

LSN-SR

Automated Neutralization System

Features/Benefits

- On-Board pH sensor designed for CTP developer constantly measures pH of effluent in tank - minimizes usage of neutralizer.
- Digital readout of pH provides constant monitoring of effluent pH.
- Heavy-duty output bellows pump provides enough pressure to push the neutralized effluent through the filter, silver recovery and up 8-10' if necessary.
- Divert Valve allows user to bypass neutralization to pump to drain when rinsing processor tanks.
- Proportional pH controller automatically doses only the neutralizer necessary to reach set-point, minimizing overshoot.
- On-board low-profile 20 gal. tank rolls under processor tank, reducing footprint.
- Optimized for the Agfa LithoStar CTP processors allows quick and easy installation and use.

Processing computer-to-plate media requires a very high pH developer, and unlike silver-based film developing, the process does not utilize a low pH fixer to neutralize the processor effluent. Many municipalities discourage high pH effluents and recognize neutralization as an acceptable approach to reducing the problem. In addition, silver-based CTP media has an undesirable silver content in the effluent. Again, unlike film processing, the silver cannot be removed using an electrolytic silver recovery unit. Most of the silver present is particulate with a minimum amount dissolved or "ionic."

The LSN-SR is designed to automatically neutralize CTP processor effluent to a user determined pH. When the pH setpoint is reached the bellows pump will initiate, pumping neutralized effluent through a high capacity particulate filter where the particulate silver is removed. The output can be connected to user-supplied, metallic exchange silver recovery columns to remove the remaining ionic silver. Procam offers an optional Polishing Filter Kit for removing the very small colloidal silver particulate. The LSN-SR was designed in conjunction with Agfa personnel to optimize the interfaces with the processor.



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Additional Information

The LSN-SR is simple to install and use. Simply attach the plastic cap/probe assembly that is on the drain line from the processor to the threaded standpipe on the LSN-SR. Connect the 3/4" hose barb on the outlet of the filter housing to a user-supplied, silver-recovery column that utilizes metallic exchange or our optional polishing filter kit. The combination of the high capacity, dual gradient filter cartridge, the polishing filter kit and the silver-recovery columns will effectively remove both the particulate silver and the trace ionic silver in the effluent. Important note: All metallic exchange columns require the pH of the effluent to be treated to be between 7 and 8 to work efficiently. Connect the outlet of the silver recovery columns to drain. Next, remove the cap from the NS5 and install the pick-up tube assembly, attaching the other end to the dosing pump. Plug the unit in to 115v electrical outlet and turn on the power switch. Installation is basically complete. The unit will now automatically turn on when solution lifts the float switch inside the tank and start the mixing and neutralization. When the pH reaches setpoint the bellows pump will actuate and start pumping solution out of the tank at the rate of 480 ml/min. The bellows pump is capable of pumping the treated effluent up 8-10' and the flow rate is adjustable. A pressure relief valve is incorporated on the outlet of the bellows pump to keep from overpressurizing the silver recovery columns since most of these are usually low pressure housings.

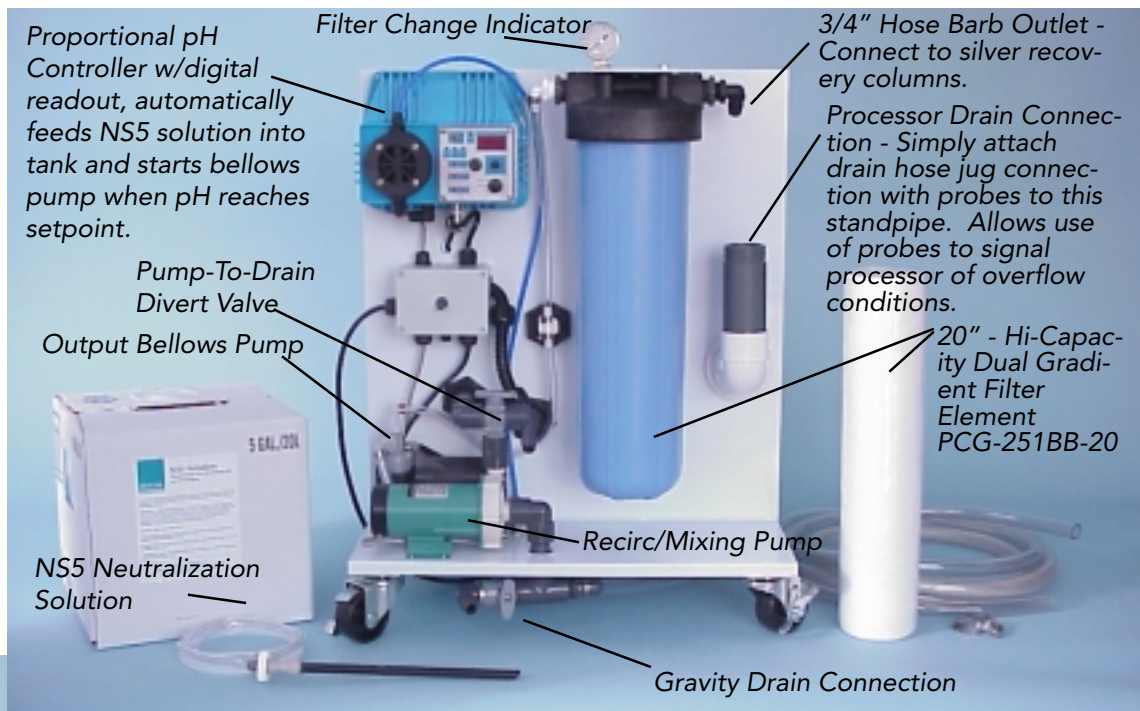
Consumables:

NS5 Neutralization Solution - 5 gal. Cubitainer
PCG-251BB-20 Hi-Capacity, Dual Gradient Sediment Filter (PCG-251BB-98 for the PropH-A)

Model Numbers:

Use the LSN-SR for the LP150 Processors.

Use the PropH-A for the LP82 or 85 Processors.



Specifications:

Power	115 volt 3 amp 60 hz
Dimensions	24" wide 33" high 10" deep outside of processor 28" combined with tank under processor.
Weight	90 lbs. shipping weight
Tank capacity	20 gallons
Connections	3/4" hose barb outlet, 1" hose barb safety overflow, Buttress Thread Processor Connection

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