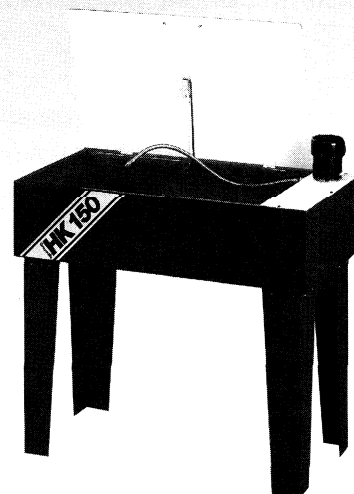


Graymills

HK150-A Solvent Recirculating Parts Cleaner

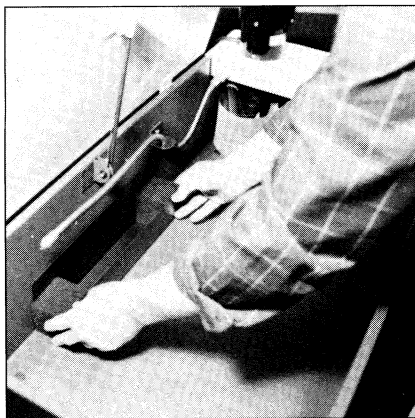
Operation and Maintenance Instructions



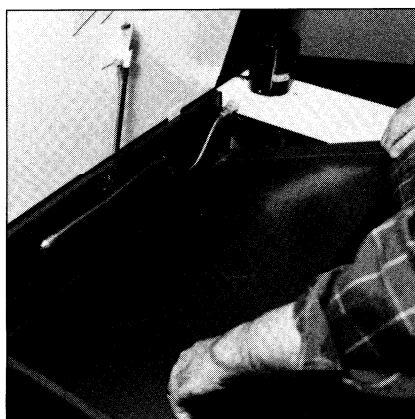
WARNINGS/CAUTIONS

Do not install or operate until you have read all warnings and instructions and understand the operation.

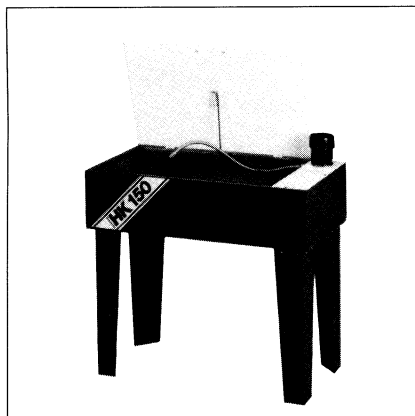
- Do NOT install near open flames or heat. Do NOT smoke near parts cleaner.
 - Be sure to follow label instructions provided with any fluid used in this unit. Use only fluids with a flash point of 104°F or higher. Graymills recommends Super or Regular Agitene® (Flashpoint approx. 105°F). Do NOT use gasoline, alcohol, carburetor cleaners, metal strippers or chlorinated solvents. Use of such unauthorized materials can cause a health and safety hazard which might result in serious personal injury or death. If you have any questions regarding the correct fluids to use in this unit, call Graymills at (773)248-6825 and ask for Customer Service.
 - Do NOT contaminate cleaning compounds with any flammable materials (not less than 104°F flashpoint), such as gasoline, alcohol, etc. Drain parts to be cleaned of any flammable material before placing inside cleaning tank. Even small quantities can create a dangerous fire hazard.
 - If any cleaning solutions are splashed on clothing, remove wet clothing promptly and thoroughly wash body areas that have been in contact with the solution. Do NOT permit saturated clothing to remain in contact with skin.
 - Cleaning solutions may irritate skin and eyes. If splashed in eyes, flush thoroughly with water. Consult Material Safety Data Sheet (MSDS) and a physician. Always wear appropriate safety items such as gloves, apron, safety glasses or goggles.
 - Follow all directions, Warnings and Cautions for the cleaning material being used.
 - Before performing any maintenance on this unit be sure to disconnect electric power.
 - Unit must be properly grounded to prevent electric shock hazard. Connect only to three prong outlet. Should cord become cracked, frayed or damaged in any way, it should be repaired immediately by a qualified electrician. Never use an extension cord.
 - Since operator safety at all times is a priority, we strongly recommend that, whether or not required by local code, this equipment be connected only into a power supply equipped with a "Ground Fault Interrupter" (GFI). All electrical connections should conform to national/local codes and be made by qualified personnel.
 - Unit is equipped with a fusible safety link cover mechanism designed to support the open cover at a slightly forward angle. In the event of a fire, the fusible link will melt at 165°F permitting the cover to slam shut, cutting off oxygen supply to the fire.
 - Never leave the unit unattended with parts in the tank which would prevent the cover from closing completely in the event of a fire. Always make sure that the cover remains in its correct, slightly tilted forward position when open. Do NOT tamper with or remove the fusible safety link. If the safety link breaks or is lost, do NOT use the unit. Replace the safety link immediately. Keep the cover closed when the unit is not being used.
 - Do NOT load with parts over the recommended maximum weight. Maximum tank weight is 150 lbs. and maximum shelf weight is 75 lbs.
 - Inspect pump and all electrical cords and plugs each time unit is cleaned. Do NOT use if any wear or damage is noticed until impaired components are repaired or replaced.
- Never work with equipment you feel may be unsafe. Contact your Supervisor immediately.**



