenance, heavy duty truck and automotive repair facilities. These automatic, agitating, immersion cleaning machines are solidly built for long service life. They are available for both heated aqueous and solvent cleaning applications.

Two Series—“L” and “T” serve unique needs. The “T” Series has a smaller footprint, liquid capacity and lift capability. They are widely used for job site “cell” cleaning in manufacturing, automotive and maintenance shops. With most of the same features as the “L” Series, they offer quick, thorough cleaning for smaller parts.

Graymills “L” Series picks up where the “T” Series leaves off. Choose from 5 tank sizes designed for larger parts, and heavier components (up to 1,850 pounds). All lift platform components are outside the tank, eliminating the most common reason for failure in many other machines. “L” Series Liftkleens are the workhorse of today’s manufacturing, maintenance and repair operations. Air filter/regulator (FLR) comes standard with all T & L Series Liftkleen units.

Special Options offered:

- Electric heat (Aqueous Only) increases the cleaning capability of your aqueous solution with optional heaters available for up to 180°F (82°C)
- Roller platform aids in loading and unloading of parts
- High power Graymills Superflo pump adds in-tank fluid agitation
- Turbo-boost filtration system increases turbulence in wash tank and cleans sediment from wash tank while filtering the cleaning solution (see page 17)
- Ultrasonics for critical detailed cleaning
- Extra lift capacity accommodates parts up to 1850 pounds (L Series only)
- Pneumatic Cover with safety link automatically raises and lowers at beginning and ending of wash cycle (L Series only)
- Anti-tie down device incorporates a two-handed, air activated controller device to start cleaning process (L Series only)
- 7-day heater timer (Aqueous only) controls time you want heater to come on to preheat solution or stay off to save energy (L Series only)

---

T-SERIES

Versatile, convenient size immersion parts washer with V-Shaped bottom and center drain for easy cleaning.

**SPECIFICATIONS**

**T2420**
- Immersion Space (L x W x D): 24” x 20” x 12”
- Overall Dimensions (L x W x D): 39” x 24 1/2” x 66”
- Liquid Capacity: 47 gal
- Dimensions: 22” x 19”
- Standard Lift Capacity/PSI: 125/90
- Stroke Length: 3”
- Air Inlet: 1/4”
- Strokes Per Minute: 60-80
- Drain: 2”

**T3626**
- Immersion Space (L x W x D): 34” x 25 1/2” x 18”
- Overall Dimensions (L x W x D): 50” x 29” x 75”
- Liquid Capacity: 118 gal
- Dimensions: 32” x 24”
- Standard Lift Capacity/PSI: 200/90
- Stroke Length: 3”
- Air Inlet: 1/4”
- Strokes Per Minute: 60-80
- Drain: 2”

**OPTIONS**

- Pump Agitation Horsepower: 1/2
- Gallons per Hour: 3,000
- Voltage Options: 115V, 230V, 460V
- Heating System (Electric Heat) (Range: 60-180°F/16-82°C): 6.75kW
- Roller Platform
- Filtration System

* Available on this model, consult Graymills Price list for specs
**L-Series**

*The largest immersion parts washers offered by Graymills*

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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</thead>
<tbody>
<tr>
<td>LKR36</td>
<td>35 1/2&quot;</td>
<td>51&quot;</td>
<td>24&quot;</td>
<td>39 1/2&quot;</td>
<td>76&quot;</td>
<td>45&quot;</td>
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<td>LKR48</td>
<td>47 1/2&quot;</td>
<td>64&quot;</td>
<td>36&quot;</td>
<td>39 1/2&quot;</td>
<td>81&quot;</td>
<td>57&quot;</td>
<td>20&quot;</td>
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<tr>
<td>LKR60</td>
<td>59 1/2&quot;</td>
<td>76&quot;</td>
<td>36&quot;</td>
<td>39 1/2&quot;</td>
<td>81&quot;</td>
<td>57&quot;</td>
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<tr>
<td>LKD60</td>
<td>59 1/2&quot;</td>
<td>76&quot;</td>
<td>36&quot;</td>
<td>49 1/2&quot;</td>
<td>96&quot;</td>
<td>57&quot;</td>
<td>30&quot;</td>
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<tr>
<td>LKD72</td>
<td>71 1/2&quot;</td>
<td>88&quot;</td>
<td>42&quot;</td>
<td>49 1/2&quot;</td>
<td>96&quot;</td>
<td>63&quot;</td>
<td>30&quot;</td>
</tr>
</tbody>
</table>

*Maximum height for Model LKR36 is to top of mast. All other L-Series Liftkleen use open lid as maximum height.

<table>
<thead>
<tr>
<th>OPTIONS</th>
<th>LKR36</th>
<th>LKR48</th>
<th>LKR60</th>
<th>LKD60</th>
<th>LKD72</th>
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<tbody>
<tr>
<td>Extra Heavy Duty Lift Capacity (Maxium lbs. @ 100 psi)</td>
<td>1,000</td>
<td>900</td>
<td>1,850</td>
<td>1,850</td>
<td>1,750</td>
</tr>
<tr>
<td>Pump Agitation (Horsepower)</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>Gallons per Hour</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
<td>2 Pumps/20,000</td>
</tr>
<tr>
<td>Hertz Phase</td>
<td>60-1 or 3</td>
<td>60-1 or 3</td>
<td>60-1 or 3</td>
<td>60-1 or 3</td>
<td>60-1 or 3</td>
</tr>
<tr>
<td>Heating System (Electric Heat) (Range: 60-1800°F/18-82°C)</td>
<td>4.5kW / Htr*</td>
<td>4.5kW / Htr*</td>
<td>4.5kW / Htr*</td>
<td>4.5kW / Htr*</td>
<td>4.5kW / Htr*</td>
</tr>
</tbody>
</table>

*Up to three Heaters per unit standard, consult factory for other heater options*
Graymills Oil Separator (OSEP) removes tramp oil from aqueous cleaning solutions. Easily connected to Graymills Turbo-Action and Liftkleen parts washers, as well as other manufacturers’ immersion tanks.

