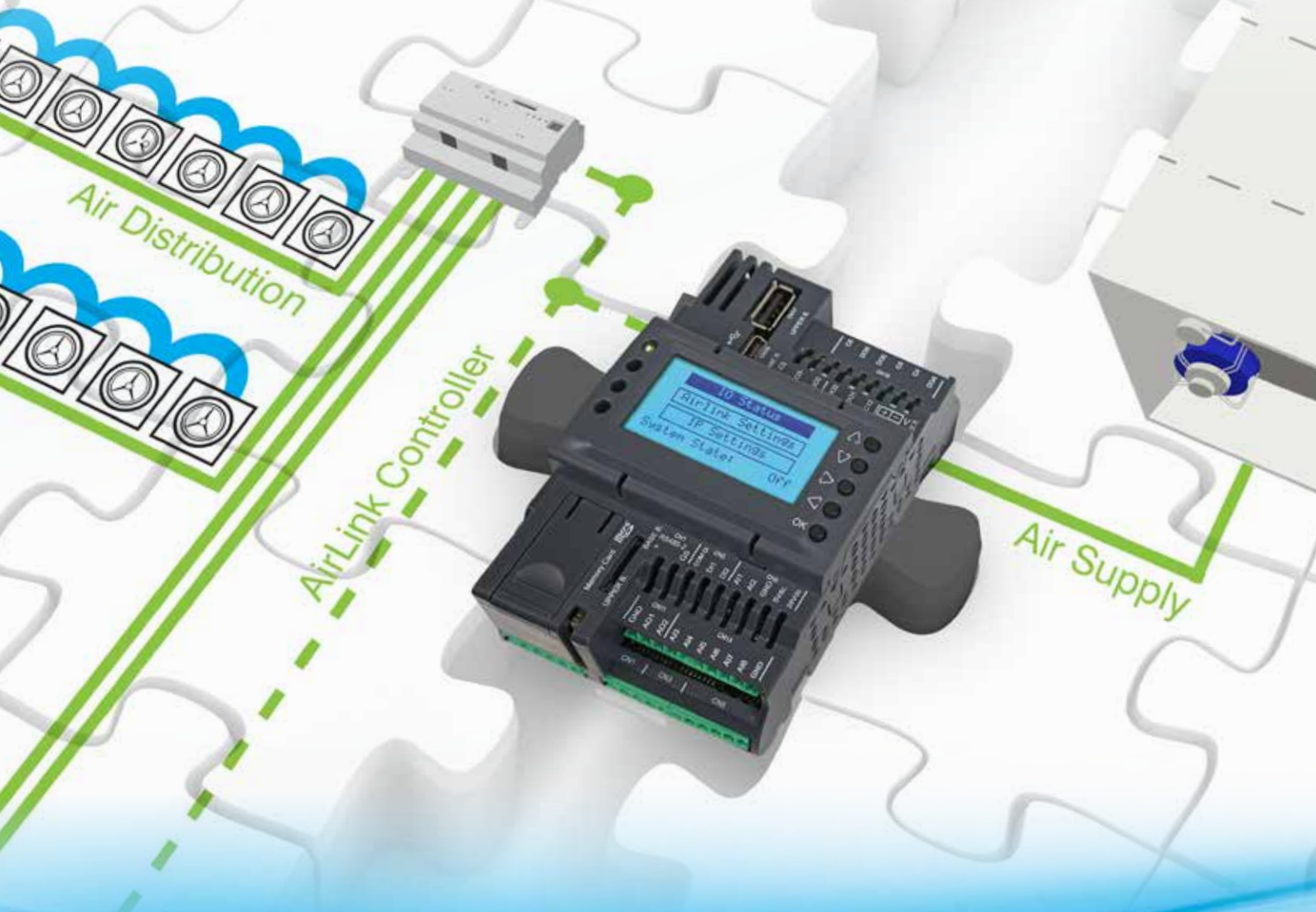


# AirLink HVAC Management System

**Seamless Control**

from **Air Supply** to **Air Distribution**



Whether it's fan coil units or air handling units, the **AirLink Controller** has been designed to eliminate the need for an expensive BMS system.



