

Haselden Company Inc.
Preventative Maintenance Schedule
Product & Syrup Recovery Systems

All of the following information was extracted from manuals that can be located within the Haselden Operations Manual that was provided to you upon installation completion of the Product & Syrup Recovery Systems. If you have any questions or require additional information please first consult the appropriate manual for the particular piece of equipment you are working on, and contact us with any questions when necessary.

It is strongly advised that you read the maintenance section of the operations manual for the particular piece of equipment you are working on prior to performing any maintenance on that item. There may be important safety procedures that must be executed prior to performing the maintenance.

Maintenance

Equipment	Part	Maintenance	Frequency
Gems Sensors SureSite Magnetic Liquid Level Indicator	Weldment and Float	The only maintenance typically required is to ensure that the internal walls of the weldment and the float are free from foreign matter. This may be accomplished by removing the float assembly from the unit and wiping both the float and the inside wall of the float chamber or weldment.	Any maintenance interval is to be established by the user of the SureSite and would depend upon the characteristics of the application. Maintenance could coincide with tank cleaning or flushing.
Endress & Hauser Electromagnetic Flowmeter	Exterior	When cleaning the exterior of measuring devices, always use cleaning agents that do not attack the surface of the housing and the seals.	As needed.
Same as above	Seals	The seals of the Promag H sensor, and particularly the gasket seals (aseptic version), must be replaced periodically.	The period between changes depends on the frequency of cleaning cycles, the cleaning temperature and the fluid temperature.
Alfa Laval Sanitary Remote- Controlled (SRC) Valve	Seals	Always keep spare rubber seals and lip seals in stock. Also, inspect for leakage on valve and ensure smooth operation	Continuous.
Same as above	Valve Rubber Seals	Replace.	After 12 months.
Same as above	Valve Lip Seal	Replace.	When replacing valve rubber seals.
Same as above	Actuator Rubber Seals	Replace.	After 5 years.

Equipment	Part	Maintenance	Frequency
Alfa Laval Automatic or Manual Butterfly (LKB) Valve	Valve Seal Rings	Replace.	After 12 months.
Same as above	Valve Bushings	Replace.	When replacing valve seal rings.
Same as above	Actuator Rubber Seals	Replace.	After 24 months.
Alfa Laval LKH Centrifugal Pump	Seals	Always keep spare shaft seals and rubber seals in stock. Also, conduct regular inspections for leakage and smooth operation.	Continuous.
Same as above	Shaft Seal	Replace complete shaft seal.	After 12 months.
Same as above	Rubber Seals	Replace.	When replacing shaft seal.
Waukesha Cherry-Burrell Universal II Series Positive Displacement Pump	Gears	Change oil (See Operations and Maintenance Manual for recommended oils and oil capacities for each gear).	Every 500 hours.
Same as above	Bearings	Grease bearings (See Operations and Maintenance Manual for recommended grease and grease quantities per bearing).	Every 250 hours.