

WARNINGS

- DO NOT ATTEMPT TO INSTALL OR OPERATE THIS FILM PROCESSOR UNTIL YOU HAVE READ AND UNDERSTOOD THIS MANUAL PROVIDED WITH THIS UNIT. BE ALERT TO ALL CAUTION AND WARNING NOTICES.
- DO NOT DISCARD THE SHIPPING CONTAINER IF DAMAGE IS NOTED UPON RECEIPT. RETAIN THE SHIPPING CONTAINER AND TAKE PICTURES OF THE DAMAGE AND THE CARTONS. BY LAW AS THE SHIPPER, FISCHER CANNOT HANDLE, PROCESS, OR INITIATE ANY DAMAGE CLAIMS ON YOUR BEHALF. ONLY YOU AS THE RECIPIENT MAY FILE A SHIPPING DAMAGE CLAIM.
- THE PROCESSOR IS HEAVY, EVEN WHEN THE RACKS ARE NOT INSTALLED AND THERE IS NO FLUID IN THE TANKS. IT IS RECOMMENDED THAT THE PROCESSOR BE REMOVED FROM THE SHIPPING CARTON WITH PROPER LIFTING EQUIPMENT OR WITH AT LEAST TWO PEOPLE. LIFT WITH YOUR LEGS, NOT WITH YOUR BACK.
- THE PROCESSOR SHOULD NEVER BE MOVED WITH LIQUID INSIDE. SHIFTING LIQUIDS INSIDE THE TANK MAY DAMAGE THE TANK. SHIFTING LIQUIDS MAY RESULT IN SPILLS ONTO SENSITIVE MECHANICAL, ELECTRICAL, AND ELECTRONIC COMPONENTS THAT COULD CAUSE SEVERE OPERATIONAL DAMAGE. IN ADDITION, SHIFTING LIQUIDS MAY RESULT IN CROSS-CONTAMINATION OF CHEMICALS IN THE TANKS. IF THAT SHOULD OCCUR, THE TANKS SHOULD BE DRAINED AND FLUSHED. ALWAYS DRAIN A FISCHER PROCESSOR BEFORE ATTEMPTING TO MOVE IT.
- DO NOT OPERATE A PROCESSOR WITHOUT DEVELOPER, FIXER, AND WATER IN THE TANKS. OPERATING A DRY PROCESSOR WILL RESULT IN SEVERE OPERATIONAL DAMAGE. THE DEVELOPER, FIXER, AND WASH SECTIONS OF THE TANK MUST BE PROPERLY FILLED BEFORE TURNING THE PROCESSOR ON. THE WATER SOLENOID HAS BEEN DESIGNED FOR REPLENISHMENT ONLY.
- IN SOME MUNICIPALITIES, LOCAL ENVIRONMENTAL LAWS PROHIBIT THE DISPOSAL OF DEVELOPER, FIXER, AND WASH WATER INTO THE SEWER SYSTEM. CHECK WITH YOUR LOCAL EPA (Ministere de l'industrie, Direction generale des strategies industrielles) ON ACCEPTABLE DISPOSAL METHODS.
- ALWAYS TURN THE PROCESSOR TO THE "OFF" POWER POSITION WHEN SERVICING.
- THERE ARE MOVING PARTS INSIDE OF THE PROCESSOR INVOLVED IN THE OPERATION OF THE PROCESSOR. USE EXTREME CAUTION WHEN CLEANING.
- CERTAIN PARTS OF THE PROCESSOR OPERATE AT ELEVATED TEMPERATURES. PARTS LIKE THE HEAT EXCHANGER, DEVELOPER HEATER, DRYER PLENUM, AND INFRARED DRYERS ARE HOT DURING OPERATION. WAIT 20 MINUTES AFTER SHUTDOWN BEFORE TOUCHING ANY HOT PARTS PRIOR TO SERVICING OR CLEANING. USE EXTREME CAUTION.
- NEVER DISCONNECT THE FLOATING LEVEL SENSOR IN A 3000SV. SERIOUS DAMAGE COULD RESULT.

