

SAFETY-KLEEN

MODELS 250/260 & 257/267

RECYCLING PARTS WASHERS

Operator Booklet



Customer should read and retain this booklet.

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LOCAL SAFETY-KLEEN BRANCH

OFFICE ADDRESS

PHONE NUMBER

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SAFETY MEASURES



Safety in the workplace is dependent upon the proper use of this unit and the solvent used in it. Therefore, it is important to carefully follow all safety/safe-use instructions and operational procedures provided in this booklet, as well as all instructions included in the Safety Data Sheet (SDS) and on the unit labels. Failure to do so may create a dangerous working environment.

Keep a copy of this booklet and Safety Data Sheet for the solvent in use near the unit for quick and easy reference.



This unit has been evaluated by an Occupational Safety and Health Administration (OSHA) approved Nationally Recognized Testing Laboratory (NRTL) and found to be in compliance with the following US and Canadian safety standards:

- UL 2208 - Standard for Solvent Distillation Units
- UL 1204 - Outline of Investigation for Parts Washers
- CSA C22.2 No. 88 - Standard for Industrial Heating Unit

Important Safety Instructions

1. In any emergency, turn off the unit and disconnect the electrical supply
2. Units are only to be used to recycle aliphatic hydrocarbon solvent (e.g., Safety-Kleen Virgin 105 Solvent, Safety-Kleen Premium Solvent), select VOC exempt solvents (e.g., Safety-Kleen QSOL 220 and QSOL 300 Cleaning Solvents), or technical equivalents, with a flash point $\geq 105^{\circ}\text{F}$, an auto-ignition temperature $\geq 350^{\circ}\text{F}$, and an upper boiling point of 425°F .
3. Do NOT add other chemicals to the cleaning solvent including, but not limited to, kerosene, fuel oil, gasoline, detergents, or chlorinated solvents. The use of any other cleaning agents could potentially cause a hazardous condition.
4. CAUTION! Avoid distilling solvents that may include unstable reactives, such as nitrocellulose.
5. DO NOT remove solvent for remote cleaning operations.
6. Avoid contact with solvent or vapor. Always wear appropriate personal protective equipment (gloves, apron, eyewear, respirator [where required]) to meet OSHA protection standards. ALWAYS WEAR SAFETY GLASSES. Consult the SDS and follow all recommended safety information.
7. CAUTION! To provide continued protection against the risk of electric shock, fire and explosion, connect the unit directly to a dedicated and grounded 120V, 60Hz, 20A electrical outlet.
8. Care must be taken as burns can occur from touching hot parts.
9. Do NOT operate damaged unit until it has been examined by a qualified technician.
10. Always unplug unit from the electrical outlet when not in use or when being maintained, serviced, or repaired. Never use the cord to pull the plug from the outlet. Grasp plug and pull to disconnect.
11. To reduce the risk of fire, do NOT operate unit in the vicinity of any open containers of flammable liquids (e.g., gasoline) or near any ignition source. Keep away from heat, spark, or flame.
12. Do NOT place hot parts in contact with the solvent.

