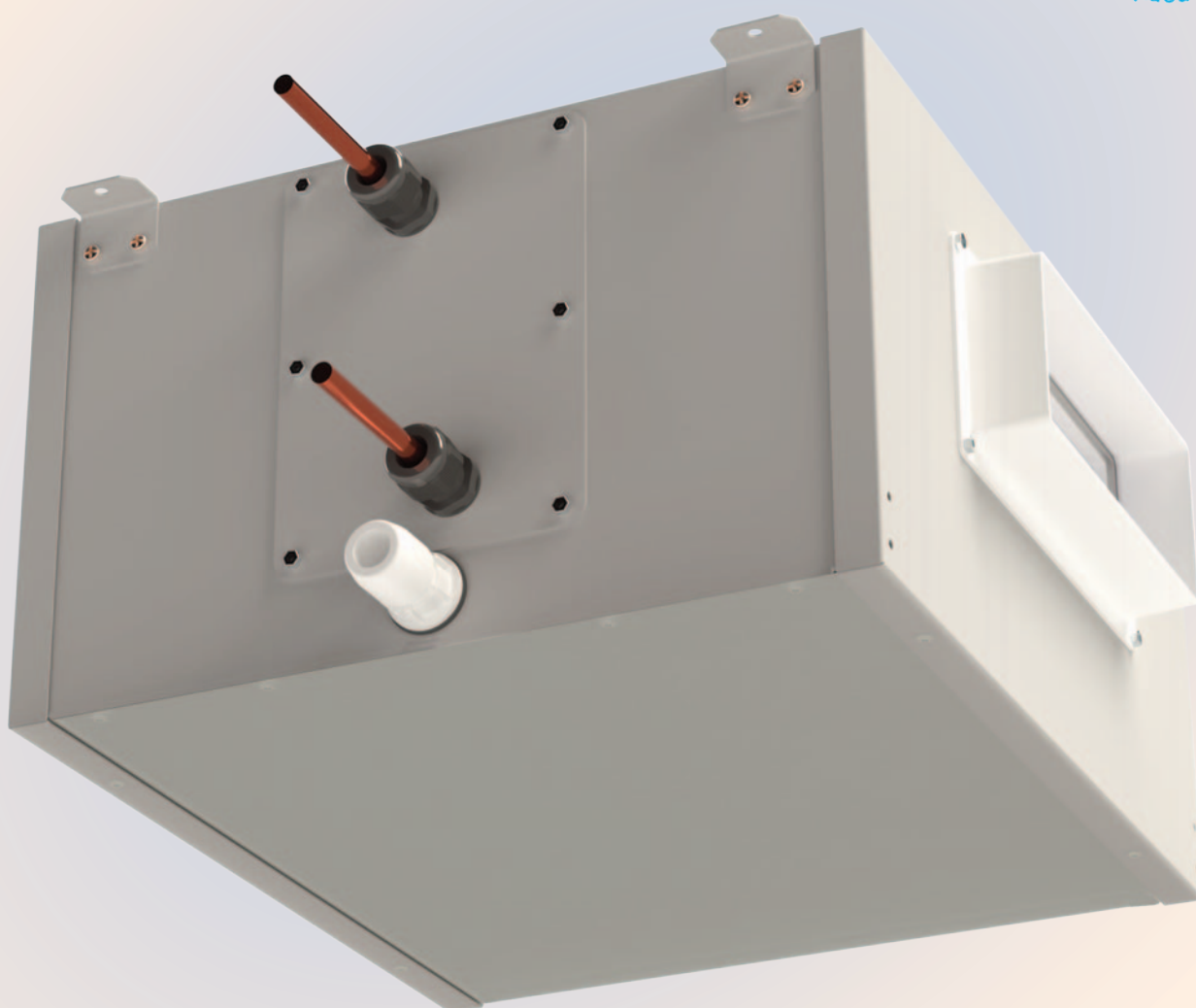


# Cool-Aire

for a  
comfortable  
ambient  
cool or warm



in-line cooling/heating unit

## Cool-Aire

The Vectaire **Cool-Aire** is an in-line cooling/**heating** module that utilises an existing water circuit within the property to cool the air flow by up to **17°C** or **heat** it by up to **29°C**

