

# Industrial Case Study

## Bournemouth Pathology Lab

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## We're Attentive & Focused Expert Technical for Bournemouth Pathology Lab

SDDS worked to support the cutting-edge facility at Royal Bournemouth Hospital. This new schedule of works was an exciting and significant project for Axair to be involved in and showcases the quality and value of the polypropylene fume extraction fans that the company supply. Completed in the Spring of 2023 and fully commissioned by Summer of the same year, the project which started over five years ago included a specialist diagnostic hub which would be used to study and diagnose disease and illnesses using the latest in medical technology to analyse anything from simple blood tests to more advanced genetic testing.

During the lifetime of the project, the five-page fan schedules changed according to building updates, consultant amendments and legislation. Axair worked closely with the awarded contractor J&B Hopkins to deliver a suitable specification in line with the required airflow and pressure duties of each plantroom application. Applications included ventilated specimen stores, down draught tables, ventilated cut up rooms, microbiological safety cabinets and autoclave in addition to multiple laboratories and processing rooms. Duty and standby fans were chosen with inverters for additional control and to reduce overall fume extraction system energy consumption by slowing down fans when required and allowing a more efficient start up on larger fans such as the S35.

The most impressive outcome of this project was that although Axair were awarded with the industrial fan order, they were not originally named on the specification. Due to the tenacious, technical ability of our Industrial team, who are trained to fine tooth comb through specifications, they quickly identified any errors or discrepancies in the fan selections given on the schedule based on the given duties, and made the necessary comments back to the consultants for checking. They showed a higher degree of precision, technical ability, and overall customer care to ensure the fume extraction systems would perform as efficiently and at their optimal performance. Ultimately securing the order with the confidence of both the consultant and M&E contractors.



Bournemouth Pathology Lab Render

Snippet of the extensive fan schedule  
Important: Axair were not originally specified

13.02 FAN SCHEDULE							
Ref.	Location	System	Flow Rate m³/s	Static Pressure Pa	Selection	Motor kW	Remarks
EF201	Plantroom	Dirty extract, Ventilated Specimen Table, Within room 70.100 Histopathology Processing	0.208	600 TBC	CMVeco180	0.75	Duty & Standby with EF202
EF202	Plantroom	Dirty extract, Ventilated Specimen Table, Within room 70.100 Histopathology Processing	0.208	600 TBC	CMVeco180	0.75	Duty & Standby with EF201
EF203	Plantroom	Dirty extract, Ventilated Specimen Table, Within room 70.100 Histopathology Processing	0.208	600 TBC	CMVeco180	0.75	Duty & Standby with EF204
EF204	Plantroom	Dirty extract, Ventilated Specimen Table, Within room 70.100 Histopathology Processing	0.208	600 TBC	CMVeco180	0.75	Duty & Standby with EF203
EF205	Plantroom	Dirty extract, Ventilated Specimen Table, Within room 70.129 Cat 2 Lab	0.208	600 TBC	CMVeco180	0.75	Duty & Standby with EF206



### Works Overview:

The works comprise the new build ground floor of laboratories, first floor of laboratories and offices and second floor of plant rooms with a roof over the plant room and lobbies. The works will also comprise an outbuilding containing services and storage as well as external works such as new access road, parking area, soft landscaping, and some hard landscaping. The M&E works will be extensive including the installation of a pneumatic valve, ventilation ducts, electrical cabling and drainage within floor trenches.

“ The Axair team showed a higher degree of precision, technical ability, and overall customer care than our competitors.”



## Contact Us

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*Whatever your issue, concern or question, contact our OEM team using the below contact details. Alternatively, visit our website and open a live chat to start discussions.*

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