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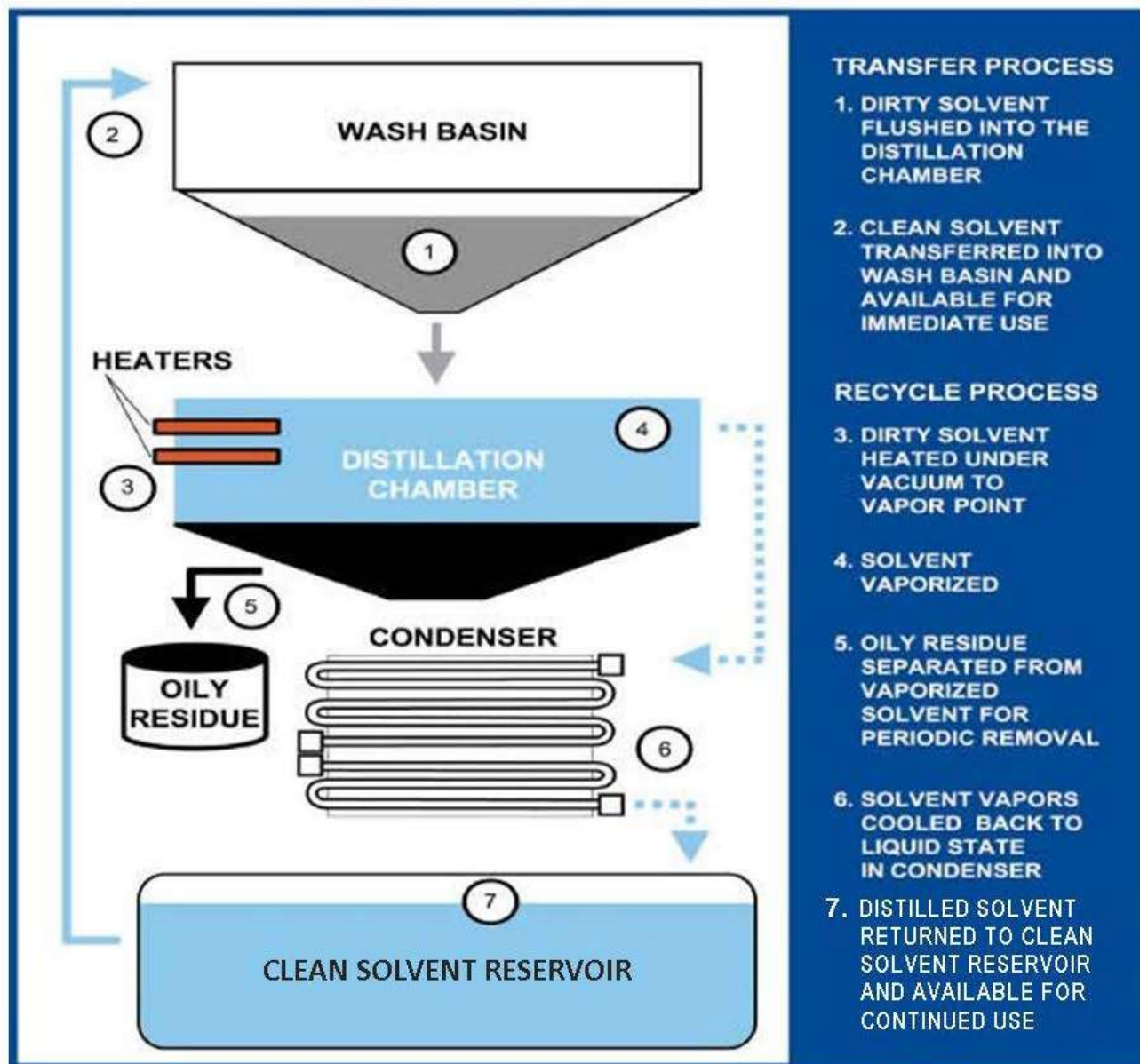
13. Do NOT clean friction materials (e.g., brake linings and clutch surfaces) in this unit. Do NOT clean or degrease porous or absorbent materials, such as cloth, leather, wood, or paper in this unit.
14. To reduce the risk of electric shock, do NOT use on wet surfaces or expose to rain. Do NOT operate any electrical apparatus inside the unit.
15. Do NOT use below garage floor or grade level.
16. Do NOT smoke, eat, or drink in the work area. Use good personal hygiene. Wash hands thoroughly with soap and water after handling. Clean water should be available in work areas for flushing the eyes and skin.
17. Do NOT modify this unit. Modification may cause personal injury and/or property damage, and will void unit warranty and the NRTL listing.
18. Do NOT operate this unit in any manner that can cause splashing or mist to form.
19. Drain all dirty parts before cleaning in the unit.
20. Do NOT lean into this unit.
21. Do NOT use compressed air to dry parts.
22. Close the lid when the unit is not in use.
23. Do NOT operate the unit if a leak is apparent or occurs during use. Slippery conditions can result. Consult SDS for clean-up measures. Contact your Safety-Kleen Representative for repair.
24. The fusible link wingnut that is used to secure the lid in an open position is made of a fusible alloy designed to melt in the event of a wash basin fire, causing the lid to automatically close. Do NOT replace, modify, or obstruct the fusible link assembly. Do NOT leave unattended objects in the wash basin that can interfere with proper lid closure. Do NOT hang anything on the lid.

