ACM

Cold UV system

System-Features

- arc length 100mm – 2600mm
- high UV intensity
- significant IR reduction
- power up to 240 W/cm
- continuously variable power control available, 20% - 100%
- all standard and many special spectra

Advantages

- low substrate temperature
- a great variety of materials can be printed
- high register accuracy
- productivity increase
- reduced energy expenditure
- easy integration
- low cost of maintenance

Cold UV system

The cold UV radiation system was developed especially for use in **temperature-sensitive production processes** such as printing mono films or shrink sleeves. The Advanced Cold Mirror Technology **ACM** makes it possible to filter out a large portion of the interfering infrared radiation. The ACM system has an integrated cold mirror. Its geometry and coating considerably lower the proportion of IR radiation, which is directed toward the substrate. If you compare UV dryers that have an ACM system to direct radiating UV systems, the IR radiation with ACM systems is reduced by up to 85%.

Depending on the material, this means that the substrate temperature can be lowered by up to 65%.
The high UV intensity, which is equivalent to a direct radiating device, makes it possible to reach high production speeds at the same time.

Technology Comparison
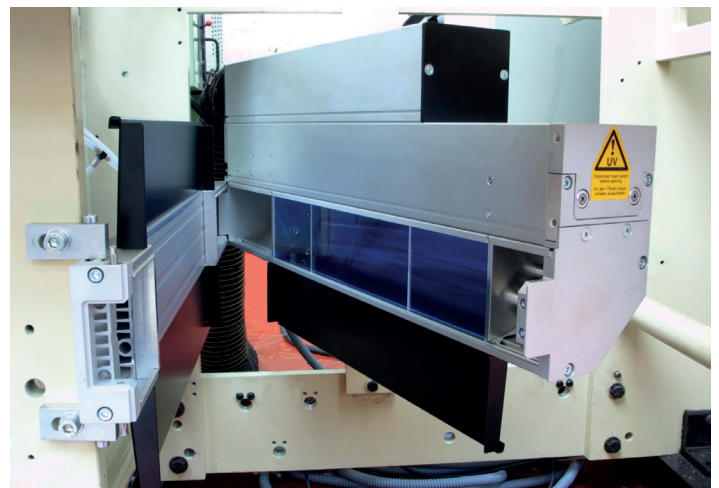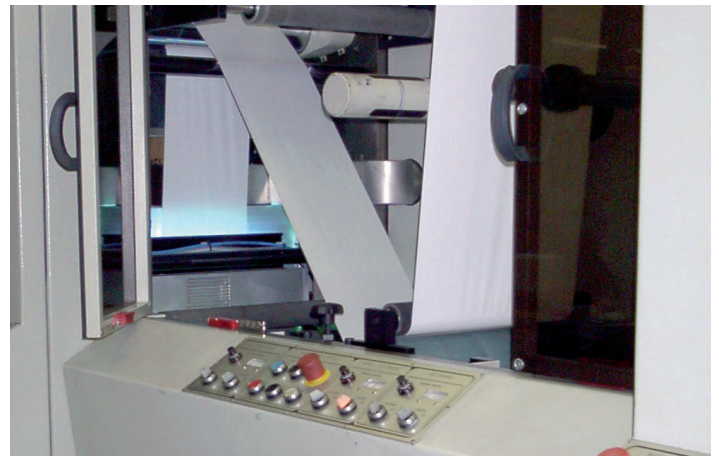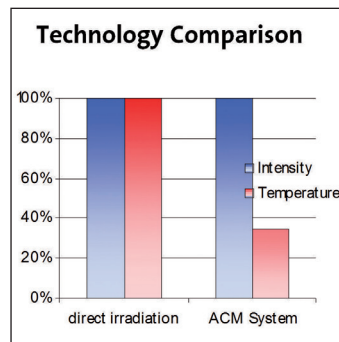
Cost reduction

The efficiency of ACM is based on its high intensity in the focus of the reflector-mirror combination. This high intensity focus leads to a considerable reduction of manufacturing costs, also campared to many direct irradiating UV units. Additional investments in the production facility such as **water-cooled chill drum or cooling plates are unnecessary**. For printing mono films or shrink sleeves, the ACM can be equipped with an **air-cooled chill drum** for extremely temperature sensitive materials.

Configuration features

- can be operated with up to 17 kW of power without additional water cooling of the reflectors
- shutter system
- individual arc lengths matched to the specific application
- air or air/water cooling

Head Office

DIN EN ISO 9001
DIN EN ISO 14001