**Standard features : OSEP 5/5S :**

- **Extends cleaning solution life**
- **Oil separation** improves parts cleaner operation
- **Continuous oil removal** during the cleaning process; no shutdown required as with skimmers; oil is not redeposited on clean parts
- **Returns virtually oil-free solution to parts washer**
- **Automatically draws off collected oil for reuse or reclamation**
- **Sturdy construction** of heavy grade steel, requires little maintenance. Also available in stainless steel
- **Economical operation** with no moving parts or outside power source

1. Inlet valve controls flow at 5 GPM to assure sufficient separation time.
2. Oily cleaning solution enters larger separator chamber.
3. Tramp oil adheres to polypropylene spheres which are non-wearing and require no replacement.
4. Formed droplets separate and rise to the surface to form an oil layer.
5. Oil layer gravity feeds to external container for proper disposal, reuse or reclamation. (container not included)
6. Separated fluid passes under baffle to second chamber.
7. Virtually oil-free detergent solution flows back to parts cleaner.
8. Bottom drain facilitates clean-out when required.

The oil separator is intended for water-based cleaning solutions and will not function with solvent-based cleaning fluids. Systems that do not have a recirculation pump require the separator to be equipped with its own pump. Consult customer service for details at 773-248-6825.

---

<table>
<thead>
<tr>
<th>MODELS</th>
<th>DIMENSIONS</th>
<th>CAPACITY</th>
<th>FLOW RATE</th>
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<tbody>
<tr>
<td>OSEP-5/OSEP-5S</td>
<td>30” x 21½” x 59½”</td>
<td>120 gal</td>
<td>5 GPM</td>
</tr>
</tbody>
</table>

---

**Highly Efficient Oil Removal**
The Turbo-Boost System draws contaminated aqueous or non-flammable solvent parts cleaning solution through a strainer basket that eliminates large particulate. Remaining contaminants are collected in a replaceable, disposable filter bag. Clean, dual-filtered detergent is pumped back to the parts washer through Turbo-Boost eductor nozzles. Entire fluid volume is continuously filtered every few minutes.

Standard features: TBF:
The Turbo-Boost System for Liftkleen models enhances performance in four ways:

- **Continuous filtration** keeps contaminants from re-settling on already clean parts
- **Clean, filtered fluid is returned** to parts washer through eductor venturi nozzles increasing cleaning power four times through additional fluid agitation
- **Increased Turbo Agitation** speeds cleaning cycle by increasing in-tank agitation four times
- **Eductor action sweeps tank bottom to eliminate sludge build-up**
- **Life of the cleaning solution is greatly extended**
- **Optional Service Beacon** (shown)

Roto-Basket is an accessory for “T” Series Parts Washers that effectively cleans small parts by creating a gentle, tumbling action to expose all surfaces to the cleaning solution. It is a hands-free cleaning process that reduces labor and saves time.

The tumbler basket assembly consists of a stainless steel expanded metal drum/basket assembly, rotary mechanism and frame assembly. Attaches to the platform of any Graymills “T” Series Liftkleen and holds up to 35 lbs. of parts.

The lift mechanism in the parts washer lowers the basket into the cleaning solution. As the lift platform agitates up and down, the rotating basket turns on a 60° index for every down stroke, thoroughly cleaning the smallest and most fragile parts.

- **Roto-Basket is 100% mechanically driven**—the pawl and ratchet mechanism uses the up and down motion of the lift platform to turn the drum, no electric motors or drives are needed
- **Optional Station makes Load/Unload easy**—separate from the Roto-Basket drive mechanism, the Load/Unload station allows for easy, convenient loading and unloading of baskets
- **System is a drop-in retrofit**—requires only a few minutes to install

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>WEIGHT</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRB-1</td>
<td>Roto-Basket (includes mechanical drive)</td>
<td>26 lbs</td>
<td>20½” L x 11” H x 13” W</td>
</tr>
<tr>
<td>RB-1</td>
<td>Addl. Basket (without mechanical drive)</td>
<td>13 lbs</td>
<td>20½” L x 11” H x 13” W</td>
</tr>
<tr>
<td>Roto-STA</td>
<td>Load/Unload Station</td>
<td>18 lbs</td>
<td>18½” L x 15” H x 14½” W</td>
</tr>
</tbody>
</table>
We will customize a standard model or build you a Special. Just tell us about your cleaning application.

Look through our catalog and notice the wide range of standard models, from the 5 gallon bench top unit to the 600 gallon Liftkleen. Also notice the number of options available, which include stainless steel tanks and pumps, air powered motors, turbo pump agitation, lift platform agitation, and ultrasonics. Chances are one of these models and its options will meet your cleaning applications.

But maybe your cleaning needs run to the unusual. Does your system require portability, batch cleaning, or multiple-stage processing? Or do you desire a single or multi-tank system? We’ll design and build a system for you whether it means simply altering a standard model or creating a one-of-a-kind special. Just contact your Graymills distributor or phone or fax our factory.