CHECKLIST BEFORE OPERATING THE PROCESSOR

- ❑ Is the processor in a totally light-free darkroom?
(If not, film quality will be degraded. Please note that all lights on the Fischer processor are specially designed red lights which will not harm the quality of the film.)
- ❑ Is the darkroom temperature 75°F (23.8°C) or below?
(If not, some type of temperature control such as an exhaust fan, register, or individual thermostat control should be installed.)
- ❑ Is the processor level?
(If not, drain the processor and adjust the leveling feet on the bottom of the processor.)
- ❑ Is the processor plugged directly into a dedicated power source? (If not, power surges may damage the processor.)
- ❑ Is the processor supplied with cold water between 35°F (1.6°C) and 75°F (23.8°C)? (If not, the processor may run at too high a temperature and film quality will be degraded.)
- ❑ Is the processor connected to the water supply by a high pressure hose connection? (If not, the supply hose may burst.)
- ❑ Is the water supply clean and free of contaminants? (If not, a commercial grade water filter should be installed.)
- ❑ Is the water supply pressure a maximum of 65 psi with a minimum flow of 2 quarts (1.9 liters) per minute during operation? (If not, the processor will not perform as expected, and the supply hose may burst.)
- ❑ Does the developer replenishment tank contain sufficient chemical and is the ¼" diameter red hose placed into the developer? (If not, an airlock can develop and processor damage may occur.)
- ❑ Does the fixer replenishment tank contain sufficient chemical and is the ¼" diameter blue hose placed into the fixer? (If not, an airlock can develop and processor damage may occur.)
- ❑ Are the tops of the replenishment tanks below the bottom of the processor? (If not, an airlock can develop and processor damage may occur.)
- ❑ Do all drain hoses exit the processor on a continuous downward slope to the drain? (If not, the drain tubing will sag and trap water which could cause the drained chemistry to back-up into the processor.)
- ❑ Are all drain hoses above the level of liquid in the drain? (If not, the processor could create a suction to draw the drained chemistry back into the processor.)
- ❑ Are all drain hoses free and clear of obstructions? (If not, chemistry spills and contamination will occur.)

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STARTUP

- Before daily use, open the top cover and wipe off the top rollers with a damp cloth that is lint-free and non-abrasive. This removes any dried chemical residue that may have formed overnight.
- Before processing any film, it is recommended that 2 or 3 “cleanup” films be sent through the processor to help remove any chemical buildup. “Cleanup” is film that is used, exposed film of no further use.

NOTE: If excessive residue is present, clean the racks according to the Cleaning Instructions in the Maintenance Section of this manual.

- Turn the Power Switch to the “ON” position to start the 20-25 minute warm-up cycle, which allows the chemicals to reach proper operating temperature. When the processor is first turned on, the drive motor, dryer blowers, dryer heaters, and water solenoid will begin to operate and will allow visual verification that the racks, guides, rollers, and gears are operating properly and smoothly.
At the end of the warmup cycle, the Developer Ready and Feed Film lights will light, indicating that the system is ready for film processing.

NOTE: Each time the Processor is turned OFF and then turned ON, the warmup cycle is activated. The Processor should not be turned OFF except during Shutdown at the end of the day, or during maintenance and troubleshooting.
During the day, when the Fischer Processor is not in use, the Standby Mode will activate to conserve energy while maintaining proper operating temperature.
In the Standby Mode, the gear drives are shut down.

FILM DEVELOPMENT

- Make sure the Top Cover and Light Cover are on the Processor.
- Turn out the lights. You must develop film with only a Safe Light on.
- Make sure the Feed Film and Developer Ready lights are on.
- Raise the Light Cover and place a film on the Top Cover in front of the Film Entry Slot.
- Gently push the film into the processor by pushing the end of the film. Do not “palm” the film as that may result in scratches on the film. The film moving into the processor will activate the Feed Switch, starting the Run Mode. In this mode, the Drive Motor, Recirculating Pumps, Dryer Blowers, and Water Solenoid will operate, cycling on and off as required, and the Replenishment Pumps will operate as long as the film is passing over the Film Switch Activator.

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NOTE: As long as the Film Switch Activator is actuated by the film in the Developer Rack, the front indicator light, marked FEED FILM will be OFF, and remain off until the film has exited the Developer Rack. When the FEED FILM light is ON, another film may be fed into the Fischer Processor.

