

UV TECHNOLOGY FOR INTERDECK CURING

„NON-STOP“ WASH

Recent advances in IST UV interdeck design along with improved measuring techniques have now made it much easier for press manufacturers to get safety approval for leaving interdecks at stand-by during blanket washing.

The saving in downtime during a typical blanket wash is up to 75 % compared to the previous arrangement where interdeck lamps had to be turned off prior to blanket washing. Typical productivity gains conservatively stand at around 100 hours per annum for a

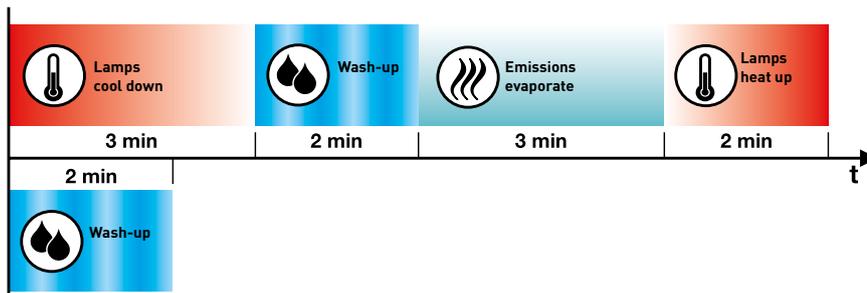
two-shift operation. Additionally lamp life is extended due the much reduced number of start-ups.

SAFETY APPROVAL CRITERIA

APPROVALS ARE GRANTED BASED ON KNOWN PARAMETERS, FOR EXAMPLE:

- Press type
- UV Manufacturer and a specific design
- Specific type of blanket washer
- Qualified blanket wash solvents

TIME-SAVINGS AT WASH-UPS – EXEMPLARY CALCULATION FOR A 2-SHIFT OPERATION



Basic conditions:

2-shift operation: 16 hours/day = 80 hours/week = 4000 hours/year
 Net production time: 60% = 2400 hour/year
 1 blanket wash every 3 hour = 800 wash cycles/year

Conventional operation (lamps have to be turned off):

Time need for 800 wash cycles: ~ 130 hours

IST “Non-Stop” wash UV interdecks (lamps in stand-by mode during wash-up):

Time need for 800 wash cycles: ~ 30 hours

Time saving:

~ 100 hours/year

FURTHER FEATURES AND BENEFITS:

URS® REFLECTORS – LOW HEAT WITH HIGH UV EFFICIENCY

This latest design of low heat transfer reflectors from IST Metz is now incorporated as standard on all inter-deck UV units fitted to various presses. Based on the same principles as the CMK reflectors this new design is able to deliver more UV energy to the substrate to improve curing rates. This has been achieved by adding and improving the reflective coatings combined with new optimised reflector geometry.

COOLING SYSTEM

Water-cooling of the shutters and reflectors ensures that excess heat is efficiently carried out of the press. Also, the integrated air-cooling provides for optimized output of the UV lamp as well as removing small traces of ozone.

STEPLESS POWER CONTROL OF UV LAMP OUTPUT

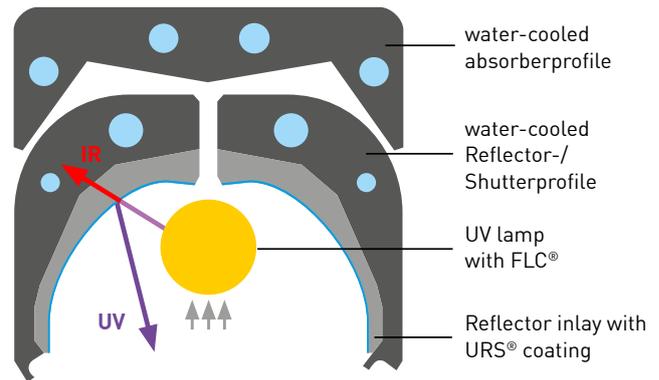
In relation to the speed of the press, the SLC-control can vary the lamp output infinitely between 40 and 100%. In stand-by operation, the UV lamp output is reduced automatically and can remain in stand-by mode indefinitely.

FLEXIBLE INTERCHANGE OF UV INTERDECK UNITS

When required, the UV interdeck units can be moved to different positions. A mechanical preparation of the respective printing station ensures easy movability.

OPERATOR FRIENDLY CONTROL SYSTEM UCS

Complete operation of the UV unit is managed by the UCS control terminal, which is installed adjacent to the control desk of the press.



URS® Reflector technology

WE HAVE THE CURE

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