For more information 1-773-248-6825  FAX: 1-773-477-8673

Special Model Parts Washers Designed and Built by Graymills

Automotive Industry
Clean printing bars for speedometer sub-assemblies for cars & trucks.

Automotive Industry
Tube washer for exhaust systems.

Aerospace Industry
Multi-stage, multi-process wash system including ultrasonics for sophisticated valve assemblies.

Printing & Paper Processing Industry
Press parts & anilox roll maintenance.

Electronic Tool Repair & Refurbishment
Cleaning power tool components before servicing.

Environmental Alternatives
Equipment specifically designed for use with soy-based solvents.

Medical Industry
Ultrasonic wash system for machinery maintenance.

General Industrial
Manufacturing or Repair/Service
The Tempest Series of aqueous cabinet parts washers uses 600 psi of high-pressure aqueous cleaning solution power to scrub parts clean—no abrasives to damage precision machined parts.

The ultimate in operator comfort, the Tempest 10/20S keeps the operator’s hands clean and out of cleaning solution. Operator simply slips hands into gloves built into hinged front opening door of cabinet, picks up part and adjustable spray nozzle and directs 600 psi fluid stream of heated cleaning detergent at parts where it is needed most.

Fast heat-up, illuminated cabinet and window-clearing blower are standard on both units. Flexible neoprene gloves, safe and convenient air-actuated on/off foot pedal switch, and ergonomic working height maximize user comfort and result in increased efficiency. Adjustable hand-held spray nozzle can be set to a wide fan or pinpoint stream to direct cleaning power where needed. 150 mesh filter traps chips and solids and continuously filters fluid.

Standard Features: both models:
- 600 PSI and 180 GPH, 1 HP pump delivers cleaning power directly onto parts
- 1,000 watt heater (Tempest 10) / 1,500 watt heater (Tempest 20S) provide heated aqueous fluid that cleans without grit
- Window blower clears detergent and spray for parts viewing to provide uninterrupted view for efficient, accurate cleaning
- Hinged front opening door allows full access to entire cleaning chamber

Standard Features: Tempest 10:
- 36” W x 23” D x 23” H work chamber
- 10 gallon solution reservoir; easy-to-change internal pail fits neatly below spray cabinet
- Available in mild or stainless steel cabinet

Optional Features: Tempest 10:
- Built in Air blow-off nozzle for parts drying

Standard Features: Tempest 20S:
- 36” W x 38” D x 24” H large capacity work chamber
- Stainless steel cabinet
- 20 gallon rollout stainless steel reservoir makes fluid changes easy

Optional Features: Tempest 20S:
- Built in Air blow-off nozzle for parts drying
- Oil skimmer
- Workload turntable

** TEMPEST 10/20S **

600 PSI directed stream spray cabinet cleans parts without using grit or abrasives

** TEMPEST 10 **

- 36” 41” 22 1/2” 23” 27 1/2”
- Height with door open is plus 7”

** TEMPEST 20S **

- 36” 41” 24” 38” 42 1/2”
- Height with door open is plus 7”

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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</thead>
<tbody>
<tr>
<td>TEMPEST 10</td>
<td>36”</td>
<td>41”</td>
<td>22 1/2”</td>
<td>23”</td>
<td>27 1/2”</td>
<td>64”</td>
</tr>
<tr>
<td>TEMPEST 20S</td>
<td>36”</td>
<td>41”</td>
<td>24”</td>
<td>38”</td>
<td>42 1/2”</td>
<td>65”</td>
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** SPECIFICATIONS **

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<tr>
<th></th>
<th>TEMPEST 10</th>
<th>TEMPEST 20S</th>
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</thead>
<tbody>
<tr>
<td>Parts Load (maximum)</td>
<td>500 lbs.</td>
<td>500 lbs.</td>
</tr>
<tr>
<td>Operating Fluid Capacity</td>
<td>10 gal</td>
<td>20 gal</td>
</tr>
<tr>
<td>Spray Pressure</td>
<td>600 psi</td>
<td>600 psi</td>
</tr>
<tr>
<td>Motor/Heater-Power</td>
<td>1 HP/1,000W</td>
<td>1 HP/750W</td>
</tr>
<tr>
<td></td>
<td>21/2, 115V, 60 Hz</td>
<td>1 HP/1,500W</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 Ph, 115V, 60 Hz</td>
</tr>
</tbody>
</table>
Graymills heated drum-mount aqueous model with stainless steel sink and lid offers features and durability that will keep it functioning for years to come.

With a filtered stream of 115°F (46°C) aqueous cleaning solution, the DH226 flushes away loosened soil as parts are brushed clean. With easy setup and minimal maintenance, this unit offers a long, user-friendly service life.

**DH226A**

Heated aqueous drum mount parts washer offers on job-site parts cleaning convenience

<table>
<thead>
<tr>
<th>MODEL</th>
<th>OPERATING FLUID CAPACITY</th>
<th>DRUM CAPACITY</th>
<th>MOTOR</th>
<th>HEATER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DH226-A</td>
<td>8-12 gal</td>
<td>16 gal</td>
<td>115V, 60Hz, 1 Ph</td>
<td>Lighted On/Off Switch</td>
</tr>
</tbody>
</table>

**Standard features : DH226A :**

- **Thermostatically controlled heater** delivers heated solution up to 115°F (46°C)
- **300 GPH pump** and 12 gallon fluid capacity
- **Flexible Stay-Put flush hose** for directable hands-free flushing action
- **Lift-off stainless steel sink** mounted on drum for easy job site cleaning and maintenance
- **Fusible safety link** closes lid in the event of a fire

Optional feature : DH226A : 

- Drum Liners make for easy cleanup of solution reservoir prevent corrosion in drum

**PH822**

Rugged 4-legged aqueous parts washer—sink can be used as soak tank

- **Thermostatically controlled heater** delivers heated solution up to 120°F (48°C)
- **Rugged thermoplastic corrosion-resistant construction** is backed by five-year warranty
- **Flow-Thru brush, flexible Stay-Put nozzle—**brush or flush away soil with 300 GPH pump
- **Low liquid level** shuts off heater in event liquid level drops below a setpoint
- **GFCI** shuts entire unit down in event of electrical short
- **Triple Action Filtration** is achieved by a pump pre-filter, stainless steel strainer and polypropylene cartridge.