Save These Instructions

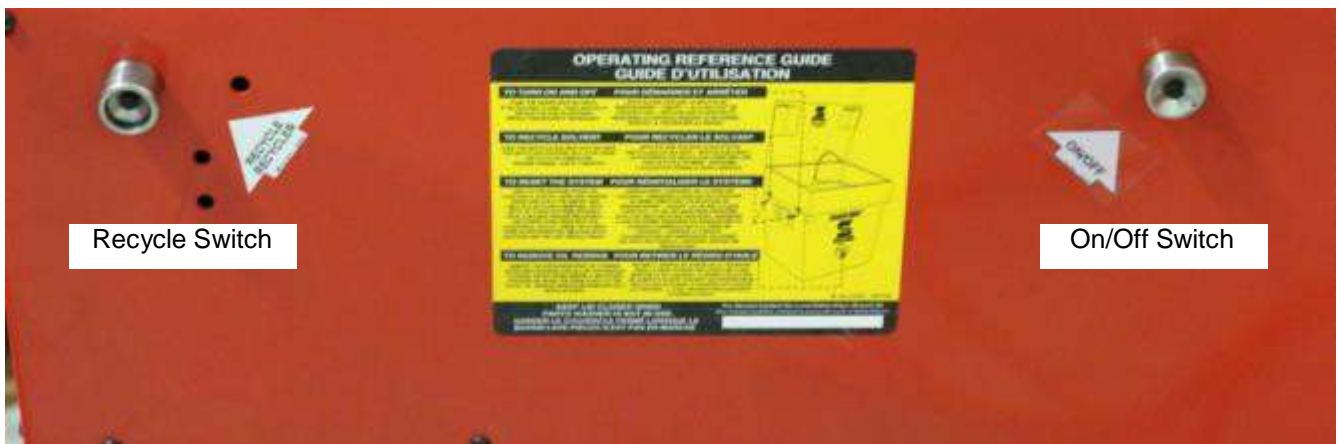
SAFETY-KLEEN M250/260/257/267

The Safety-Kleen Models 250/260 and 267/257 Recycling Parts Washers utilize a patented low temperature vacuum distillation process to remove contaminants like oil and solids from the solvent used for degreasing parts.

RECYCLING PROCESS



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SPECIFICATIONS

FLOOR SPACE	MODEL 250	MODEL 260	MODEL 257	MODEL 267
Width (left to right)	39" (99 cm)	39" (99 cm)	45" (114 cm)	39" (99 cm)
Depth (front to back)	30" (76 cm)	30" (76 cm)	33" (84 cm)	29" (74 cm)
Height with lid closed	40" (101 cm)	40" (101 cm)	40" (101 cm)	40" (101 cm)
Height with lid open	70" (178 cm)	70" (178 cm)	70" (178 cm)	70" (178 cm)
Rear Spacing Clearance	6" (15 cm)	6" (15 cm)	6" (15 cm)	6" (15 cm)
Left Hand Side Clearance	4" (10 cm)	4" (10 cm)	4" (10 cm)	4" (10 cm)
WASH BASIN				
Width (left to right)	34" (86 cm)	34" (86 cm)	37" (95 cm)	37" (95 cm)
Length (front to back)	25" (64 cm)	25" (64 cm)	27" (69 cm)	27" (69 cm)
Depth	6" (15 cm)	6" (15 cm)	6" (15 cm)	6" (15 cm)
VOLUME CAPACITY				
Wash Basin	5 gal (19 L)	5 gal (19 L)	5 gal (19 L)	5 gal (19 L)
Clean Solvent Reservoir	25 gal (110 L)	20 gal (76 L)	25 gal (110 L)	20 gal (76 L)
WEIGHT CAPACITY				
Maximum Work Load	500 lbs (227 kg)	500 lbs (227 kg)	500 lbs (227 kg)	500 lbs (227 kg)
Shipping Weight	355 lbs (161 kg)	326 lbs (147 kg)	385 lbs (174 kg)	342 lbs (155 kg)
ELECTRICAL				
Grounded, dedicated outlet requirements	120V, 60hz, 20A	120V, 60hz, 20A	120V, 60hz,20A	120V, 60hz, 20A
Current Draw	12.7A	12.7A	12.7A	12.7A
MISCELLANEOUS				
Operating temperature	103°F (39°C)	103°F (39°C)	103°F (39°C)	103°F (39°C)
Fusible Link Melt Temperature	158°F (70°C)	158°F (70°C)	158°F (70°C)	158°F (70°C)
NRTL listings	cETLus	cETLus	cETLus	cETLus

SITE REQUIREMENTS

1. **WARNING!** Risk of explosion. This unit has internal arcing or sparking parts, which should not be exposed to flammable vapors. The product should not be located in a recessed floor area or below floor level.
2. This unit is designed for use in an environment with no forced ventilation and a maximum operating temperature of 103°F (39°C). Under these conditions, the unit must be spaced a minimum of 3 feet (1 meter) from potential sources of ignition such as electrical receptacles, switches, pilot lights, fixtures, contacts, and other similar units that can produce sparks. If the unit is used in higher temperatures, an increase in the spacing to sources of ignition must be considered.
3. Confirm the M250 is located
 - ✓ on a level surface
 - ✓ within 6 feet of a grounded, dedicated electrical outlet
4. Verify that the power outlet meets the required specifications: 120V, 60hz, 20A.

OPERATION

- The lid incorporates a fusible link. Parts large enough to prevent the lid from closing should never be left unattended in the cleaning area as they will interfere, in the case of a fire, with the fusible link disengaging and allowing the lid to close.
- Drain fluids and remove excess debris from dirty parts before placing them in the equipment for cleaning. The waste should be deposited into an appropriate waste container, *not in the equipment*. Failure to do so will cause a mechanical breakdown, requiring a service call.
- Ensure the parts washer is connected to a functioning 120V, 60Hz, 15A electrical outlet.
- Put on protective eyewear, gloves, clothing, and shoes.
- Raise the lid and engage the fusible link assembly to secure the lid in an open position.
- Direct the spigot and brush downward into the wash basin.

