

ACTEGA Kelstar Technical Bulletin

Automatic Dryer Systems

Some new presses are manufactured with an automatic dryer setting. The automatic dryer setting is similar to home ovens. Once they reach the desired temperature, the oven will shut off and begin to cycle on and off. The on-off cycling of the oven will prevent some of the sheets from receiving the proper infrared energy required to dry the wet ink. This will result in sporadic sticking or offsetting in the load.

It is recommended that pressmen use the manual setting on the dryer unit. Infrared and air temperatures need to be adjusted to obtain desired load temperature. Upon first switching to manual settings, the sheets will probably go up in pile temperature considerably. Maintaining the manual setting allows the pressman to set the IR percentage to obtain desired pile temperature while maintaining a consistent infrared energy to the sheet. This in turn should eliminate any sporadic sticking or offsetting of the load and will allow the printer some latitude if presented with a drying problem in the future.

When pile temperature is at 95° F it still does not guarantee properly dried sheets upon delivery. It is very important to know how the pile temperature is obtained. A pile temperature of 95° F that is obtained solely from the infrared units will lead to slow drying coating. On the other hand, too much hot air and not enough infrared will lead to slow drying inks.

- Always run on manual setting
- Maintain air volume at 100%. Never decrease air volume in order to bring down pile temperature.
- The temperature of the air knives can be lowered, but it is important to always maintain the 100% volume.
- Set IR temperature of % to obtain desired pile temperature of 95-105°F first side of work and 85-95°F on the second side of work.
- Check air evacuation to get maximum extraction of saturated air from around delivery.

Contact ACTEGA Kelstar at 856 829 6300 or info.actega.kelstar@altana.com for additional information or technical assistance.