



Tel: 021 483 4330
Web: www.eirdata.ie
Offices: Dublin, Limerick, Cork

*Specialists in Cleanroom Validation, Commissioning & Compliance,
HVAC systems, Indoor Air Quality & Building Wellness.*

Covid19 Infection Control Solutions

April 2020



Infection Control Project – Case Study

Eirdata were approached by one of our hospitals to assist them come up with solutions for a number of infection control challenges with respect to the Covid19 crisis.

- Convert an existing positive pressurized operating theatre into a negative pressurized operating theatre with the ability to be changed between negative and positive at any stage.
- Review of the Day Services Unit regards infection control.
- Review several Procedure Rooms regards infection control
- Review the Maternity Unit regards infection control

The challenge was to find & implement innovate solutions in restricted timelines in a busy hospital environment, ensuring Infection Control for the hospital in the current Covid19 crisis.



Working with the Client & our Specialist Suppliers

With input from the client, reviewing HSE guidance for Covid19 and taking baseline readings for the hospital areas involved, Eirdata developed and delivered these solutions:


1. Designed an Innovative solution for Theatre One reversible with the flick of a switch.
2. Full specialist re-balance plus increasing ACPH of the Day Services Unit
3. Full specialist re-balance plus increasing ACPH of each Procedure Room.
4. Full specialist re-balance plus increasing ACPH of the Maternity Unit.

Eirdata was conscious that Theatre One, The Day Services Unit, The Procedure Rooms & Maternity Unit would serve patients with Covid19, so speed was of the essence while continuing to meet the Theatre's cleanliness classification and providing the rest of the Hospital with Infection Control. All client specifications were met.

Brief sequence of events

- ✓ Walked down areas with client.
- ✓ Fingerprinting: Measured airflows and pressures as a baseline for design.
- ✓ Designed a new extract unit using EC speed controllable Fan with Hepa filtration to be installed meeting all the required airflows for Theatre One.
- ✓ Once approval from the Hospital completed all necessary fabrication works off site.
- ✓ Installed, Balanced & Commissioned the new system, (Fan, Hepa Filter, Ducting etc.)
- ✓ Carried out all specialist rebalancing of the various areas during fabrication time.
- ✓ Timeline from initial consultation to full completion of works for three solutions 7 days.
- ✓ Full report and documentation provided.



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