**Additional features : PH822 :**

- **10” soak depth** tank; molded bottom ridges allow soaking parts with detergent circulation while parts sit above sludge
- **Removable stainless steel work shelf**
### DH536R
Rugged aqueous parts washer features stainless steel backsplash (no lid)

- Heated aqueous 102° (39°C) fluid circulates at 300 GPH
- Rugged thermoplastic non-corrosive construction and is backed by five-year warranty
- Flow-Thru brush, flexible Stay-Put nozzle to brush or flush away soil
- Low liquid level shuts off heater in event liquid level drops below a setpoint
- GFCI shuts entire unit down in event of electrical short

### DH436R
Rugged aqueous parts washer with lid and safety link closure

- Triple Action Filtration is achieved by a pump pre-filter, stainless steel strainer and polypropylene cartridge
- Stable base is fluid reservoir; removable sink and power module for simple setup, maintenance and service
- Indicator lights for Power On, Heater On, Low Water Shut Down
- 30 gal capacity reservoir—lift-off sink

<table>
<thead>
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<th>SPECIFICATIONS</th>
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<th>DH536R</th>
<th>DH436R</th>
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<tbody>
<tr>
<td>Overall Dimensions</td>
<td>43” x 31” x 40” (65” H Open Lid)</td>
<td>39” x 31” x 43”</td>
<td>39” x 31” x 43” (68” H Open Lid)</td>
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<tr>
<td>Working Space (L x W x D)</td>
<td>31” x 22” x 17”</td>
<td>36” x 22” x 9”</td>
<td>36” x 22” x 9”</td>
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<tr>
<td>Parts Load (max.)</td>
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<td>300 lbs.</td>
<td>300 lbs.</td>
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<tr>
<td>Soaking Depth</td>
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<td>N/A</td>
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<tr>
<td>Operating Fluid Capacity</td>
<td>25 gal</td>
<td>20-30 gal</td>
<td>20-30 gal</td>
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<tr>
<td>Pump</td>
<td>Submersible</td>
<td>Submersible</td>
<td>Submersible</td>
</tr>
<tr>
<td>GPH</td>
<td>300</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Horsepower</td>
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<td>1/40</td>
<td>1/40</td>
</tr>
<tr>
<td>Heater</td>
<td>1.4 kW</td>
<td>1.4 kW</td>
<td>1.4 kW</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>Up to 120° F</td>
<td>102° F</td>
<td>102° F</td>
</tr>
<tr>
<td>Electric Configuration</td>
<td>115V, 1-Phase, 60 Hz</td>
<td>115V, 1-Phase, 60 Hz</td>
<td>115V, 1-Phase, 60 Hz</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>150 lbs.</td>
<td>150 lbs.</td>
<td>150 lbs.</td>
</tr>
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</table>
The simplest explanation of how the Biomatic parts washer works is: the Super Biotene cleaning solution cleans the parts while the active microbial action cleans the fluid. This bioremediation process takes place within the parts washer solution reservoir. The microbes work by actually breaking down the hydrocarbon contaminants into their component parts—water (H2O) and carbon dioxide (CO2) leaving the Biotene cleaning solution free of oily, greasy contamination that can affect clean parts.

When parts are placed in the parts cleaner, the heated Super Biotene™ lifts the grease and grime from the part. A Flexible Stay-Put nozzle and Flow-Thru brush aid the solution in the removal of especially stubborn oil, grease, and other contaminants.

Solution contaminated during this parts washing process flows through a triple filtration system; entering the cleaning solution reservoir first through a pre-filter/vapor barrier, then through a wire mesh stainless steel filter eliminating solid particulate as small as 50 microns. The microbes in the system go to work converting the grease and oil in the reservoir fluid into carbon dioxide and water. The remediated solution then passes through a polyester final filter before being reused in the parts washing process.

Hydrocarbon-busting microbes first gained recognition when they were used to safely assist the cleanup of the Exxon Valdez spill in 1989. The microbes used in the Biomatic System are very similar to their now-famous cousins!

Comparable microbes have been successfully used in petrochemical and chemical plants, refineries, food processing plants, marine barge bilges, machine shop parts washers, truck washers, wood treating plants, ground water remediation and septic tanks.

The Biomatic System features:

- Degrades oil, grease and a wide variety of hydrocarbons
- Contains microbes that degrade hydrocarbons and changes them into harmless byproducts
- Establishes a self-sustaining, long-lasting colony of harmless microbes
- Prevents deterioration of cleaning solutions cutting power

The benefits:

- Solves waste disposal problems right in the parts washer—solves the problem, does not just move it downstream
- Safe for humans and the environment
- Contributes to source reduction by limiting accumulation of potentially hazardous wastes in the workplace
These heated parts cleaners use hydro-carbon converting microbes to reduce solid waste and virtually eliminate fluid disposal. The hydro-carbon converting microbes are added to the cleaning solution and break down oils, grease and other organic impurities into water and carbon dioxide. The advantage for users is that the cleaning fluid almost never needs replacing.

