

Case Study

For Your Perfect Indoor Climate



Key Benefits

- ✓ Comfortable, virtually draught-free cooling, heating, & air purification in one system.
- ✓ Air purification creates superior indoor air quality by deactivating serious pollutants – bacteria, viruses, allergens & VOCs.
- ✓ Improves workplace satisfaction & productivity.

Creating a Comfortable & Clean Office Climate

The problem: Cardiff based designer and manufacturer of office equipment, Orangebox Ltd, understood the impact a poor working environment has on productivity: They had experienced reduced capacity caused by air conditioning draughts, uncomfortable hot and cold spots and uneven temperatures in their old building. When they moved to brand new 2500m² premises -complete with an open plan office, meeting rooms, light manufacturing areas and a canteen - they relished the opportunity to create a comfortable working environment.

The solution: Local Ingenious Air Approved Installer, Celtic Cooling & Heating Ltd, installed 26 Ingenious Air Small Duct Systems, each paired with a Mitsubishi 20kW inverter heat pump and the high specification air purification module. Thirteen systems were installed in the office, board room and meeting rooms.

The Ingenious Air systems deliver sustainable, virtually draught-free cooling and heating throughout the building. They also remove more moisture from the air than ordinary systems. This de-humidification enabled Orangebox to achieve comfortable conditions for both men and women during the summer by running the system at a constant, energy saving, 24.5°C in cooling mode. Employees feel comfortable and arguments over temperature control are reduced. This huge benefit made the project a FINALIST for 'Industrial Project of the Year' at the RAC Cooling Industry Awards 2015.

The superior air purification module cleans the air and removes disease-causing bacteria, viruses, allergens and toxic chemicals. The working environment is cleaner and healthier. Employees are at reduced risk of taking sick days for colds, flus and other airborne contagious illnesses.

The Ingenious Air systems deliver the treated air via a mix of discreet, bespoke ceiling outlets and drilled outlets in black, pre-insulated, lightweight duct work. The ceiling outlets free up wall space and blend in perfectly with the white finished ceilings in the office areas, while the drilled outlets offer an easy to design and install, industrial look around the periphery of the office space.

Follow up: Orangebox are happy with their comfortable and productive working environment. Their premises are virtually draught-free, with even temperatures from floor to ceiling and wall to wall. Air purification has created a clean and healthy working environment, which will improve productivity levels and reduce absentee rates due to illness.

Mr. Alan Ashcroft, Production Engineering Manager, Orangebox Ltd: "We are extremely happy with all aspects of the equipment selection and installation. Everyone is comfortable."



The Ingenious Air Small Duct System - WINNER of UK 'Air Conditioning Product of the Year' RAC Industry Cooling Awards 2015

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