

# HVAC Solution Specialists



A Guide to our Solutions and Services

The power behind **your mission**

## **Our Mission:**

To excel in the provision of efficient and effective HVAC Solutions for our clients.





# Airflow Services: A key part of the Johnson Controls family

Airflow Services Ltd was established in 1996 and expanded their operations year-on-year until, in November 2021, the company was acquired by Johnson Controls Ireland in order to provide the business with a high-quality service to the Heating, Ventilation and Air-Conditioning (HVAC) market in Ireland.

The company has grown from strength to strength since its integration into the Johnson Controls group and benefits from a wealth of experience not only within the HVAC sector, but also now with related technologies such as security, fire detection, fire suppression, and building management systems.

Operating from our base in Little Island, Co Cork, we continue to provide sustainable, efficient and cost-effective solutions to our customers.

The Airflow Services team is focused on meeting customer demands through the continued development and education of our workforce.

We are part of an industry-leading business that is proud to have a highly qualified, experienced and specialised team of engineers and technicians who strive to maximise efficient customer service, whilst designing, installing, commissioning, and servicing unrivalled state-of-the-art HVAC solutions.

Many of our employees have been with us for a long time and this is testament to the value the company puts on its staff. Now that we are part of the Johnson Controls family the team continues to grow stronger and the ethos of the value of its employees continues.

# Our Values



## Safety

The safety of our staff and our clients form an integral part of our daily operations from conception to completion of projects.

## Quality

We endeavour to provide the highest quality products and services to our customers.

## Value for Money

We believe in providing Value for Money solutions. This ensures long term and successful partnerships with our clients.

## Employees / Our Team

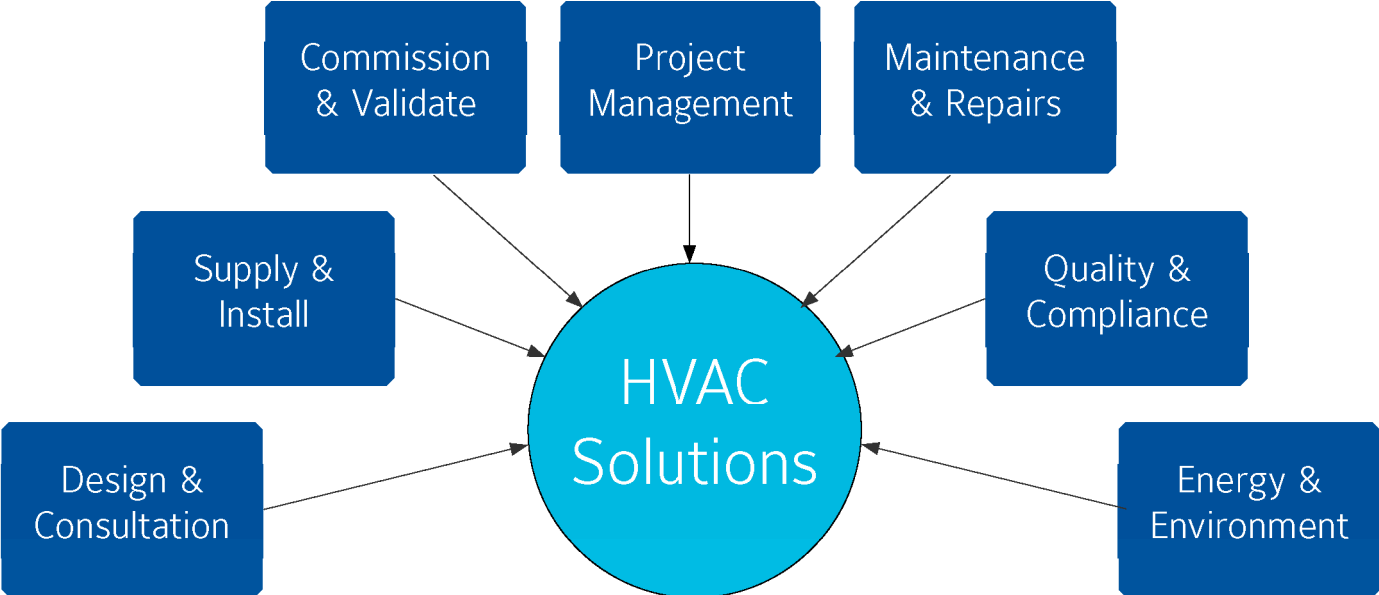
We put enormous value on our employees. They are our most important investment which results in quality services and low staff turnover, promoting the development of trusting and long term business relationships with our clients.

