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ALL IN ONE

One unit for environmental control in digital print rooms thanks to Humidity Solutons.

Specifically designed by Humidity Solutions to provide environmental control for digital print rooms, the new Eiger unit provides temperature and humidity control plus air filtration, air movement and fresh air from a single unit. As such, it enables temperature and humidity to be maintained at the optimum conditions for digital printers to ensure that the room is kept in the 'quality' zone for optimum machine speeds and ensuring print quality.

With the modern digital printer achieving faster and faster speeds it is essential that the machine be kept within the manufacturers recommended climatic conditions to maximise the investment.

CHALLENGE

'Effective humidity control is essential for all forms of printing and can be a particular challenge for digital print rooms,' observed Humidity Solutions sales director John Barker. 'Humidity levels are naturally low at certain parts of the year but because of the heat output of digital printers many companies install an air conditioner for cooling, which dries the air even more so increasing the iss-ues of low humidity unless it is properly managed. To add a humidifier improves greatly the humidity control within the studio but temperature and humidity are so closely linked that a solution where the components are controlled together provides the best and most efficient solution.

'Rather than sourcing separate systems from different suppliers, the Eiger unit allows printers to protect their investment in digital print with one unit from a single, specialist supplier that understands the print industry. We believe this is the only unit of its kind in the market.'

CONTROL

Temperature and humidity levels can be altered easily on the Eiger's controller to suit the machine and operator but then self regulates keeping the room within tolerance.

The UK manufactured Eiger unit is designed to provide humidity control, cooling and heating in typical digital print rooms of around 100 m^3. It is installed in the room against an external wall, with a connection through the wall to an outdoor condenser. Mounted on castors for easy siting, its compact size allows access through standard doorways, whilst the use of flexible connections supports fast and simple installation.

Humidity Solutions offers a full turnkey solution from free site survey, design, supply, installation and on-going maintenance – total peace of mind to allow the printer to get on with what they are good at, which is producing quality product at efficient speeds.

It may be assumed that this is a expensive solution – however with the reduced costs of installing one piece of equipment over two or three, the capital cost is comparable to installing standalone air conditioning, humidifier and fresh air inlet but has the advantages of being integrated into one unit with one controller synchronising these elements which combine to provide the optimum environment to achieve your quality zone within the digital print room.

Another advantage is that the delivery of the conditioned controlled air from the Eiger is even and consistent around the machine. With individual pieces of equipment temperature, humidity or the delivery of fresh air may not be even throughout the production area resulting ineffective control and additional energy use.

Humidity Solutions has many years' experience of providing solutions for the print industry including the Airtec high pressure water system for larger production facilities such as litho, gravure and web printers controlling humidity but also reducing temperature by utilising low energy adiabatic cooling from the spray nozzles. Simple steam humidifiers provide low capital cost easy to install wall mounted control typically for label, digital and screen printers.

The company provides the widest range of humidity control equipment and provides free site surveys, quotations and technical advice.

www.humiditysolutions.co.uk PS