



# HighLiner

Digital fountain solution premixing,  
circulating and cooling systems for sheet-  
fed and web offset presses

## Dampening Systems



**BALDWIN**®

# HighLiner

## BALDWIN HighLiner – multifunctional units

*Today, offset printers must produce economically and at the highest quality level. They need steady production conditions and any means to markedly cut down the waste rate. This is why among other things a constant quality of the fountain solution during*

*Baldwin Automix AMX 227D for exact alcohol metering*



### BALDWIN HighLiner – multifunctional units

With a BALDWIN HighLiner printers will be able to monitor and instantly control several parameters and functions of the process and selectively control or change the settings. Ease of operation, accessible cabinet structure with three sections, maintainability, and minimum maintenance requirements are BALDWIN's top priority. A centralised cooling circuit is the prerequisite for a favourable price/performance ratio and outstandingly economical operation. BALDWIN HighLiner are available with different cooling capacities in air and water-cooled versions. Printers may rest assured that there will be a model to suit each individual requirement.

Due to the compact, modular structure the HighLiner series has low space requirements and meets various tasks:

- Mixing the fountain solution for offset printing
- Cooling and filtering the fountain solution
- Effective dissipation of waste heat (optional)

All HighLiner refrigeration units use environmentally friendly, CFC-free refrigerant, R 134 A.

### Fountain solution ready for use automatically

The BALDWIN HighLiner automatically mixes the fountain solution by the integrated Automix AMX 227D which is standard equipment (optional a second pneumatic metering pump can be integrated) – exactly to your parameters and reproducible at any time. The HighLiner meters the 2-propanol and the fountain solution concentrate in percent by volume.

During printing, the temperature of the fountain solution is continuously maintained at the pre-selected level by cooling in the circuit. BALDWIN offers the IpaSonic measuring system for exact measuring and metering of the 2-propanol concentration in the fountain solution as standard equipment. IpaSonic utilises the ultrasonic compression of liquid principle. The main advantage of the IpaSonic is no gradual deterioration of measuring values due to salt ingress and other contamination returning from the print processed fountain solution. Thanks to precise accurate measuring with the IpaSonic, unnecessary 2-propanol metering and increased consumption are avoided. With the Automix system AMX 227D and the ultrasonic measuring system, the BALDWIN HighLiner ensures a precise level of the alcohol percentage during printing and supplies 100 % of premixed fountain solution on each refill process. This differentiates the Automix system from other



BALDWIN HighLiner

*Baldwins precise ultrasonic measuring and metering IpaSonic system*



# HighLiner

## Conclusive concept – solid advantages



*the entire production run, low 2-propanol consumption and a consistent temperature level in the printing unit are of outstanding importance.*

methods of adding water and alcohol separately. Furthermore the unit could be switch over to alcohol substitutes.

To keep major parameters of the fountain solution automatically under control, BALDWIN HighLiner units use special detectors for measuring the pH value and the electrical conductivity (Optional).

The use of the 2-propanol concentration in the fountain solution can be monitored by the HighLiner display with membrane keyboard and changed if necessary. pH value and conductivity are indicated on a separate display as well as on the HighLiner display.

The digital display with membrane keyboard combines various input and control functions: Setting the data for temperature and metering, request of setpoint/actual value data, indication of absolute quantities consumed (2-propanol, fountain solution additive, water), service functions etc..

Optional the control of the HighLiner units can be connected to the central control console of the printing press.

With regard to the dissipation of heat, the BALDWIN HighLiner offer several possibilities. The heat may be dissipated via condenser systems with a possible connection to exhaust air ducts or water-to-air coolers. For this purpose BALDWIN offers optional water-cooled systems such as the RW 30, RW 50 and/or RW 100 types as required. On certain conditions thermal utilization of the waste heat is possible.

The use of optional return flow filters F 40/60/90 P (P = pump unit), filter stations or injector re-circulating unit IRE 40 / 60 / 90 / 140 with pump units in the fountain solution return flow lines, is especially recommended in cases of unusual site conditions (e.g. when HighLiner is located a longer distance away from the press or if the fountain solution is heavily contaminated).

### Conclusive concept – solid advantages

The BALDWIN HighLiner provide a valuable contribution to a standardised, economical and high-quality offset production. With this investment, printers will realize advantages in operating costs and therefore achieve a rapid return on investment.

*IpaSonic with  
pH value and  
conductivity  
indication*



*Return flow filter  
F 60 P*



*Glycol cooler RW 50*

# Worldwide Sales and Service Units

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