**FANTECH**  
Intelligent Ventilation

# A Sustainable Cost Saving Control System

Fantech is committed to the ongoing development of innovative technologies that are designed to optimise the indoor environment and lower energy consumption.

In addition, the continuous increase of energy prices and efficiency requirements of NCC 2019 is driving greater demand for cost effective systems that can deliver ecologically-sound buildings. These systems are helping to create healthier and more productive spaces while providing centralised system monitoring and remote diagnostics.

AirLink (FCU/AHU) Controllers are designed to simplify HVAC management system for commercial buildings. They can be used with constant diffusers for open plan areas such as a reception area and cubical type offices in a building. The controller is also well suited to areas where small thermal zones exist, such as enclosed offices and meeting rooms. In these types of areas the AirLink controller can be used with Rickard electronic VAV diffusers to manage precise air distribution and individual comfort control. Since a thermostat is built into every Rickard diffuser, optimal thermal comfort is achieved within all areas of the building.

## Key Benefits

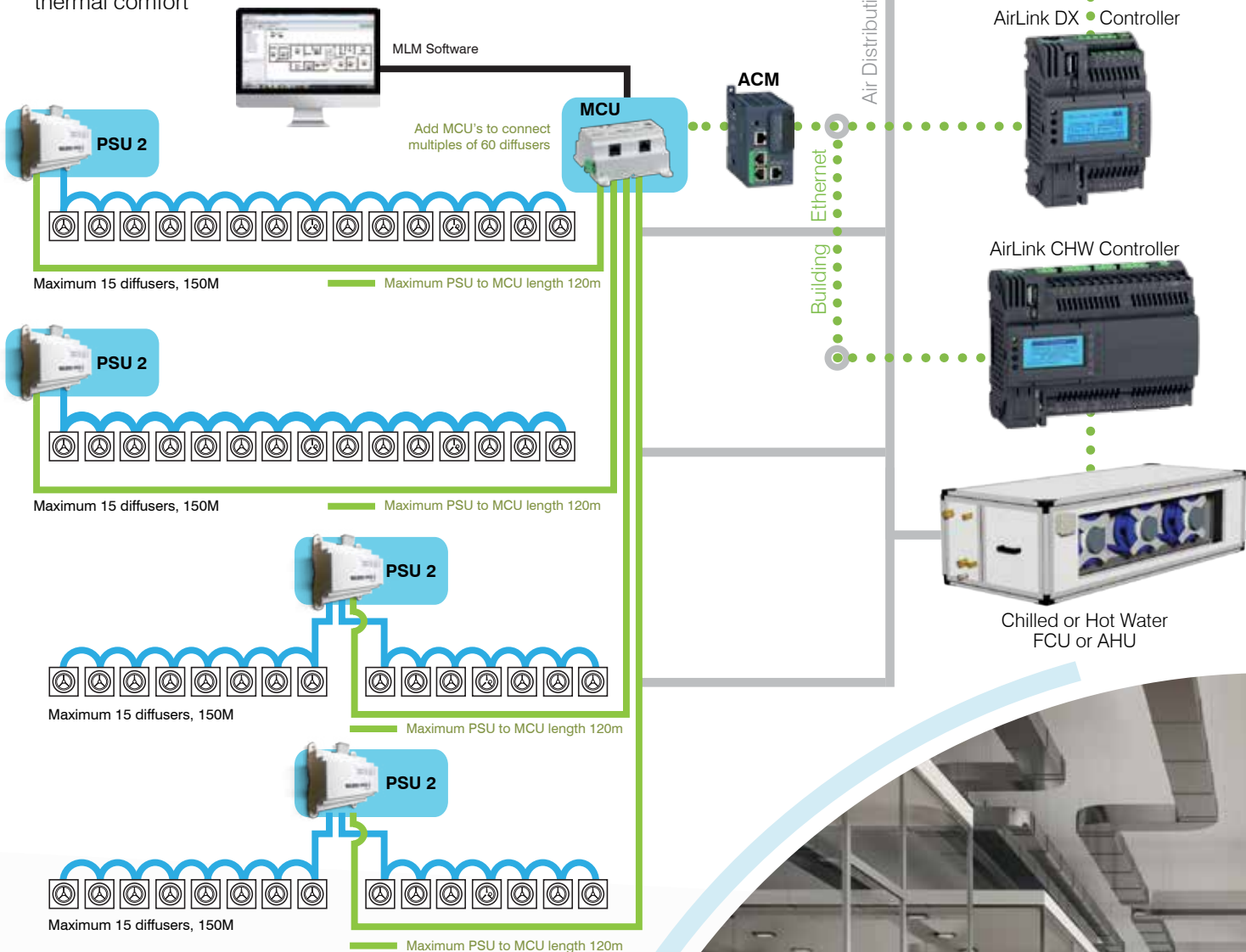
- Easy Integration with DX air and water cooled systems, as well chilled and hot water system
- AirLink controllers can eliminate expensive BMS requirements or used as a standalone system
- Can reduce number of required fan coil units when using VAV diffusers for zone control
- Better thermal comfort control when using VAV diffusers to create smaller thermal zones
- Lowers running costs by minimizing energy consumption with less over shoot



