

# Inteliair

## The Intelligent Air Control System



Welcome to the first Inteliair™ newsletter. Through this newsletter we are planning to bring you case studies, news and events, and information on how Inteliair™ will work for you and for your customers. If you would like to ask any questions or submit any news and case studies please let us know.

### NEWS:

We are pleased to let you know that we will be showing Inteliair™ at the W14 show, one of the UK's largest trade exhibitions. Covering three large halls at the NEC in Birmingham. We will have a working installation of the Inteliair™ the intelligent air control



## THE JOINERY & FURNITURE MANUFACTURING SHOW 2014

5-8 OCTOBER NEC, BIRMINGHAM

system on our stand, so even if your industry is not woodworking come along as we can show you the benefits of the system for your industry. We will have engineers on hand to answer any questions at stand **6C442**.

### The Inteliair™ training centre is open!

We are keen to help our customers and installers to get the most from the Inteliair™ system and have now opened the doors to our training centre. Under the careful and capable guidance of Alex you will be shown how to install the system, how to configure the software and how to optimize the performance. This training is offered in Frome throughout the life span of the equipment so if you have a change of staff or bring in new technicians we can get them up to speed. We can also tailor our training to suit installers or end user customers and give product demonstrations here.



### Meet your contacts



Sarah Turner



Alex Barker

Sarah is your main contact for sales and distribution, any questions call her on +44 (0)7764 967 985 or email [sarah@inteliair.co.uk](mailto:sarah@inteliair.co.uk) if your question is regarding installation or technical advice she will pass you to Alex.

### What is Inteliair™?

Inteliair™ is an intelligent 'on demand' control system for dust and fume extraction installations. Responding to an electrical signal from an operator or a machine the Inteliair™ Main Control Unit will open and close dampers depending on need and automatically adjust the fan speed to meet with that need. Its PLC controller will ensure minimum and maximum velocities within the ducting are maintained. Simple to operate and simple to install the wireless interface can be used to give important management information to the customer regarding energy consumption. Most of our customers are experiencing a reduction of at least 40% on their energy bills for their extraction equipment following installation.



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## Case study—Bath Spa University, Theatre Production School

When asked by Bath Spa University to design a new dust extraction system to serve their Theatre Production School we were presented with the common dilemma of trying to integrate a system capable of extracting at medium pressure through small diameter hoses serving hand tools with a system designed to extract at low pressure from floor standing woodworking equipment.



Installation showing the Inteliair™ controlled dampers

The Inteliair™ intelligent control system came to our rescue, through its ability to automatically close off positions not in use combined with its capability of zoning areas we have been able to configure a system incorporating a dust filtration unit with integral low pressure (-2.5kPa) fan capable of extracting from the floor standing machines with a medium pressure (-9kPa) fan configured in a Zone to serve the hand tool extract points. The medium pressure fan exhausts into the main duct connecting to the dust filtration unit, the medium pressure fan and the dust filtration unit are both configured to operate at a speed dependent upon demand.

The net result is we have been able to design and install a dust filtration system capable of serving both low and medium pressure extraction points through one filter unit with the main motor speeds varying in response to demand and as such not only has the Inteliair™ system enabled us to reduce the capital cost of serving this application but also significantly reduces our customers running costs.

### A selection of Inteliair™ customers

- Dyson
- Dunlop
- Rolls Royce
- Forestry Commission
- Ocado
- TS Tech Co Ltd
- British Geological Survey
- Integrity Print
- Blatchfords Clinical Services
- Charltons
- TRP
- Integrity Print
- Bath Spa University

### Some industry sectors with Inteliair™ Installed

- |                              |                       |
|------------------------------|-----------------------|
| Agriculture /food production | Metals                |
| Automotive                   | Pharmaceutical        |
| Carpentry shops              | Plastic and Rubber    |
| Chemical / laboratories      | Printers              |
| School/colleges/universities | Waste and Recycling   |
| Electronics                  | Welding               |
| Foundries                    | Woodworking/Furniture |

If you want to know more about including this system on new and existing extraction installations and about saving money while improving your environmental impact then contact us today :

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