

# BUILDING OPTIMISATION SOLUTIONS

In line with Daikin's global policy to provide **Green and Sustainable air-conditioning solutions** for building developers and owners, we are offering air-side optimisation solutions, to further improve energy efficiency while enhancing occupant well-being. These solutions can be integrated with our efficient equipment, water-side optimization and building control capabilities for a full building air-conditioning solution.

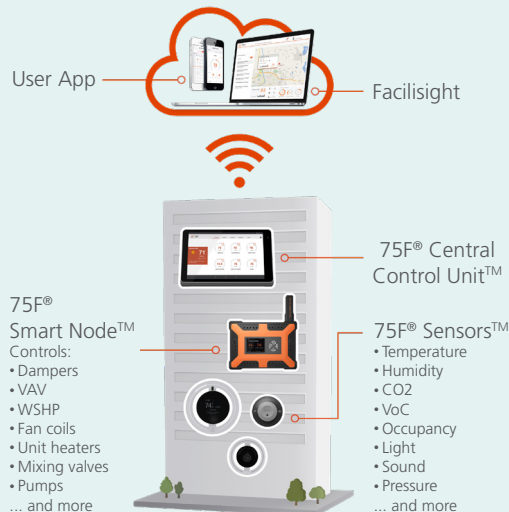
## DAIKIN'S AIR-CONDITIONING OPTIMISATION SOLUTIONS

### AIR-SIDE OPTIMISATION (GET™ Control)

### WATER-SIDE OPTIMISATION

**GET™ Control** is a self-learning building intelligence system that utilises Artificial Intelligence (A.I) and Internet of Things (IoT) to optimise and regulate air-conditioning in buildings, based on changes in occupancy and ambient weather conditions. This innovative system which can connect to any building management system, enhances occupant well-being and thermal comfort, while maximising energy and operational efficiency.

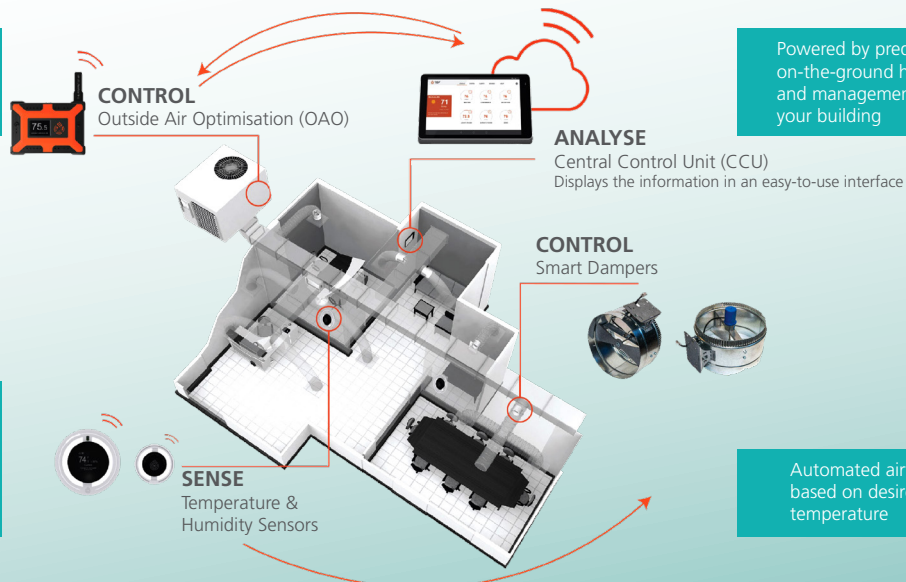
### WHAT IS GET™ CONTROL?



**GET™ Control** not only learns the behaviors of the buildings, it adapts and applies predictive AI controls, to the system for continuous & real time optimization of energy usage based on actual cooling needs of the spaces served. Utilisation of dynamic airflow balancing techniques, also reduces wastage and over-cooling.