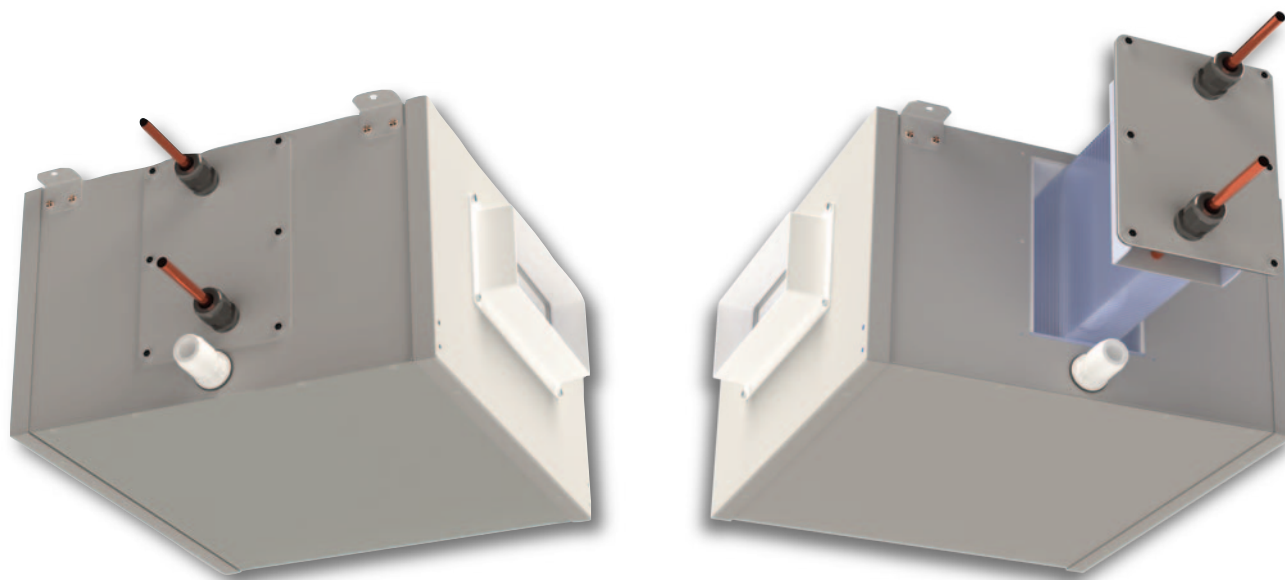
Its slimline design allows it to fit into any ceiling void of minimum 250mm height.

Universal handing allows the air to be passed in either direction over the coil through the 220mm x 90mm spigots at either end.

Internal, integral thermal lining - no exterior lagging required - no additional space taken up in ceiling void.

Designed to achieve compliance with **CIBSE TM59** assessments and **Approved Document O** of the Building Regulations.

Models are available with 2 or 3 port valves and actuators which can integrate seamlessly with any Vectaire MVHR for autonomous cooling.



