

# CombiLiner™ and CombiLiner™ -Efficiency



## Low-energy fountain solution mixing with integrated temperature control of the ink roller cooling water



The CombiLiner™ series combines mixing, circulating, cooling and control of the offset fountain solution with circulating and temperature control of the ink roller cooling water. IpaSonic and AutoMix – the high-precision measuring and metering techniques proven over many years and embedded in all CombiLiner™ products – provide the optimum composition of the fountain solution for the printing process.

Highly efficient filtration systems (available as option) significantly increase the fountain solution's lifetime, leading to a substantial reduction in the press' life cycle costs.

At an ambient temperature below 20°C (68°F), the new CombiLiner™-Efficiency allows the ink rollers to be cooled entirely through the connected free cooling system. Above 20°C ambient temperature, the mechanical refrigerating unit of the CombiLiner™ automatically cuts in for cooling the ink rollers. This generates potential energy savings of up to 40 % during continuous operation of the system.

### Advantages

#### Practical

- Constant temperature within the print shop due to water-cooling
- User-friendly
- Maintenance- and service-friendly
- Suitable for waterless offset

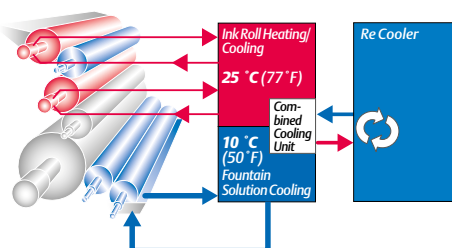
#### Economical

- Reduced disposal cost thanks to modern filtration technology
- Less fountain solution consumption due to high-precision metering (+/- 0.1%)

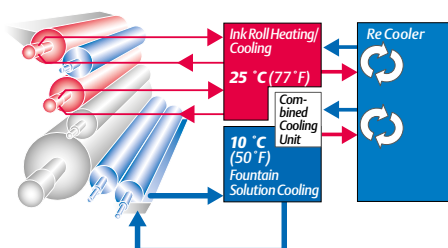
#### Ecological

- Up to 40 % energy savings by free-cooling (summer/winter operation)
- Additional savings by reduction of condensation temperature
- Suitable for waste heat recovery
- Environmentally friendly refrigerant

**Circuit at ambient temperature above 20°C (68°F)**



**Circuit at ambient temperature below 20°C (68°F)**



## **CombiLiner™ and CombiLiner™-Efficiency**

### **System Enhancements**

Reduction of condensation temperature results in savings of refrigerating capacity of up to 30%.

Additional components for an energy-efficient application of the CombiLiners are frequency-controlled pump cabinets and re-coolers.

With these components, the waste heat disposal of water-cooled systems (air supply cabinet, dryer) may be matched optimally to actual capacity requirements- energy costs are thereby reduced substantially.



Cooling unit

### **Service Solutions**

- Consulting service on optimal heat disposal
- Equipment installation and training of pressroom staff
- Service and maintenance contracts

### **Options**

- Air-cooled system
- Fountain solution filters:
  - Filtration "Primary"
  - Filtration "Performance"
- Measuring sensors for monitoring fountain solution quality (pH value, conductivity)

### **Similar products**

- BasicLiner™
- DailyLiner™
- Re-cooling systems
- Pump cabinets

#### **Contact us for:**

- Professional advice and support
- Further product information
- Return on investment calculation (ROI)



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