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Chilled Water System Maintenance

Printing presses are complex machines that require regular maintenance in order to meet production demands. It is the chilled water that controls many system temperature (HUV/UV, IR, chilled rollers, ink rollers etc.), and by removing excess heat this plays a key role in your production and product quality. These Web and Sheetfed system are often overlooked “Out of sight - Out of mind” and that can prove costly. Maintaining a clean and effective water system makes good sense, or “cents.”

As the cooling fluid ages its cooling efficiencies deteriorate and without the correct chemical to water balance the internal surfaces then begin to coat with sediment, sludge, and debris buildup. Any buildup on the internal surface creates a loss of thermal hydrodynamics—internal to external limiting roller surface heat loss transfer. Loss of effective heat transfer can cause system overheating problems, and printing quality issues often experienced by press operators during longer runs “it becomes more difficult to control color”.

Baldwin can help reduce downtime and waste by making certain that your chilled water system is serviced correctly and performing as designed.

Depending upon the systems condition and size, our water system service can often be carried out in 8 hours. This service requires only a minimum amount of downtime where much of the maintenance can be accomplished while the press remains in full production. Under normal conditions, most systems will only require approximately 3 hours of downtime.

Our process is carried out in “**4-Steps**”:

- 1. Identify/Classify**
- 2. Filtration/Cleaner**
- 3. Draining/Flushing**
- 4. Stabilizing/Testing**

Step 1: We start by identifying what type of chemistry is present in your chilled water system, filtration needs, and what's best going forward. This process is carried out via a phone conversation with our Service Specialist, discussing the level of contamination, and any current problems needing resolution.

Step 2: Remove and/or clean temperature sensors, strainers, reservoir, and add system cleaner. Installation of recommended side-stream or full-flow filtration. Depending on the level of contamination our cleaner will circulate under normal production for a predetermined time.

Step 3: Drain the cleaning agent and flush the entire system with clean water. Introduce fresh water, circulate for a predetermined time, and drain again. Fill with fresh clean water, add chemical balance, test, and check/change filter as needed.

Step 4: After 30 days of running the water should be sampled again to ensure it remains stable. We can provide assistance with additional water testing and balance recommendations.

Travel hours and expenses are in addition to the in-plant estimated hours. Total travel, labor hours, and expenses will be calculated at the completion of our visit.

Please provide the following information and email to; don.starck@baldwintech.com or fax to 913-888-4015 for your Water System Maintenance service visit.

Pre-Scheduled visits with 30+ day notice receive 10% labor discount (off standard rates)

1. Contact Name: _____
2. Customer: _____
Address: _____

3. Phone# _____ Email _____
4. Press#/type/size _____ Press Mfg. _____
5. Chilling unit mfg. _____ model _____ s/n# _____
6. Open system _____ Closed system _____ Gallons of water (max capacity) _____
7. Desired Service date: _____ PO#: _____
Include PDF copy of PO

*****Special note:** if Glycol is to be removed from the system it must be contained and removed by following your local municipal legislation. Glycol or petroleum based chemicals are not allowed in any community water drainage system. Glycol must normally be barreled and sent out for disposal. Baldwin is not responsible for the disposal of any water and/or chemicals. ***

Return by email to: don.starck@baldwintech.com or fax to: 913-888-4015 include a copy of your original PO.