The bioremediation process is greatly helped by a built-in tank solution aeration system that increases the effectiveness of the microbes. This self-sustaining system reduces your dependence on cleaning solution changes and recycling companies.

Constructed of the same thermoplastic as our DH 436/536 Series, the BIO Series uses the same cleaning processes of Flow-Thru brush or flexible Stay-Put nozzle, shares a flow control valve, plus similar three piece (base, sink and power module) construction and 300 lb. capacity. The cleaning solution is held at a constant 102°F for optimum cleaning effectiveness and system maintenance.

Our special pH neutral Biotene cleaning fluid and microbe system ensures an extended life for cleaning fluids without costs to change or dispose of fluid. The warm detergent is mild and pleasant to work in, and replacement filters and microbe packages are available to re-invigorate fluids.

**Standard features:** BIO436R/536R:
- Bioremediation process **turns grease/oil and organic substances into water and carbon dioxide**, eliminating most fluid changes caused by increased saturation of organic contaminants
- **3-way control valve**, Flow-Thru brush and flexible Stay-Put hose for brush and flush cleaning
- **Rugged thermoplastic** construction provides long service life; backed by five-year warranty
- **pH neutral** cleaning solution has USDA and SCAQMD approval
- Low liquid level warning and **Ground Fault Circuit Interupter shuts** off power to heat in event of liquid level drops below a certain point; **GFCI shuts entire unit down** in event of electrical short or malfunction
- **Nine-inch deep sink, 300 pound capacity and 30-gallon reservoir**
- **Triple Action filtration** removes non-organic impurities
- Power module with **indicator lights** for Power On, Heater On, Low Water shutoff
- **BIO accessories** include filters and Microbe Bio Pack

### BIO436R/536R

**Parts washers offering an environmentally friendly way to clean parts**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>BIO436/536</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load Capacity</td>
<td>300 lbs.</td>
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<tr>
<td>Overall Dimensions (L x W x H)</td>
<td>39&quot; x 31&quot; x 43&quot; (H no Lid, 536) (68&quot; H with Lid, 436 only)</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>36&quot; x 22&quot; x 9&quot; sink</td>
</tr>
<tr>
<td>GPH</td>
<td>300</td>
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<tr>
<td>Fluid Capacity</td>
<td>30 gal</td>
</tr>
<tr>
<td>Cleaning Solution Temperature</td>
<td>102°F</td>
</tr>
</tbody>
</table>
What is Ultrasonics?
The science of ultrasonics is the study and application of mechanical vibrations above the range of human hearing—typically greater than 18,000 HZ.

What is Ultrasonic Cleaning?
Ultrasonic cleaning uses ultrasonic energy in an immersion cleaning tank to assist in the removal of tenacious or stubborn soils from parts.

An ultrasonic system always consists of at least three main components:
1. A tank to hold the cleaning fluid and the dirty parts
2. A generator to transform the line voltage into an ultrasonic signal
3. Transducers to convert the ultrasonic electrical signal into mechanical energy

What is an Ultrasonic Generator?
The ultrasonic generator takes AC electrical energy from the power line and converts it to electrical energy alternating at the desired ultrasonic frequency. In addition, the ultrasonic generator may have complex circuitry which automatically tunes its output to the optimum operating frequency for the ultrasonic transducer.

What is an Ultrasonic Transducer?
A transducer converts electrical energy at the ultrasonic frequency to mechanical motion—sound. It directs the sound energy into the cleaning tank.

What is Cavitation and Implosion?
The phenomenon of cavitation is unique in fluids. The cavitation bubbles implode, releasing locally high energy. This implosion is the heart of the ultrasonic process.

How does Ultrasonic Cleaning Work?
An ultrasonic system works by inducing controlled cavitation in the cleaning fluid. Cavitation refers to microscopic voids or “bubbles” that form when the transducers emit sufficient ultrasonic energy into the fluid. The cavitation bubbles form relatively slowly and then collapse suddenly, releasing tremendous energy against the surfaces of objects immersed in the tank that “scrubs” hard to remove soils from the parts.

Model Tank Ultrasonic Power Heater Power Tank Dimensions Overall Dimensions
<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Power</th>
<th>Power</th>
<th>Dimensions (L x W x D)</th>
<th>Dimensions (L x W x H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTU-4</td>
<td>4 gal</td>
<td>250W/500W Peak</td>
<td>500W/120V</td>
<td>12” x 8” x 10”</td>
<td>16” x 18 x 16 1/2”</td>
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<tr>
<td>BTU-7</td>
<td>7 gal</td>
<td>500W/1000W Peak</td>
<td>500W/120V</td>
<td>14” x 11” x 11”</td>
<td>18” x 21” x 17 1/2”</td>
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<tr>
<td>BTU-17</td>
<td>17 gal</td>
<td>750W/1500W Peak</td>
<td>1,000W/120V</td>
<td>20” x 14” x 14”</td>
<td>24” x 24” x 20 1/4”</td>
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</tbody>
</table>

The stainless steel, corrosion-resistant tanks come in three sizes, and the thermostatically controlled tank heaters maintain a temperature optimized for cleaning. Because the ultrasonic generator is an integral part of the cabinet housing, their small footprint makes these units ideal for job site “cell” cleaning applications or places where space is critical.

