

# The Unico System

Small Duct Heating, Cooling and Ventilation



July 2016

## Case Study - Ambulance Control Centre, Lewes



## Background

In an ambulance control center with over 60 staff and 100 computer screens, the need for individual comfort is paramount. The indoor air quality and climate control are essential to the performance of staff providing such a valuable service.

Quantum Group were tasked with providing a solution to create such an environment. The proposed system would need to supply the correct level of ventilation along with heating and cooling as energy efficient and cost effective as possible.

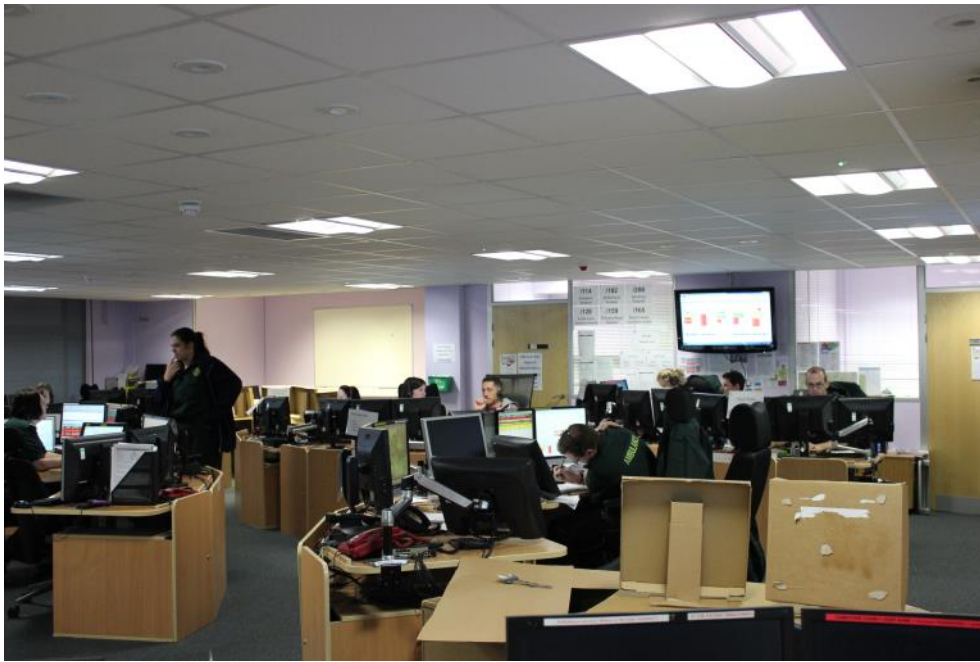


Discreet Air Comfort...

## Heating, Cooling & Ventilation all through one system

*"I am very happy with how comfortable the staff are in this highly pressured environment of Emergency Services. The air supply outlets have been cleverly positioned In-between desks to avoid causing drafts"*

*Andrew Hanney,  
Head of Estates*



Clusters of round outlets deliver air in-between desks.

## Solution

Quantum Group chose three Unico Systems integrated with Mitsubishi Electric heat pumps and Heat Recovery Lossnay units to provide a complete HVAC solution. Due to the flexibility of the Unico System, air supply outlets were positioned in clusters in-between desks to avoid any uncomfortable drafts.

Climate control and ventilation were delivered through the same acoustically lined duct, avoiding the need for two separate systems.

The fully automated control system allowed the Unico EC motor to increase the airflow when actively heating or cooling and slow down to match the fresh air requirement when the ideal room temperature had been reached.

## Benefits

- Even temperatures across the rooms
- NR20 Sound Level Rating. Very quiet
- Zone control options
- Discrete supply outlets
- Flexible design and installation
- EC Variable Speed Control

## Summary

Installation Date:

**June 2012**

Contractor:

**AC Mechanical**

Unico System:

**3 x 14kW with DX coil**

**3 x Mitsubishi Lossnay**

**Heat Recovery Units**

Energy Source:

**3 x Mitsubishi Heat Pumps**

Controls:

**3 x Mitsubishi PAR-31**

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