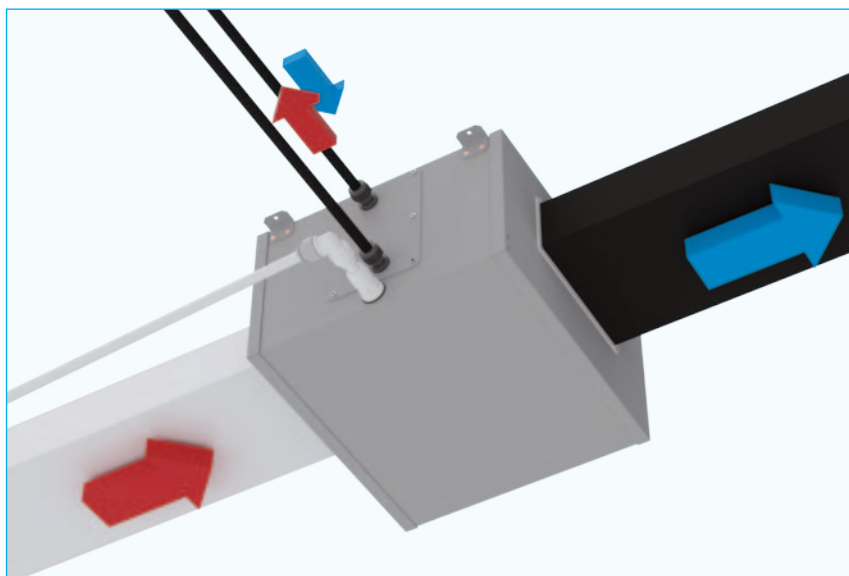
### GENERAL FEATURES

- ✓ Cooling/**heating** module
- ✓ In-line airflow installation
- ✓ Water loop required
- ✓ Integration with Vectaire MVHRs
- ✓ Slimline design to fit into shallow ceiling void
- ✓ Universal handing - bidirectional flow
- ✓ Alternative control models available
- ✓ Constructed from galvanised steel
- ✓ Ceiling, loft or void installation
- ✓ Easy to install and maintain
- ✓ Designed to achieve compliance with **CIBSE TM59** assessments and **Approved Document O** of the Building Regulations

Vectaire offers a design service to ensure that the unit installed is the best possible to provide efficient, effective, low energy and low running cost ventilation. Vectaire can also organise installation, commissioning and maintenance of these products.

# Cool-Aire

## INSTALLATION



The **Cool-Aire** should be placed in the room supply ducting of a Vectaire MVHR allowing for up to 93% heat recovery together with total automation of the coil.

The **Cool-Aire** is complete with hanging brackets for ceiling mounting. It can also be supported from the base by drop rods or a plinth.

The **Cool-Aire** is internally angled to encourage condensate flow out of the 15mm push fit connector.

Once the fresh air from the outside has passed through the MVHR it is pushed through the **Cool-Aire** which uses its 1.5kW capacity to cool the air by up to 17°C or **heat** it by up to 29°C when used with a **hot water** circuit.

## MODELS AVAILABLE

- **Cool-Aire 1** - Base unit only
- **Cool-Aire 2** - Base unit with ½" female thread 2-port valve and 230v actuator
- **Cool-Aire 3** - Base unit with ½" female thread 3-port valve and 230v actuator

**N.B** Valves and actuators on models **Cool-Aire 2** and **3** work through direct integration to a Vectaire MVHR.

The unit is controlled by monitoring the temperature of the fresh air coming into the property as well as the temperature of the extracted air from the dwelling.

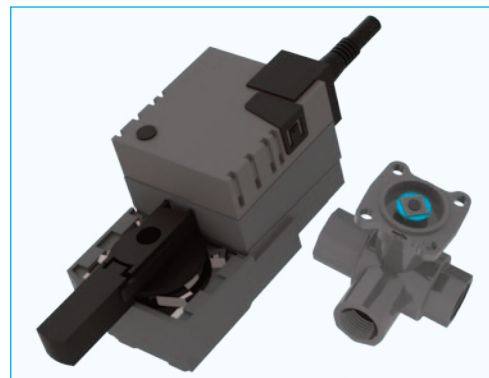
If cooling (**or heating if used with a hot water circuit**) is required the MVHR automatically opens the valve to begin cooling or **heating** the supply air.

Alternatively, a room mounted thermostat can be installed to control the coil directly.