CLEANING DIRTY PARTS

1. Push the On/Off button once and release quickly to turn the recycler on. If solvent does not flow when the On/Off button is pushed, then push and hold the On/Off button again for 20 seconds. Repeat procedure if necessary.
2. Clean all parts in the wash basin. Avoid splashing outside of the wash basin. When not in use, place the brush in the wash basin.
3. Drain cleaned parts in the wash basin for approximately 15 seconds or until dripping ceases.
4. **IMPORTANT:** *Once parts cleaning has ceased, or if the washbasin is not draining, remove the strainer cover plate to access the strainer basket. Clean both components and deposit waste debris into an appropriate side waste container. Do not deposit debris into the wash basin. Very small solids and particulates deposited into the wash basin will clog the system. Once cleaned, replace the cover plate and strainer basket. Failure to follow this step will result in a mechanical malfunction and service call.*
5. Close lid when not in use.



RECYCLING SOLVENT

1. Push the Recycle button once and release.
2. The LED turns blue indicating the recycle process has started.
3. The unit assumes a 4 minute operating lockout period then normal cleaning may resume.
4. The recycle process takes a total 4-5 hours to complete and turns off automatically.
5. The LED turns green when recycling is completed.
6. The Recycle button is automatically disabled for approximately one hour in order to allow the unit to cool down sufficiently.
7. NEVER open the residue drain during recycling or if hot to the touch.

RESETTING THE UNIT

1. Unplug the unit from the electrical outlet.
2. Press and hold the On/Off button.
3. Plug the power cord back in while still holding the On/Off button.
4. Release the On/Off button 5 seconds after plugging the machine back in.

REQUIRED MAINTENANCE



Oil and soils removed from the solvent during the recycling process accumulate in the distillation tank (typically, 2 to 3 quarts per week). It is **ABSOLUTELY CRITICAL** that the distillation tank be drained after recycling every batch of solvent to ensure the unit functions correctly. Failure to do so will result in mechanical breakdown and the need for a service call.

DRAINING THE DISTILLATION CHAMBER

1. Confirm the temperature indicator label on the drain bung is GREEN indicating the bung is cool to the touch.
2. Place a suitable container (e.g., 5 gallon container) under the oil drain bung and unscrew the bung.
3. Allow accumulated liquids to drain into the container.
IMPORTANT – Dispose of waste oil in accordance with all Federal, State/Provincial, and Local Regulations. For assistance, contact your local Safety-Kleen Branch.
4. When flow stops, re-install the drain bung and hand tighten.

Temperature Sensor



TROUBLESHOOTING

PROBLEM	POSSIBLE SOLVENT
Pump Doesn't Run	Press On/Off switch. Check power cord connection and power supply/outlet. Reset unit by unplugging the unit, then press and hold On/Off and Recycle buttons while someone else plugs the power cord back in. Contact your Safety-Kleen Representative.
Pump Runs But No Solvent Flow	Hold On/Off Button for 20 seconds to bring solvent up to the wash basin. Contact your Safety-Kleen Representative.
Recycle Process Not Starting	Wait for 1 hour if machine just completed a cycle. Check power supply/outlet to see if breaker was tripped. Contact your Safety-Kleen Representative.
Solvent in Distillation Chamber	Cycle may have stopped part way through, press the recycle button. The unit is designed to recycle solvent with a boiling point less than 450°F. Compounds with a higher boiling point will not recycle. Contact your Safety-Kleen Representative.
Solvent does not Stay in Wash Basin	Contact your Safety-Kleen Representative.

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Pump Sounds Louder than Normal	Ensure the unit is installed on a level surface, rebalance if needed. Distillation chamber is overfilled, empty waste oil into a bucket and restart recycle mode. Contact your Safety-Kleen Representative.
Machine is Beeping	Solvent level in clean solvent reservoir too low. Contact your Safety-Kleen Representative.

SERVICE AND REPAIR

In accordance with your service agreement with Safety-Kleen Systems, Inc., a Safety-Kleen service representative will:

- Install and set up the Safety-Kleen unit.
- Be your primary contact with Safety-Kleen.
- Put the name and phone number of the nearest Safety-Kleen branch on the unit and/or on the inside cover of this booklet.
- Provide information about your service contract with Safety-Kleen.
- Explain what solvent is provided with the unit, provide SDS's and answer any questions about the solvent.

This unit is to be serviced only by authorized Safety-Kleen personnel. If you have any questions, require repairs or early service, contact your local branch or Safety-Kleen at 1-800-669-5740. Additional assistance can be found at www.safety-kleen.com.



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