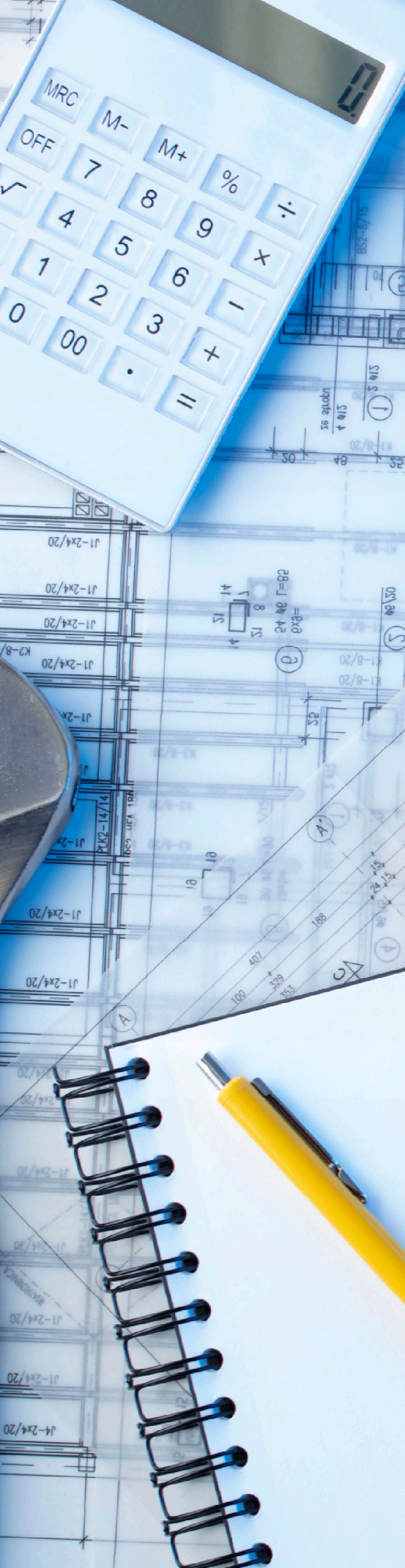


# Our Services



We provide a suite of services to ensure that our valued customers have a comprehensive offering in terms of their HVAC requirements.





# HVAC System Design

With a team of qualified building services engineers and over 20 years of experience across all sectors of the Heating, Ventilation and Air Conditioning (HVAC) industry, we are ideally set-up to deliver comprehensive and well thought out designs.

Our solutions are built upon state-of-the-art technologies, energy efficiency and best practices which incorporate our knowledge and experience of installation, commissioning and servicing.

We have experience in the design of a wide range of systems including:

- Commercial Heating, Cooling and Ventilation
- Close Control AC Systems
- Cleanroom HVAC Systems
- Dust Extraction Systems
- Process Ventilation and Cooling Systems
- Computer Room Air Conditioning (CRAC)
- Residential Heating and Ventilation
- Renewable Energy Systems

Designs and specifications are referenced to leading industry standards such as:

- Chartered Institute of Building Services Engineers Codes (CIBSE), Guides, Briefs and Technical Memorandums
- National Building Regulations
- Sustainable Energy Authority of Ireland (SEAI) reports and publications
- The British Standards Institute
- Accredited Software Tools

# HVAC Equipment Supply & Install

The Airflow Services team within Johnson Controls provide a complete solution for Heating Ventilation and Air Conditioning (HVAC) systems.

We have a dedicated team of qualified engineers whose focus is on the delivery of efficient service, quality workmanship and customer satisfaction. Our products are of a very high quality and customers can be guaranteed an excellent after sales service.