## ACTUATOR AND 2 PORT VALVE



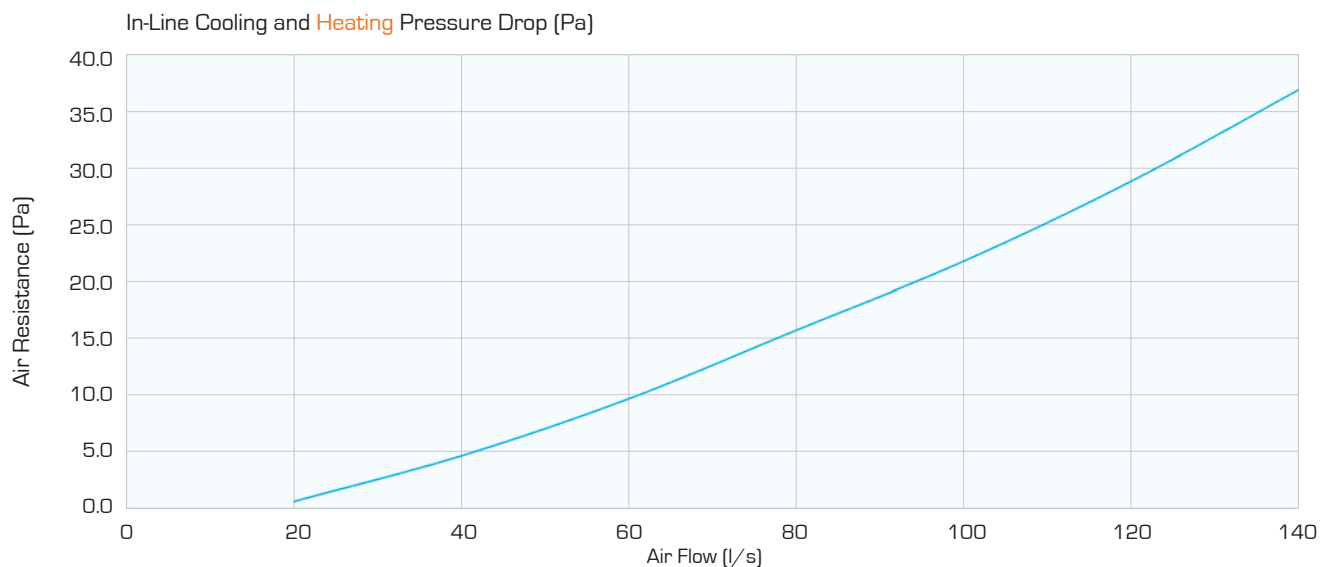
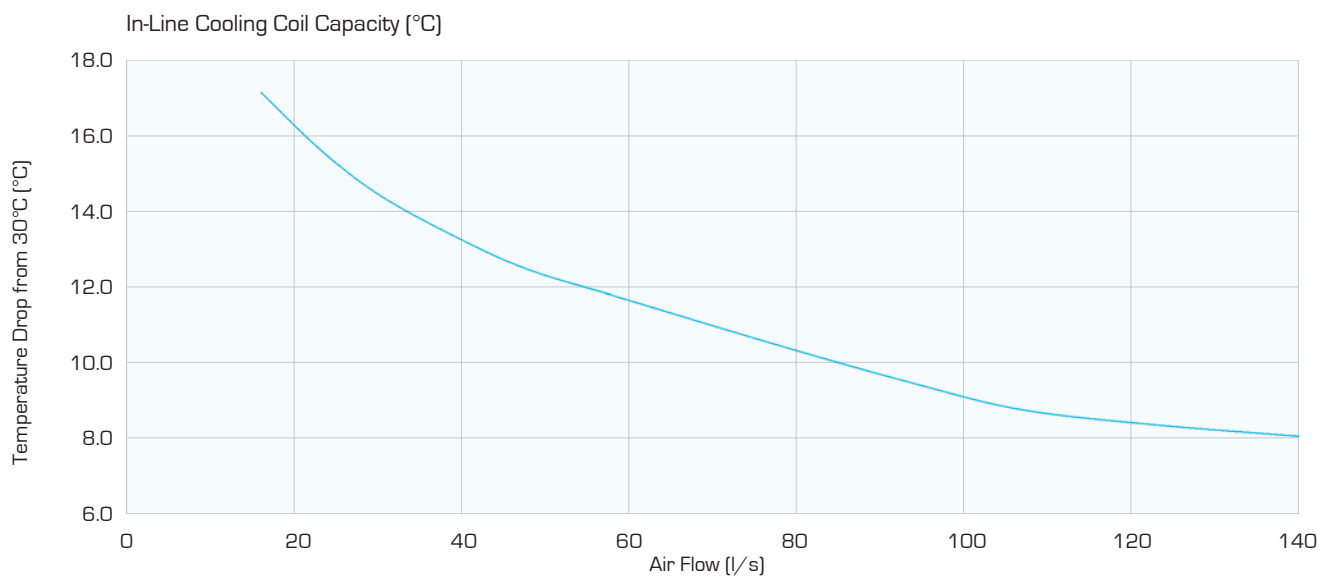
