



UNIT 48A, MEGA PARK, PETER BARLOW RD, BELLVILLE SOUTH

Re – Cool UV Super cure system supplied by Litho sales and label (04/05/23)

To whom it may concern,

We purchased a 6 colour Cool UV system via Litho sales in September 2021. The bracket system was designed ex works Cool UV to fit our current flexo press chill drums. All I supplied was a 3D flexo press drawing. Cool UV machined and supplied the UV LED insert bracket which when fitted locally went pretty smoothly. So did the rest of the installation. Also supplied was a slide in outer cartridge bracket that acts as a housing for the LED UV lamp head when inserted into our conventional UV casing. This allows us to toggle between conventional UV and UV LED on the last print station. Prior to this installation we mostly printed water based inks with our only real experience of UV inks being the use of our sixth station “conventional UV arc” system. Using the LED units has been far easier than anticipated especially coming from a water based background. If you are currently a UV flexo converter and move to UV LED your change over process should be pretty seamless just with the added benefits of UV led. Although we only use the UV led for specialised projects and still make use of water based ink technology we have had no issues with the Cool UV led to date. We have had past experience with Chinese suppliers but one of the few things that stood out with Cool UV (besides being a good product) is that they actually have a very comprehensive well written user and safety manual...probably the best I've seen out of the east. Other things that stand out about the Cool UV unit is the dome lens they use which focuses the LED light source in a concentrated area rather than lighting up the whole press shop. Other LED units I investigated were bulkier and made use of wider LED window widths to try and create more radiation dwell time at the expense of lost cure light. We have found the narrow lens on the cool UV system focuses the LED radiation well enough for good cure performance. HMI programming/input on the cool UV system is very easy and it also allows you to access the factory settings which is important if you need to tweak a few things. For us as a small converter it's important to keep costs down so it's important to have as much control as possible over the units HMI functions and beyond which this system allows. The cool UV system has a plug and play parts replacement feature as well so circuit boards ETC can be changed in house saving costs and time without having to loosen wires etc. The most maintenance is a bit of cleaning and replacing the chiller water every so often. To date we have not had to replace any LED sections. If the units are not abused and kept in good operational order I have no doubt this LED system will provide plenty hours of use and a good ROI.

Other features which we enjoy with these Cool UV units are

- The ability to switch off segmented side LED's if not needed on narrow web widths
- Quick on/off with no warm up time or cool down time especially if you have time constraints due to load shedding
- No noisy UV exhaust fans and ozone removal that's comes with conventional UV
- The temperature of the UV LED lamps runs a lot cooler than conventional UV systems

Regards Richard Kelly (Owner Labeltime)