Standard features:
- Choose from Three tank sizes for parts up to 12” W x 16” L
- Bonding of transducers is guaranteed for 10 years
- All units have 1/2” drain fitting
- Lift-off cover with handle
- Adjustable thermostat optimizes tank temperature of individual parts up to 160° F
- Sound-deadening insulation package
- Illuminated controls for ultrasonics and heater function

Options include:
- Stainless steel mesh parts basket
Graymills unique high intensity “V-focused” ultrasonic sound increases cleaning power and speed for intricate parts as well as large industrial pieces.

**T24U**  
Economical but powerful ultrasonic cleaning system

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FLUID CAPACITY</th>
<th>LIFT CAPACITY</th>
<th>ULTRASONIC POWER</th>
<th>HEATER POWER</th>
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</thead>
<tbody>
<tr>
<td>T24-U</td>
<td>47 gal</td>
<td>120 lbs.</td>
<td>4,000W /230V, 1 Ph</td>
<td>6.75 kW</td>
</tr>
</tbody>
</table>

- Deep “V” tank bottom focuses the ultrasonic power on the work load
- Bonding of transducers is **guaranteed for 10 years**
- Air operated **lift platform** handles loads up to 120 lbs with ease; gentle up and down agitation while submerged enhances the cleaning process
- Adjustable, **thermostatically controlled tank heaters** maintain optimum cleaning solution temperature up to 160°F
- **Digital cycle timer** controls cleaning cycle start and stop times
- **Oil skimmer** removes oil from cleaning solution
- Lift platform raises to the top of the immersion tank, for **easy access to load and unload parts**
- **Corrosion-resistant** MIG welded stainless steel construction is **designed for longevity**.
- Double walled insulated tank and lid prevents heat loss and evaporation
- **Small footprint** is ideal for on site “cell” cleaning and can be combined with other units (rinse tanks, dryers) to complete the cleaning process
- **Stainless steel tanks**

**Typical Ultrasonic Cleaning Applications**

Ultrasonic works for removal of insoluble particulate soils, or soils that tenaciously hold to the parts, including:
**Compounds** (Grinding, Lapping, Buffing, Honing) > Carbon > Corrosion > Coatings > Paint > Ink

Excellent for cleaning of complex parts where the small size or intricate construction restrict cleaning by ordinary means:
**Small Assemblies** > **Nested Parts** > Blind Holes > Tapped or Threaded Bodies > Complex Machined Parts
The Super Sonic Liftkleen parts washer features full immersion cleaning coupled with powerful ultrasonics to thoroughly wash the most difficult to clean parts.

- **Full PLC Control** with Touch Screen Operator Interface provides programmable cycles for ultrasonics, platform oscillation, soak, sparger, filtration and heater functions up to 180°F
- **Ultrasonic frequency sweep** continuously changes sound patterns to help prevent parts damage
- **Heavy duty immersible sealed transducers** evenly distribute the ultrasonic sound waves and eliminate cleaning blind spots
- **Pneumatic lift platform** allows easy loading/unloading of parts up to 300 pounds and offers agitation capabilities for thorough parts cleaning
- **Automated lid open/close** via pneumatic cylinder allows for hands-free operation
- **Built in weir and surface sparger** system removes floating oil and debris from the top of cleaning solution so parts are not dragged through the floating contaminant at the end of the cleaning cycle
- **Oil skimmer** removes oil from weir chamber
- **Filtration system** constantly filters the cleaning solution to extend bath life for more consistent cleaning
- **Double walled, fully insulated stainless steel tank and lid** prevents heat loss, evaporation and reduces noise
- **Bottom drain and value** for easy change out of cleaning solution

Units available without Ultrasonics. Please contact factory.
The TUS3725SL-model comes equipped with features to achieve ultimate parts cleaning levels. It is built to withstand rugged use in applications like engine rebuilding, performance racing, maintenance and manufacturing, but gentle enough to be used in the most delicate of cleaning applications.

PLC controls cycle times, ultrasonic wash time, the time for surface sparger spray to come on after the timed ultrasonic cleaning cycle and the operation of the lift platform.

Three ultrasonic generators deliver 6,000 watts of peak power.

Heavy duty immersible drop-in sealed transducer packs.

Built-in oil removing weir and surface sparger system ...

... removes floating oil and debris from top of cleaning solution so parts are not dragged through the floating contaminant at the end of the cleaning cycle.

Skimmer removes oil from Weir Chamber—increases solution life.

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**SPECIFICATIONS**

**TUS3725SL**

<table>
<thead>
<tr>
<th>Immersion Space (L x W x D)</th>
<th>37&quot; x 25&quot; x 14&quot; (max. part size)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Dimensions (L x W x H)</td>
<td>55&quot; x 66&quot; x 72&quot;</td>
</tr>
<tr>
<td>Liquid Capacity</td>
<td>183 Gallons</td>
</tr>
<tr>
<td>Standard Lift Capacity/PSI</td>
<td>300/100</td>
</tr>
<tr>
<td>Stroke Length</td>
<td>4&quot;</td>
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<tr>
<td>Strokes per Minute</td>
<td>25-40</td>
</tr>
<tr>
<td>Air Inlet</td>
<td>3/16&quot; NPT</td>
</tr>
<tr>
<td>Water Inlet</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>Drain</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>Heater Setting Range 0-180°F</td>
<td>4kW/Hr (Unit cannot cool below ambient temperature)</td>
</tr>
<tr>
<td></td>
<td>8kW/Hr (optional second heater bank)</td>
</tr>
<tr>
<td>Ultrasonic Cleaning Power</td>
<td>RMS 3,000 watts total (Three generator/transducer units @ 1,000 watts each)</td>
</tr>
<tr>
<td></td>
<td>Peak 6,000 watts total</td>
</tr>
</tbody>
</table>
**General Purpose Parts Baskets**