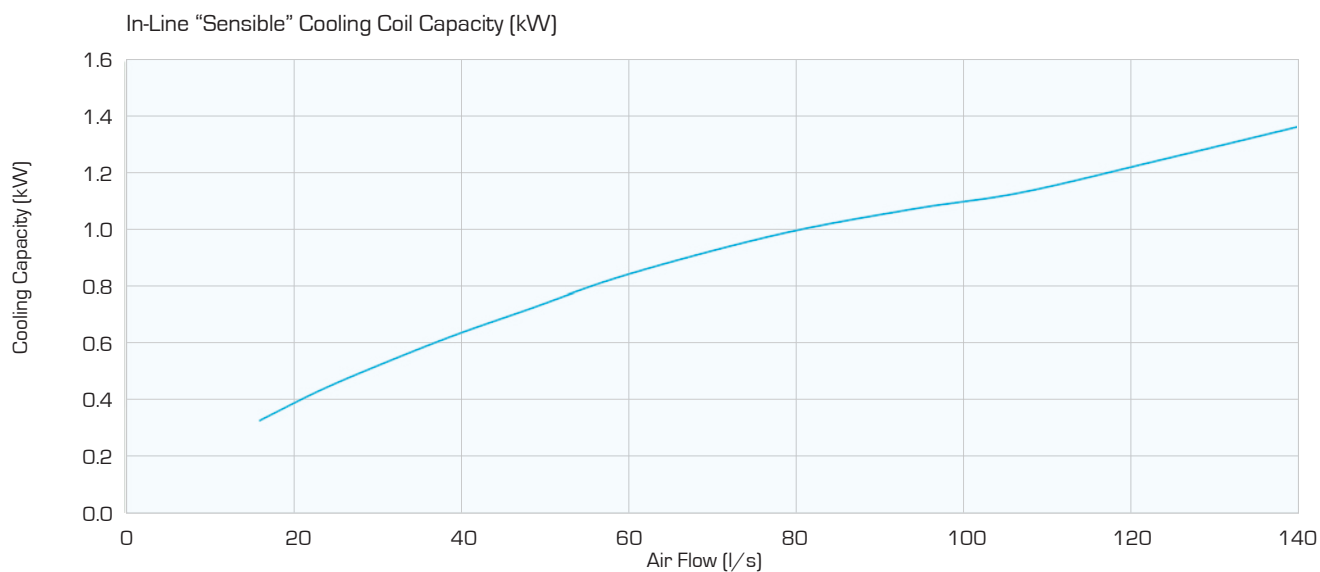
## ACTUATOR AND 3 PORT VALVE