- When the film exits the Fischer Processor, inspect the cleared film for any overexposed areas (that may have occurred from unwanted light) and from scratches (that may have occurred from oxidation buildup).
- After the trailing edge of the film leaves the Film Switch Activator, the Cycle Timer begins.

NOTE: If no film inserted into the Fischer Processor for 4 ½ minutes, the Processor goes into the Standby Mode. Exposed film may be fed into the Processor at any time when it is in the Standby Mode. If the Processor is turned off and then back on, it will automatically start the warmup cycle.

NOTE: If the Fischer Processor is not used for extended periods (such as, overnight), turn the Power Switch OFF. This will extend the Processor life and help reduce chemistry oxidation.

SHUTDOWN

- Before Shutting Down, Insert 2 or 3 “clean up” films through the Processor. “Clean-up” film is exposed film that is of no further use. This film can be used to absorb some residue that has built up during operation. “Clean up” film may be used three or four times for this purpose.
- Wipe off the external surfaces of the Processor, Replenishing Tanks, and other surfaces that may have been exposed to chemical spills.
- Turn the Processor Power to “OFF”.
- Wipe off the top rollers with a damp cloth that is lint-free and non-abrasive. This removes any chemical residue that may dry overnight.

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PERIODIC CLEANING

It is recommended that the Fischer Processor be cleaned every 4-6 weeks or when there is a decline in film quality (i.e. light films or films not drying properly). It is recommended a regular maintenance schedule be incorporated as part of a regular maintenance schedule. The Futura Series processors are easy to clean and maintain, but care must be taken when adding chemicals to the tanks and when removing and replacing the racks. Contamination may occur while lifting a fixer rack out of its tank and allowing fixer to drip off the rack into the developer tank. The need to maintain chemical purity cannot be sufficiently emphasized, especially with respect to the purity of the developer.

Periodic cleaning consists of:

1. Draining, flushing and refilling the developer, fixer and wash tanks.
2. Cleaning the 4 transport racks and all floater sensors.
3. Wiping down tanks, film-feed trays, and processor exterior.

NOTE: In some municipalities, local environmental laws do not allow the disposal of developer, fixer, or wash water into the municipal sewer system. Check with the local EPA for proper disposal methods.

NOTE: Turn the Fischer Processor OFF before cleaning! Failure to do so could cause severe damage to the Recirculating Pumps.

1. Drain, Flush, Refill Tanks (Developer, Fixer, Wash)

With the Fischer Processor OFF:

- a) Remove the following:
 - Fixer Drain Tube
 - Developer Drain Tube
 - Wash Drain Tubes
 - Level Sensor Floaters (if installed)
Place these level sensor floaters in warm water for 5 to 10 minutes.
- b) Raise the adjustable Film Guides before removing the Racks
- c) Raise adjustable Film Guides before removing the Racks
- d) Remove Processor Racks

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- e) Rinse the Tanks with clean water, then wipe them out with a damp, lint-free, non-abrasive cloth. Do not allow foreign materials into the Tanks. Keep the Tanks free of chemical residue buildup.

NOTE: The recommended cleaning method for removing stubborn chemical residue buildup in the tanks is to use Hot Water and a Damp, Lint-Free, Non-Abrasives Cloth. Do not use paper towels to clean the tanks as pieces of paper towel could clog the recirculation pumps.

NOTE: DO NOT USE STEEL WOOL! The Tanks are made of ABS, one of the finest materials available for chemical tanks. However, do not use abrasive materials to clean them.

2. Clean Transport Racks, Floater Sensors

- a) Clean the Racks using a soft-bristle brush and mild detergent. Do not use any abrasive materials!
(See dealer for recommended cleaners)
- b) Rinse Racks thoroughly with clean, warm water.
- c) Thoroughly flush water through the Processor Tanks and through the lines to clean the Fischer Processor.
- d) Fill the Processor Tanks with one (1) gallon of water and temporarily turn the Fischer Processor ON long enough to run clean water through the system; then turn the Fischer Processor OFF. If the Fischer Processor is extremely dirty, the above step may have to be repeated before the exiting water appears clear and clean.
- e) If cross-contamination has occurred in the Replenishing Tanks, rinse them with warm water and fill with one to two gallons of water. Also, fill both Developer and Fixer sections of the Fischer Processor Tank, each with 1 gallon.
- f) Again, turn the Fischer Processor ON and activate the Feed Switch long enough, about three minutes, for clean water to circulate through the Replenishing Pump.
- h) After rinsing the Fischer Processor, and wiping the Tanks, be sure the Drain Tubes are properly seated in the Tanks.
- i) Fill the Tanks to the lowest groove on the Drain Tubes. This is the proper fill line.
- j) Carefully lower the Transport Racks into their respective tanks.
- k) If Floating Level Sensors are part of the processor you have, reinstall with the circular marks facing up.