**L-3** Permits flushing of small parts while keeping them organized. 10” diameter

**L-7** Hooks over edge of tank or stands on legs. 8” L x 6” W x 4” H

**L-8** Expanded metal on sides and bottom. 13” L x 12” W x 5” H

**L-3** and **L-7**

**L-22, LS-22** (stainless) 22” L x 18” W x 6” H

**L-27, LS-27** (stainless) 31¼” L x 23¼” W x 6” H

**L-8**

**L-3** sized and bracket for use with standard five gallon pail

---

**Clean-O-Matic Baskets**

**L-9** Clean-O-Matic 900 and 902-perforated metal sides and bottom with 15 gauge frame for heavy-duty use; can be supported above liquid level for draining by special pull-out supports, 32” L x 17” W x 5” H

**L-9L** Same as L-9 except with sturdy lifter bar to permit use with chain hoist for heavy-duty work

**L-10** Same as L-9 in larger size for Turbo-Action parts cleaners, 34” L x 21” W x 5” H

**L-10L** Same as L-10 with lifter bar

---

**Liftkleen Baskets**

Perforated metal sides, bottom and iron frame. Removable dividers facilitate handling of variety of sizes.

**L-22 and LS-22** (stainless) 22” L x 18” W x 6” H

**L-27 and LS-27** (stainless) 31¼” L x 23¼” W x 6” H

Actual basket material may differ from photo

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**L-Series Liftkleen Baskets**

**LKB36 and LKBSS36** (stainless) Parts Basket for LKR36 32” L x 19” W x 15” H

**LKB48 and LKBSS48** (stainless) Parts Basket for LKR48 44” L x 31” W x 15” H

**LKB60 and LKBSS60** (stainless) Parts Basket for LKR60, LKD60 55” L x 31” W x 15” H

**LKB72 and LKBSS72** (stainless) Parts Basket for LKD72 67” L x 37” W x 15” H

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**Detergent Neutralizer System**

System enables users to treat water-based aqueous detergent solutions for sewer disposal. Oil absorbent pads pick up floating oil. Detergent neutralizer powder to treat used solution to meet Federal and local disposal regulations. 18” by 18” oil pads absorb up to 25 times their own weight in oil. Neutralizer powder changes color of solution when sufficient powder has been added. Pads and powder can be purchased separately or in kit form.

**NOTE:** For first-time use, laboratory-analyzed sample of neutralized solution should be submitted to your local authority to assure that your processed fluid waste meets their standards.

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**Work Light**

Constructed with 360° rotation and a 28” gooseneck to allow for additional lighting of entire work area. Solid support so light cannot be pulled down to obstruct cover closing in case of fire. For HK-150, all Handi-Kleens, and all Clean-O-Matics. Mounts to back or side of tank.
Work Shelves

Shelves shown here are supplied as standard with the purchase of one of the listed parts cleaners. Ideal for additional work space or replacement of worn shelves.

L-5 Perforated metal Flo-Thru shelf constructed with solid metal frame; for use with Clean-O-Matic Models 300 and 500

L-4 Identical to L-5 but sized for use with Clean-O-Matic Model 800

L-5S 16 gauge steel shelf for use with Clean-O-Matic Models 300 and 500

L-4S Identical to L5S but sized for use with Clean-O-Matic Model 800

Actual shelf material may differ from photo.

Drain Shelves

Accessory shelves designed to provide a working platform that allows cleaned parts to drain while directing run-off into tank. Shelves mount externally to maintain critical workspace.

L-6 16 gauge steel shelf attaches to side of Clean-O-Matic Models 300, 500 and 800. 16” L x 18” W

L-61 16 gauge steel shelf mounts to side of Flo-Bac, HK-150, and all Handi-Kleen models. 15” L x 18” W

Brushes

3B-G Standard brush with 2 1/2” polypropylene bristles

5D Double brush, with 1 1/2” and 2 1/2” nylon bristles

6A Flow-Thru brush flushes part as it cleans. Solvent flows through core of handle; 2” Connecting hose, 2 1/2” nylon bristles, and a rubber connector that slips over nozzle of flexible metal hose of parts cleaner

7-A Flat Angular Flow-Thru cleaning brush can attach to pump nozzle with rubber hose (included)

8-A Round Angular handle cleaning brush can attach to pump nozzle with rubber hose (included)

Filters

Filtration systems are available for all Liftkleen Models. Filters for T-series models available in 10, 50 and 100 micron. For L-series models in 150 and 590 micron. See GM price list.

Replacement Filter Bags

Replacement filter bags for Drum Mount Parts Cleaners.

C-27360 washable nylon mesh filter bag extends solvent life, 12 per package

Drum Liners

Poly bag liners simplify cleanup and disposal of solid waste. Available in dozens.

C-27452 Fits 16 gallon drum mounts

C-27484 Fits 30 gallon drum mounts

C-27835 Fits Tempest 10
Graymills fluids are specially formulated to provide optimum cleaning in our parts washers. They are intended to be used for a variety of cleaning needs, and specific formulations are available for cleaning ferrous and non-ferrous metals, rubber and elastomers, parts to be painted, and for removal of many varieties of grease, motor oil, cutting fluids, carbon deposits, inks and gummy residues.