7. Place sludge collector tray at center rear of tank.



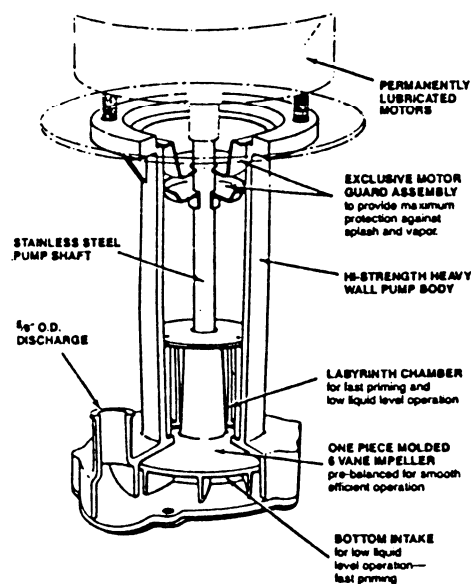
8. Insert work shelf so that oblong screen filter is directly over sludge collector.



9. Unit is ready to operate. Place on level surface.

tank settle overnight. Pump fluid into a clean pail. When all fluid that the unit will pump has been removed, place a dirty pail under the drain plug located under the tank. Remove the drain plug, allowing contents of tank to drain into pail. Wipe out tank, replace drain plug and return fluid from clean pail to tank. Top off with fresh cleaning fluid to bring up to desired level. The HK150 operates on a minimum of 2-1/2 gallons of fluid, a maximum of 5 gallons. **DO NOT OVERFILL. Absolute maximum fluid level is 2" below bottom of motor.** If the useful life of all the fluid in the tank is exhausted, drain as described above, into a dirty pail and refill with fresh solvent after wiping out tank and sludge collector. Dispose of according to local and federal regulations.

- If it is necessary to clean the pump, remove the pump's bottom screws, plate and gasket. Remove the impeller set-screw and lift off the impeller with the aid of two screwdrivers, carefully working the impeller down the shaft. Rinse pump clean and reassemble.



REPLACEMENT ITEMS

Part Number	Description
765-26809	Cover stop
567-26793-65	Cover support arm
724-05658	Drain plug
712-26965	Screen cylinder
401-23700	Fusible link
744-20259	Pump gasket
644-20564	Legs (4)
314-06963	Motor
742-07095	Foam filter element (2)
C-26840-A	Replacement pump
502M22478-74	Pump body
525-26542-76	Pump impeller
728-27602	Flexible hose

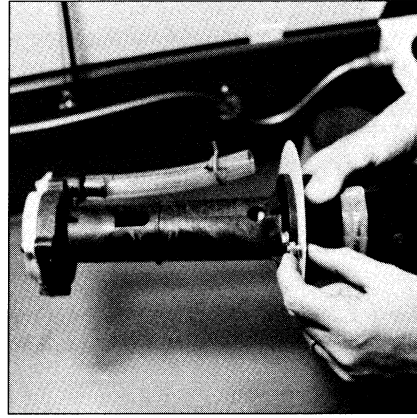
MAINTENANCE

Be sure power to the unit is shut off before performing maintenance on your machinery.

- Regular cleaning of the HK150 prolongs the life of the cleaning fluid and adds years of trouble-free operation. Do not allow sludge to build up at pump intake area in tank. Sludge accumulations can decrease solvent flow.
- Remove sludge collector daily. Wipe out accumulated sludge and rinse foam filters under flow from flexible hose.
- For a more thorough cleaning, let the dirt and sludge in

SPECIFICATIONS

- **Motor:** The HK150 motor is a 110V, 60Hz, 1 Ph, thermally protected motor. Use only with a compatible power source.
- **Liquid Capacity:** The HK150 uses a minimum of 2-1/2 gallons and maximum of 5 gallons of cleaning fluid. **Absolute maximum fluid level is 2" below bottom of motor.**
- **Recommended Cleaning Fluids:** The HK150 is designed to be used with combustible (flashpoint over 104°F) petroleum based cleaning fluids such as Graymills Regular Agitene® and Super Agitene®. Super Agitene has a mild, fresh odor and is far superior in cleaning ability than normal safety solvents. Super Agitene also contains "HandEase®," a lanolin formulation that helps prevent skin irritation, plus seven other ingredients that make it a unique cleaning fluid that cleans faster, more easily and lasts longer than other cleaning fluids. Super Agitene also leaves a light rust retarding film. Regular Agitene is a fast-drying, film-free cleaner which contains Tergene, a detergent additive for better cleaning efficiency. Regular Agitene is especially recommended for cleaning electrical parts since it will not harm varnish and dries film free.