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3. Wipe Down Tanks, Film Feed Tray, Process Exterior

- a) Using clean, non abrasive material, wipe down the exterior surfaces of the Fischer Processor, the Film Feed Tray, and the Chemical Tanks. A mild detergent may be used if necessary.

TROUBLE SHOOTING: *Futura 3000/4000*

Problem	Possible Solution
The Fischer Processor Does Not Come On	<ul style="list-style-type: none"> • Confirm that the Fischer Processor is plugged in. • Confirm that there is appropriate power to the outlet. • Check the fuse located behind the front panel.
The Film Comes Out Dark	<ul style="list-style-type: none"> • Review the film handling and processing procedures. • Ensure that the technician is using the proper procedures. • Verify that darkroom is light-tight. Check for any other possible sources of light fogging. • Verify that the Fischer Processor is on a flat, clean, level surface and that the Processor Frame has not been distorted (from it being accidentally placed on an uneven or nonlevel surface). • Verify that the Top Cover and Light Cover were properly seated; In this case, the fogging will tend to be along the end of the film, or will be in patches across the film. • Verify that the light cover was not lifted before the Feed Light has come on and that the Beeper has sounded. Please note that there is no Beeper on the 3000SV. If an unexposed film is fed through the Fischer Processor and it emerges totally transparent, no light leaks exist. • Verify that no chemical cross-contamination has occurred. • Verify the film manufacturer's light recommendations. • Verify that light <u>is not</u> getting into the boxed film. • Verify the operating temperature of the Developer Solution inside the Fischer Processor tank: Model S: 92°F Model ST & SV: 94°F Model M: 92°F Model MT: 95°F Operating the Developer Solution above the recommended operating temperature for that Fischer Processor model will darken the film.
The Film Comes Out Light	<ul style="list-style-type: none"> • Verify that the Fischer Processor Chemistry Level is at the proper level. Replace or replenish chemicals. • Verify that no cross-contamination has occurred. • Verify that the correct type of intensifying screens were used with the X-ray machine.
The Film Comes Out Dingy or Marked	<ul style="list-style-type: none"> • Verify Water Tank cleanliness. Make sure no algae is present. • Determine if Light Fogging is occurring. Review possible causes, above, for dark film. • Verify that no cross-contamination has occurred. • Verify that the Transport Racks are thoroughly cleaned. • Verify that the film date has not expired. • Verify that film is recommended for use in an automatic Fischer Processor, with R/P chemistry.

FREQUENTLY ASKED QUESTIONS

Question	Recommendation
How do I connect my Fischer Processor to a SILVER RECOVERY unit?	Contact your Authorized Fischer Dealer for guidance .
How do I adjust the Developer Temperature	The temperature is set at the factory and no adjustment should ever be required. If, conditions do arise where an adjustment may be necessary, contact your Authorized Fischer Dealer.
How do I add chemistry to the Fischer Processor Tanks?	If you have level sensing floaters on your processor, the chemistry levels in the tanks are monitored and maintained automatically. If you do not, running film during the day will automatically replenish the chemistry levels. If you do not develop many films, running clean-up films through the processor on a daily basis will automatically replenish the chemistry levels. If you have problems with low chemistry levels in the tanks, contact your Authorized Fischer Dealer to increase the replenishment rates. Make sure you always maintain a minimum of 1 gallon of chemical solution in the storage tanks connected to the color-coded hoses.
If I process only a few films a day, should I turn the Fischer Processor OFF between uses?	There is no need to turn the Fischer Processor OFF during low usage days. It is designed to go into an energy-saving, stand-by cycle when not in use. Only turn the power OFF overnight.
What should I do if chemistry is spilled in the Fischer Processor?	Unplug the Fischer Processor and call your Authorized Fischer Dealer for service before any damage is done to any electrical components.