General Purpose Solvents

Super Agitene
Ideal for cleaning of metal, plastics and painted surfaces. Grease, motor oil, cutting oil and water soluble oils are removed with ease. Gummy deposits unaffected by ordinary mineral spirits are readily softened or removed. Contains Hand Ease® a cosmetic-grade lanolin formulation, which replenishes some of the skin’s natural oils removed by solvents. It helps to reduce the chance of irritation and chapping and leaves a protective coating on parts to help retard corrosion, and is a low-odor solvent with a 105°F flashpoint. It should not be used on parts going into a plating or painting process. (See regular Agitene.) Available in 5 gallon pails and 50 gallon drums.

Super Agitene 141
Contains no ingredients listed as hazardous by the EPA’s RCRA
Meets OTC VOC regulations
Has the same attributes as Super Agitene but a higher flash point of 141°F (60°C), which meets local regulations where use of High Flash Point Solvent is required. Available in 5 gallon pails and 50 gallon drums.

Regular Agitene
Same high quality cleaning action as Super Agitene, but leaves no film thus making it ideal for cleaning parts to be painted. It will not attack varnish, allowing it to be used on varnish-insulated electrical components. Available in 5 gallon pails and 50 gallon drums.

Solvent Saver Filters
Extend the life of solvent cleaning solutions by filtering out the oil and grease that accumulates in the solvent cleaning solution.

Solvent Saver I
Oil and Grease Removal (Packed two/carton)
SS-11 7” diameter x 11” long includes one connecting hose
SS-18 7” diameter x 18” long includes one connecting hose

Solvent Saver II
Oil and Grease Plus Particulate Removal (Packed two/carton)
In addition to special absorbent materials, it contains a 5 micron filter cartridge that filters particulate from the solvent prior to oil and grease absorbing stage.
SSC-11 7” diameter x 11” long–includes one connecting hose
SSC-18 7” diameter x 18” long–includes one connecting hose

For Solvent Saver I and II
Solvent Saver Hanging Bracket-Stainless Steel bracket holds filter out of way on inside of parts washer.
SSC-BRAC 12” long x 9”deep X 8” high
Biodegradeable Alkaline (Aqueous) Cleaners

Graymills versatile line of aqueous cleaners can be used for removing virtually any organic or inorganic soil, including greases, oils, soft carbons, epoxies, hard water residue, corrosion, oxides, paints, plating salts, rust and smut. Aquatene water-based cleaners work most effectively when heated and require only a water rinse.

Aquatene 330

Super Aquatene 360
A general purpose concentrated cleaner in liquid form can be used up to 180°F for faster cleaning. Ideal for use in free-standing manual systems and immersion type part washers. Removes all items listed for GM 330 but also effectively cuts buffing and lapping compounds, hard to remove coatings, water-based inks, oxidized oils and heavy or burned-on varnishes. A five gallon pail makes 25-50 gallons of cleaner; a 55 gallon drum makes 275-500 gallons, depending on concentration.

Super Aquatene 390
A heavy-duty, low-foam concentrate perfect for use in spray cabinet washers. Ideal for steel, cast iron, and other ferrous metals (not for use on non-ferrous metals). Removes most greases, light oils, water soluble inks, hardened composites and loose metal chips. Contains a rust inhibitor. A five gallon pail makes 30-40 gallons, a 55-gallon drum makes 300-450 gallons, depending on concentration. Heat to maximum of 150°F.

Aquatene 571
Specially formulated for cleaning aluminum and non-ferrous metals. The powdered compound mixes @ 3 to 8 ounces per gallon of water. Available in 25 lb cartons or 100 lb. Fiber drums. Use heated to 180°F (82°C).

Super Biotene 660 (Pre-blended) and Super Biotene 550 (Concentrate)
Super Biotene is an aqueous-based solution that is pH neutral (7.0) mixture of emulsifiers and surfactants containing no VOCs. It is designed for our Bioremediation models, although it is a good general cleaner that can be used in other parts washers. Available in one quart liquid concentrate that makes five gallons of cleaner. One gallon liquid concentrate that makes 21 gallons of cleaner and five gallon pail of pre-blended, ready-to-use formula.
# Cleaning Fluid Reference Chart

<table>
<thead>
<tr>
<th>Cleaning Problem</th>
<th>Super Agitene</th>
<th>Regular Agitene</th>
<th>Aquatene 330</th>
<th>Super Aquatene 360</th>
<th>Aquatene 390</th>
<th>Aquatene 571</th>
<th>Super Biotene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buffing and Lapping</td>
<td>*</td>
<td>*</td>
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<tr>
<td>Carbon Deposits, Soft</td>
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<td>*</td>
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<td>Grease</td>
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<td>Gummy Residues</td>
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<td>Oils</td>
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<td>Oils, oxidized</td>
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<td>Paint, Oil based</td>
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<tr>
<td>Rust Preventatives</td>
<td>*</td>
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<td>Varnishes, Light</td>
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<td>Varnishes, Heavy</td>
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<td>*</td>
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<tr>
<td>Varnishes, Burned-On</td>
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<td>Waxes</td>
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## For Use in:

<table>
<thead>
<tr>
<th></th>
<th>Super Agitene</th>
<th>Regular Agitene</th>
<th>Aquatene 330</th>
<th>Super Aquatene 360</th>
<th>Aquatene 390</th>
<th>Aquatene 571</th>
<th>Super Biotene</th>
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<td>Handi-Kleen (cold)</td>
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<td>Handi-Kleen (hot)</td>
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*Graymills manufactures pumps for most industrial applications including machine tools for the global marketplace. Visit the website or call customer service for literature on Graymills centrifugal, gear, diaphragm, high pressure multi-stage pumps and tank systems for OEM and MRO applications.*

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