# AirLink VAV System Connectivity

## AirLink System with Rickard Electronic VAV Diffusers

- For areas with multiple thermal spaces such as individual offices and meeting rooms
- Better thermal zone control, duct pressure sensor required
- Variable Air Volume at the diffuser for precise thermal control and less overshoot
- Temperature control for every room
- Uses duct pressure control strategy to optimise energy efficiency and improve thermal comfort



## Electronic VAV Diffusers

For smaller thermal zones  
such as individual offices





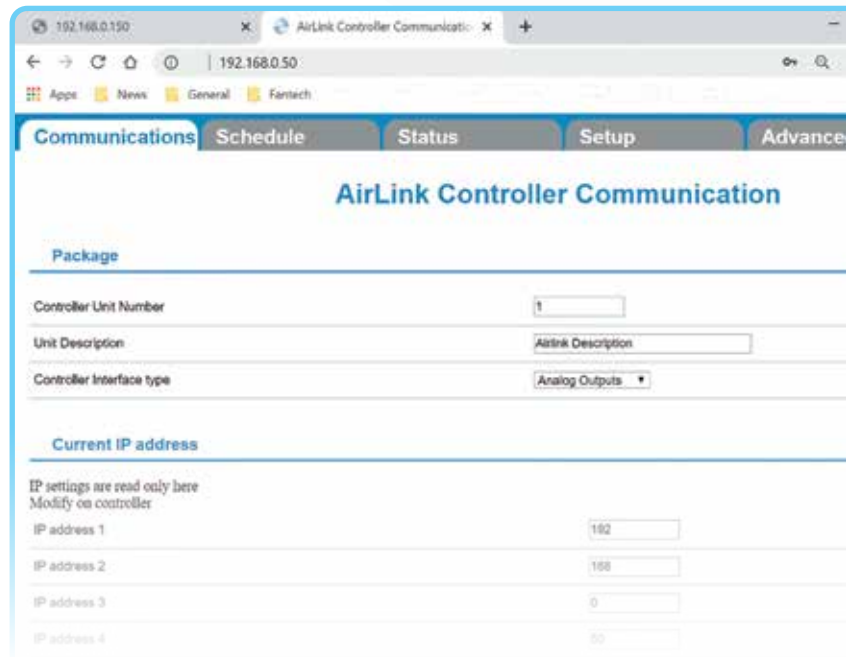
## AirLink System with Constant Diffusers

- Thermal comfort control for open plan office areas
- External room thermostat with up to 4 room sensors



## Reduced Onsite Commissioning Time

The AirLink controller is designed to simplify the setup of the air distribution system and reduce commissioning time onsite. Setup can be either performed at the controller itself or managed remotely via a web browser.