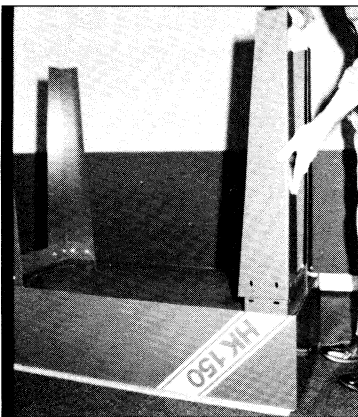


3. Place cylindrical screen filter in tank below motor-mount hole and loosen nuts on screws in flange of pump and motor assembly.



4. Drop pump body through mounting hole so that switch faces right side of tank. Slip plastic tube connected to pump discharge into hole nipple.

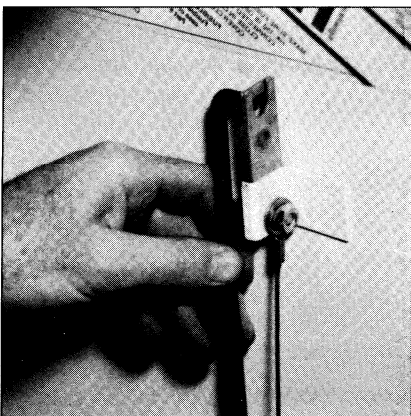
SET UP AND INSTALLATION



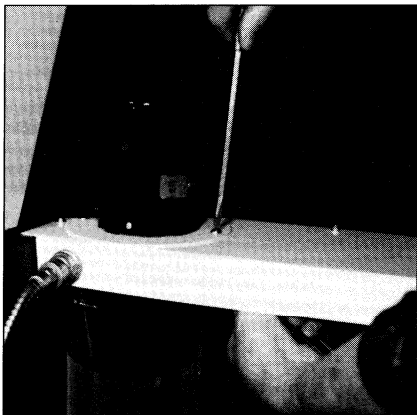
1. Turn tank upside down and fasten legs to **outside** of corner brackets using fasteners provided.



5. Use pliers to loosen wire clamp and slide up to secure hose.



2. Lift lid and insert rod in fusible link to prop open. See "WARNINGS/CAUTIONS" section.



6. Tighten screws securing motor mounting flange.

WARRANTY

Graymills Corporation warrants that the equipment manufactured and delivered, when properly installed and maintained, shall be free from defects in workmanship and will function as quoted in the published specification. **Graymills** does not warrant process performance, nor assume any liability for equipment selection, adaptation, or installation.

Warranty does not apply to damages or defects caused by shipping, operator carelessness, misuse, improper application or installation, abnormal use, use of add-on parts or equipment which damages or impairs the proper function of the unit, and modifications made to the unit.

Warranty does not apply to expendable parts needing replacement periodically due to normal wear and tear.

A new Warranty period shall not be established for repaired or replaced materials or products. Such items shall remain under Warranty for only the remainder of the Warranty period of the original material or product.

THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, WHETHER ORAL, WRITTEN, EXPRESSED, IMPLIED OR STATUTORY. **GRAYMILLS CORPORATION** MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE AFORESTATED OBLIGA-

TION ARE HEREBY DISCLAIMED BY **GRAYMILLS CORPORATION** AND EXCLUDED FROM THIS SALE. **Graymills** warranty obligations and Buyer remedies (except to title), are solely and exclusively stated herein. In no case will **Graymills** be liable for consequential damages, loss of production, or any other loss incurred due to interruption of service.

Graymills' obligation under this Warranty shall be limited to:

1. Repairing or replacing (at **Graymills** sole discretion) any non-conforming or defective component within one year from the date of shipment from **Graymills**. Exceptions: Parts cleaners with thermoplastic tank and lid are warranted for 5 years from the date of shipment against cracking or splitting under normal use.
2. Repairing or replacing (at **Graymills** sole discretion), components supplied by, but not manufactured by **Graymills**, to the extent of the warranty given by the original manufacturer.
3. This warranty does not cover rusting of a mild-steel parts cleaner used with aqueous (water-based) materials.

Buyer must give Graymills prompt notice of any defect or failure.

If you believe you have a Warranty claim, contact **Graymills** at (773)248-6825. Any returned material must have an RMA number on the outside of the package and shipped prepaid or shipment will be refused. **Graymills** will promptly examine the material and determine if it is defective and within the Warranty period.

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