The range of equipment available includes:

- Split System Air Conditioning
- Multi System Air Conditioning
- Chillers and DX Coolers
- Heat Recovery Ventilation Systems
- Air Handling Units
- Evaporative Cooling Systems
- Fan Coil Units
- Heat Pumps and Solar Systems
- Underfloor Heating
- Controls

Equipment is available across a wide range of sizes and specifications to cater for all sectors from domestic to commercial to pharmaceutical. We can design and specify a system tailored to meet your requirements.





# HVAC System Commissioning

Commissioning of HVAC plant and equipment has never been more important than it is today given the focus on energy efficiency in buildings.

Commissioning is a vital step in ensuring that installed plant operates as intended to ensure occupant comfort, energy efficiency and compliance with health and safety requirements.

Our team offers a professional, quality service in this specialised field, with a team of dedicated highly qualified commissioning experts.

Our commissioning services include:

- System Design Review
- System Installation Review
- Commissioning Consultancy
- Air and Water Systems Balancing
- Performance Surveys
- Trouble Shooting
- Fan and Pump Performance Testing
- Temperature and Humidity Testing
- Noise Level Testing
- Light Intensity Testing
- Comprehensive Documentation
- Commissioning Management

All work is conducted in accordance with relevant CIBSE and BSRIA codes and standards.

Instrumentation and equipment calibrated to high standard.



# HVAC System Revalidation

Clean rooms are designed to provide a controlled environment, prevent product contamination and protect operators. It is essential therefore that clean room performance is revalidated within set time periods to verify correct operation and where necessary make remedial adjustments.

Our revalidation engineers are certified by the Irish Clean Room Society, highly experienced and proficient to carry out revalidation procedures which include:

- Room Air Change Rates
- Room Pressure Regimes
- HEPA Filter integrity testing
- Particle Count Testing
- Room Recovery Testing
- Temperature and Humidity
- Noise and Light Measurements
- Containment Booth Testing
- Laminar Flow Booth Testing
- Fume Hood Testing

All work is conducted in accordance with in-house procedures and relevant codes and standards including ISO 14644 and IEST Guidelines.

Instrumentation and equipment calibrated to high standard (UKAS).





# HVAC System Maintenance

Regular maintenance of air conditioning systems is vital to ensure that optimum system performance is continually achieved.

Our team of maintenance engineers are committed to providing an efficient and thorough service which includes:

- Supply and Installation of all types of filters, belts, pulleys, bearings .
- Trouble shooting and faultfinding of all types of air conditioning plant.
- Comprehensive system inspection procedures
- Detailed maintenance documentation

We can source and fit replacement parts and components for any type of HVAC equipment.

Our services also include consultation, advice and implementation of preventative maintenance procedures, to ensure that:

- Unplanned breakdowns are minimised if not eliminated.
- Occupant comfort is maintained continuously
- System running costs are kept to a minimum
- Operating life of plant and equipment are prolonged

Additionally we can provide a call-out service to ensure that any system failures are repaired and up and running with minimum disruption.

# Energy & Performance Surveys

Our team is in a unique position in that we have experience and expertise across a wide range of HVAC systems from design right through to commissioning. This enables us to provide professional, practical, cost effective advice and services on energy efficiency and performance of Heating, Ventilation and Air Conditioning systems

Our services are applicable across a wide range of areas from domestic to commercial to pharmaceutical and include:

- HVAC Performance Surveys
- Building Energy Surveys
- Building Energy Monitoring
- Post Occupancy Evaluations
- Practical Cost Effective advice

Survey and Evaluation reports are referenced against leading industry standards such as:

- The Chartered Institute of Building Services Engineers (CIBSE) Codes, Guides, Briefs and Technical Memorandums
- National Building Regulations
- Sustainable Energy Authority of Ireland (SEAI) reports and publications
- The British Standards Institute
- Accredited Software Tools



# Proven Solutions



We are certified agents for the leading HVAC equipment manufacturers including:



# Case Study:

## Hotel Cork, Ireland



### Project Scope:

Full HVAC fit out of Mitsubishi HVRF air conditioning, heat pumps, ventilation ductwork, and air balancing.