Constant Diffusers

Used in open plan work areas



# Which **Controller** Do You Need?

The AirLink controller creates a complete HVAC management system for commercial buildings where Fan Coil Units (FCU) or Air Handling Units (AHU) are used. The controller can manage one unit and operate single or variable speed fans.

There are two controller kits to choose from depending on the type of FCU or AHU selected.

## AirLink **CHW** Controller

**The CHW model AirLink Controller is used with a Chilled or Hot Water Air Handling System.**

- Connects to a Fan Coil Unit (FCU) or Air Handling Unit (AHU) with one thermal zone
- Used with either Constant Diffusers or Rickard Variable Air Volume (VAV) Diffusers
- On/Auto/Off with afterhours run-on timer with real time clock
- Analogue operational mode only
- Hot / Cold valve control, 3-speed or On/Off
- Variable Fan speed control or On/Off
- Inputs: 8 x analogue, 8 x digital
- Outputs: 4 x analogue, 8 x digital
- Ports: 1 x USB, 1 x USB mini
- Modbus: 2 x RS485 (screw terminal block)
- Ethernet: Modbus TCP and BACnet IP with webserver






## AirLink **DX** Controller

**The DX model AirLink Controller is used with Air or Water Cooled Systems that are either ducted packaged AC units or split system AC units.**

- Connects to a Fan Coil Unit (FCU) or Air Handling Unit (AHU) with one thermal zone
- Used with either Constant Diffusers or Rickard Variable Air Volume (VAV) Diffusers
- On/Auto/Off mode of operation with afterhours run-on timer with real time clock
- Can be set to analogue or Modbus operational mode
- Hot / Cold valve variable control or On/Off
- Variable Fan speed control or On/Off
- Inputs: 8 x analogue, 2 x digital
- Outputs: 2 x analogue, 6 x digital
- Ports: 1 x USB, 1 x USB mini
- Modbus: 2 x RS485 (screw terminal block)
- Ethernet: Modbus TCP and BACnet IP with webserver



# AirLink Controller Kits & Ancillaries

Product Code	Description
<b>DCV-ARLK-DXKIT</b> 	<b>AirLink DX Controller Kit: For Air / Water Cooled Systems</b> <ul style="list-style-type: none"> <li>• AirLink DX Controller</li> <li>• Duct Temperature sensor</li> <li>• Transformer &amp; fuse</li> </ul>
<b>DCV-ARLK-CHWKIT</b> 	<b>AirLink CHW Controller Kit: For Chilled / Hot Water Systems</b> <ul style="list-style-type: none"> <li>• AirLink CHW Controller</li> <li>• Duct Temperature sensor</li> <li>• Transformer &amp; fuse</li> </ul>
<b>DCV-ARLK-M251KIT</b> 	<b>AirLink Communications Module: Required if Rickard VAV Diffusers are installed</b> <ul style="list-style-type: none"> <li>• 1 Unit per 64 Controller Kits</li> </ul>
<b>DCV-ARLK-WPKIT</b> 	<b>AirLink Wall Plate Kit</b> <ul style="list-style-type: none"> <li>• Master On/Off</li> <li>• After Hours Timer Switch</li> <li>• Run Indicator</li> </ul>
<b>DCV-SENS-PSDM250</b> 	<b>Duct Pressure Sensor 0-250 Pa: Required if Rickard VAV Diffusers are installed</b> <ul style="list-style-type: none"> <li>• 1 sensor per Controller kit</li> </ul>
<b>DCV-TEMP-TMWM</b> 	<b>Wall Temperature Sensor: Required if Constant Diffusers installed</b> <ul style="list-style-type: none"> <li>• Up to four sensors can be used with Constant Diffusers installed</li> </ul>



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