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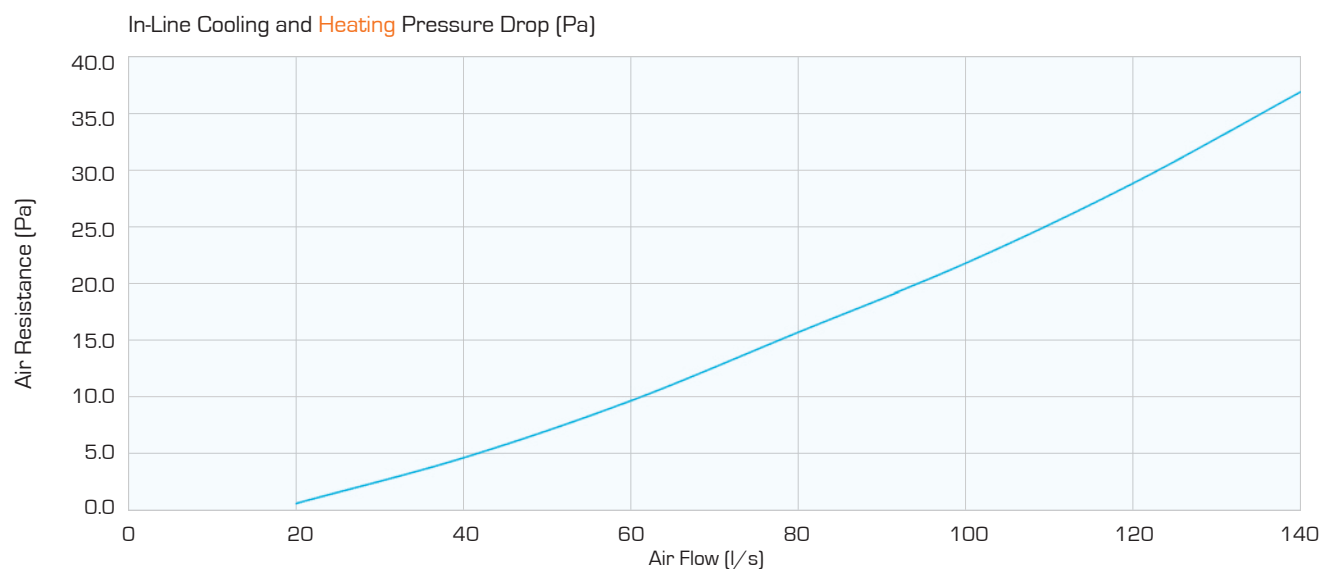