### Completion Date:

October 2023

### Solution Features:

- System Design, Supply, Installation, Commissioning
- 205 indoor AC multi HVRF units
- Heat recovery ventilation systems
- Ductwork throughout the hotel
- Commissioning of air and water systems

More details of this project are available on request.

# Case Study:

## Clean Room Poland



### Project Scope:

Supply and installation of air handling units and associated DX condensers.

Full HVAC fit out of Daikin Multi air conditioning, heat pumps, ventilation ductwork, and air balancing.

Full BMS controls supply and install.

### Completion Date:

June 2023

### Solution Features:

- Design, Supply, Installation and commissioning
- 6 Air handling units and associated DX condensers
- 15 indoor AC multi VRF units
- 8 Heat recovery ventilation systems
- Ductwork throughout
- Full BMS
- Commissioning of air and water systems

More details of this project are available on request.

# Case Study:

## Medical Manufacturing Cork, Ireland



### Project Scope:

Supply, install and commission of Daikin VRF and split air conditioning and heat pumps.

### Completion Date:

September 2023

### Solution Features:

- Design, Supply, Installation and commissioning
- 132 indoor AC multi VRF units.
- Supply only 8 Heat recovery ventilation systems
- 5 Daikin heat pump systems

More details of this project are available on request.

# Case Study:

## Data Centre Dublin, Ireland



### Project Scope:

Install and commission of Mitsubishi VRF and split Air conditioning and install of Refrigerant pipework to battery rooms.

### Completion Date:

October 2021

### Solution Features:

- 24 split AC systems
- 3 Mitsubishi Multi systems to 32 indoor units.
- Refrigerant pipework for AHU's

More details of this project are available on request.



# Case Study:

## Pharmaceutical Cork, Ireland



### Project Scope:

Supply, install and commission of Daikin split Air conditioning systems to data rooms and comms rooms.

### Completion Date:

December 2022

### Solution Features:

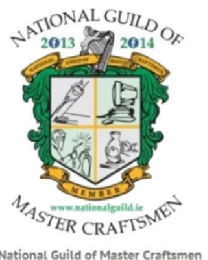
- Supply, Installation and commissioning
- 41 Daikin split Air conditioning systems

More details of this project are available on request.



# Accreditations and Attributes

- Regular Fully certified and compliant with F-gas regulations to permit handling of refrigerant gases
- Highly educated work force who can take a project from design through to hand-over
- ISO 9000 Accredited
- CTCB and CSA certified engineers
- Over 25 years experience in the HVAC Industry
- Over 200 years of combined HVAC experience in the company.
- Over 60 Years of Combined HVAC Training / Qualification





Provider of Heating, ventilation & air-conditioning solutions to the commercial, industrial and residential markets.

### Supply and installation of

- Air-conditioning split and multi systems
- Heat recovery ventilation
- Chillers
- Heat pumps
- Air handling units
- Evaporative cooling systems

### Maintenance of all types of HVAC equipment

- HVAC systems revalidation
- HVAC Commissioning
- Design of HVAC services
- Energy and performance surveys

### Contact the Johnson Controls Airflow Services team at:

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### About Johnson Controls

At Johnson Controls, we transform the environments where people live, work, learn and play. As the global leader in smart, healthy and sustainable buildings, our mission is to reimagine the performance of buildings to serve people, places and the planet.

Building on a proud history of nearly 140 years of innovation, we deliver the blueprint of the future for industries such as healthcare, schools, data centers, airports, stadiums, manufacturing and beyond through OpenBlue, our comprehensive digital offering.

Today, with a global team of 100,000 experts in more than 150 countries, Johnson Controls offers the world's largest portfolio of building technology and software as well as service solutions from some of the most trusted names in the industry.

Visit [www.johnsoncontrols.ie](http://www.johnsoncontrols.ie) for more and follow @Johnson Controls on social platforms.

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