## DYNAMIC AIRFLOW BALANCING

Smart nodes provide real-time integration of a range of equipment such as dampers, sensors, energy meters, lighting etc



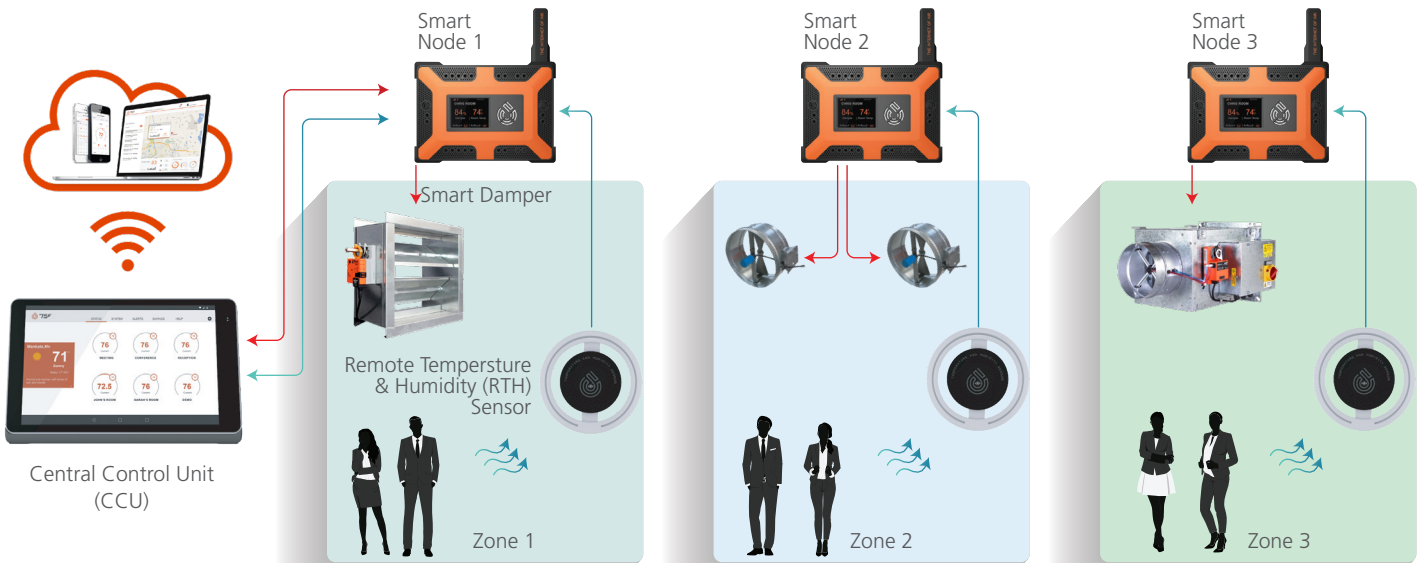
Powered by predictive algorithms, on-the-ground hub of information and management of all aspects of your building

Measures wide array of data including:  
• Temperature  
• Air Quality  
• Humidity  
• Lux levels  
• Occupancy and more...

Automated airflow modulation based on desired and current temperature

# BUILDING OPTIMISATION SOLUTIONS

HOW GET™ CONTROL WORKS IN INDOOR OFFICE SPACES



GET Control is scalable according to the situation on-site, by using equipment with different functionalities.

Smart sensors are deployed throughout the spaces and zones in the building to capture real time space conditions, sending them to the Smart Nodes for each zone.



Smart Nodes wirelessly transmit these data to Central Control Units (CCU) for analysis via intelligent algorithms at Cloud level.



The algorithms determine the right command for each zone and closes the loop by sending these commands to the Smart Nodes.



Smart Nodes modulates the Smart Dampers deployed on site to deliver the correct amount of airflow needed.

WITH GET™ CONTROL, WE HELP OUR CUSTOMERS TO ACHIEVE:



Potential cooling **energy savings of up to 30%**



**Improved occupant experience and comfort** via localised, pro-active zone controls to meet the customised cooling needs consistently



**Improved operational efficiency with less dependence** on human intervention for continuous fine-tuning, balancing needed for ensuring comfort conditions at all times.



**Remote visibility and control of zones and equipment** to meet cooling needs of all occupants at all times and at any time.

## APPLICATION



Green Buildings, mainly offices with emphasis on smart technologies, occupancy comfort etc.



Buildings targeting for premium Green Mark certification or Super Low Energy with clear focus on achieving industry leading energy efficiency targets for total air-conditioning system.