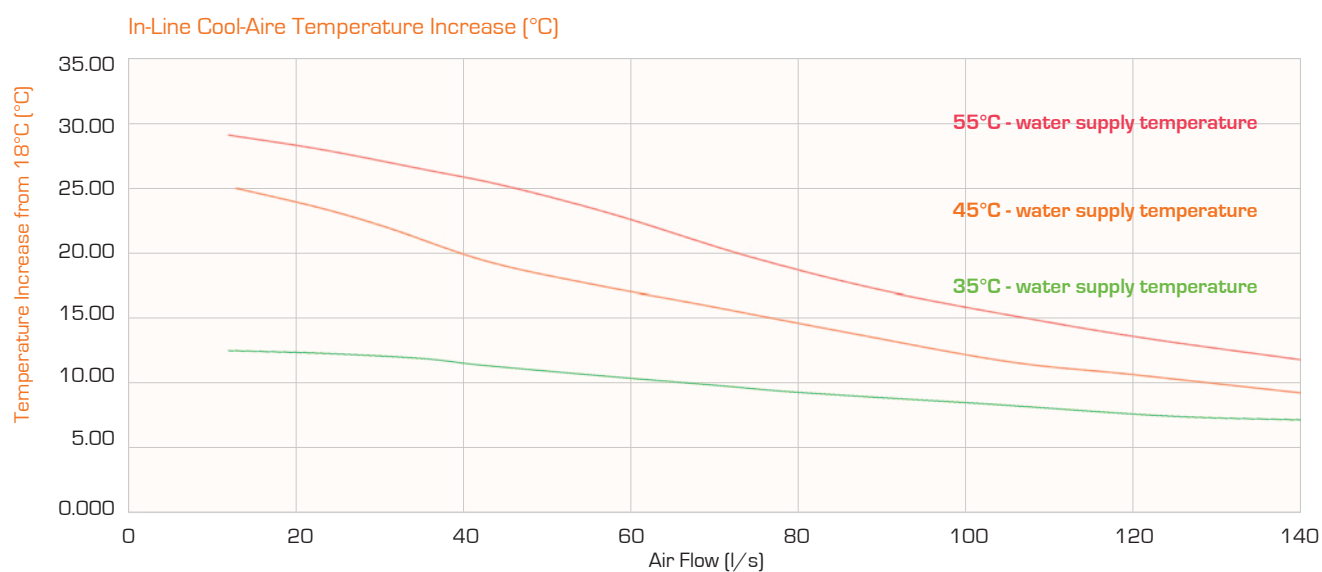
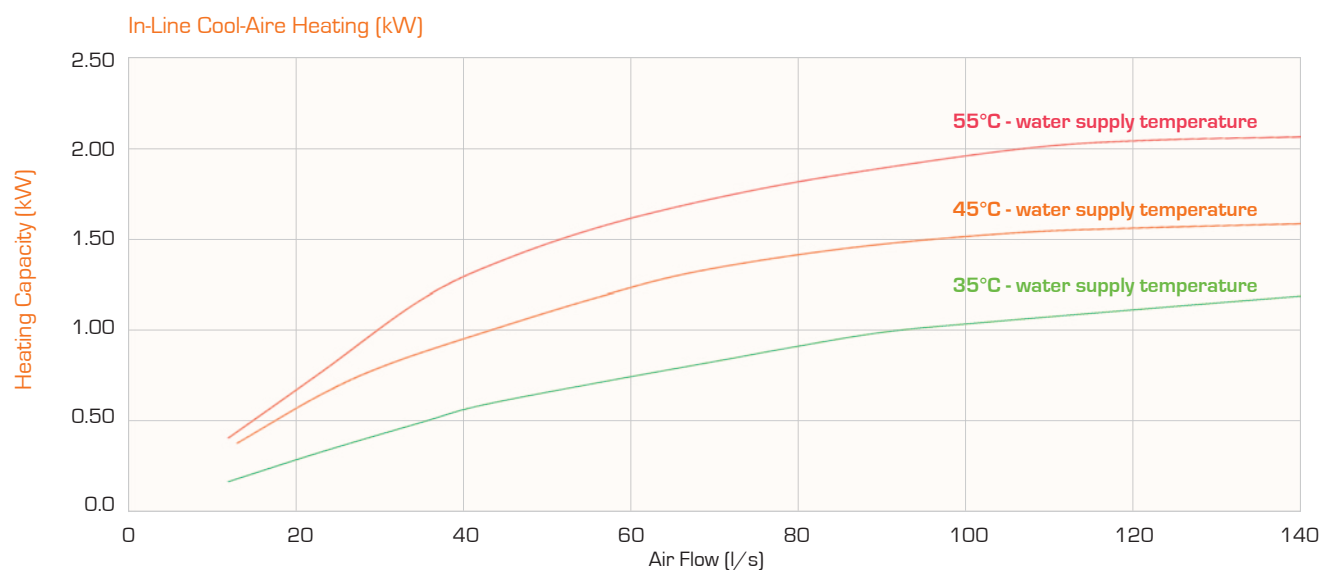
# Cool-Aire

## PERFORMANCE - COOLING POWER (curves are for guidance only)



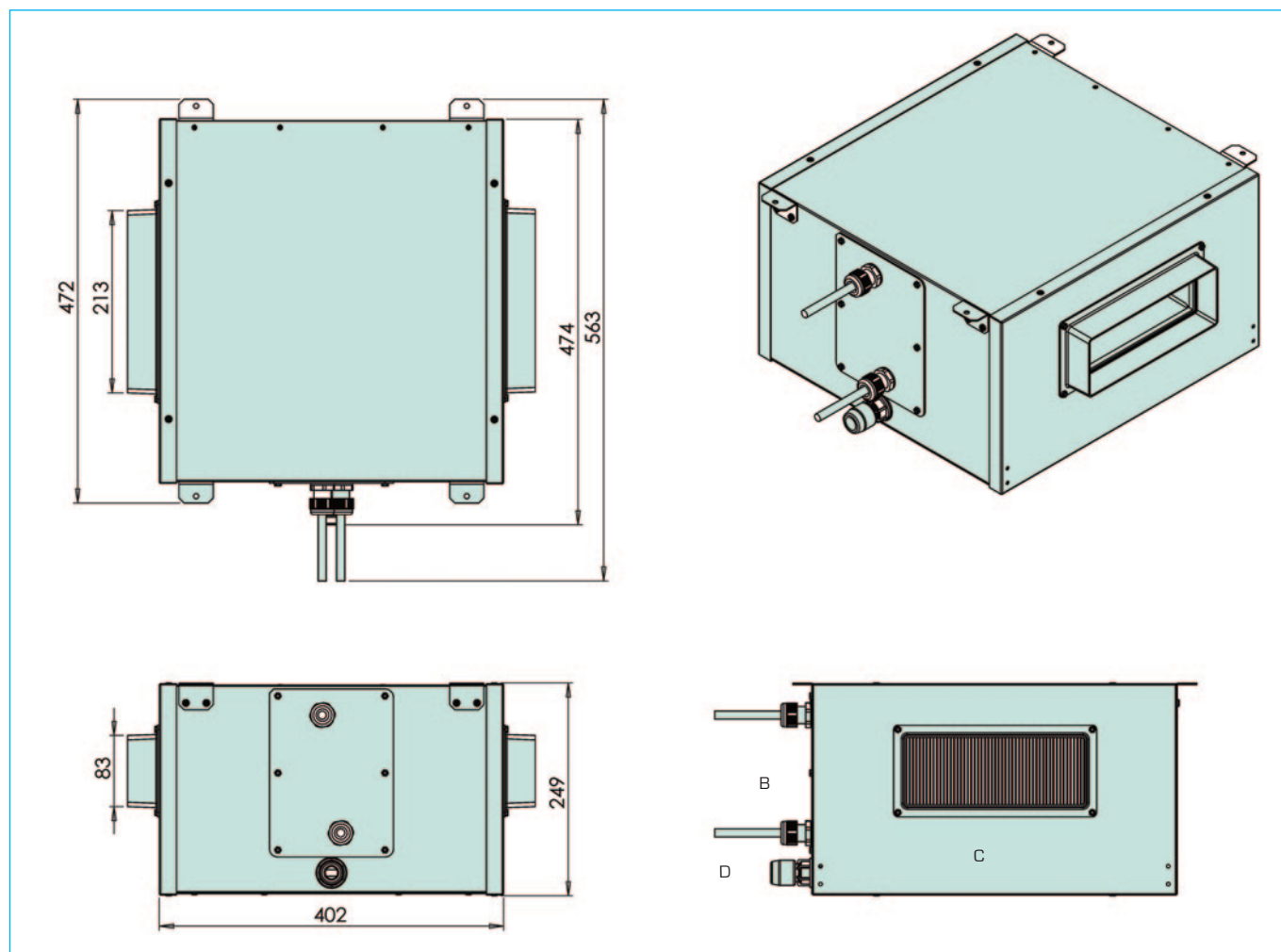
## Cool-Aire

## PERFORMANCE - HEATING POWER (curves are for guidance only)



# Cool-Aire

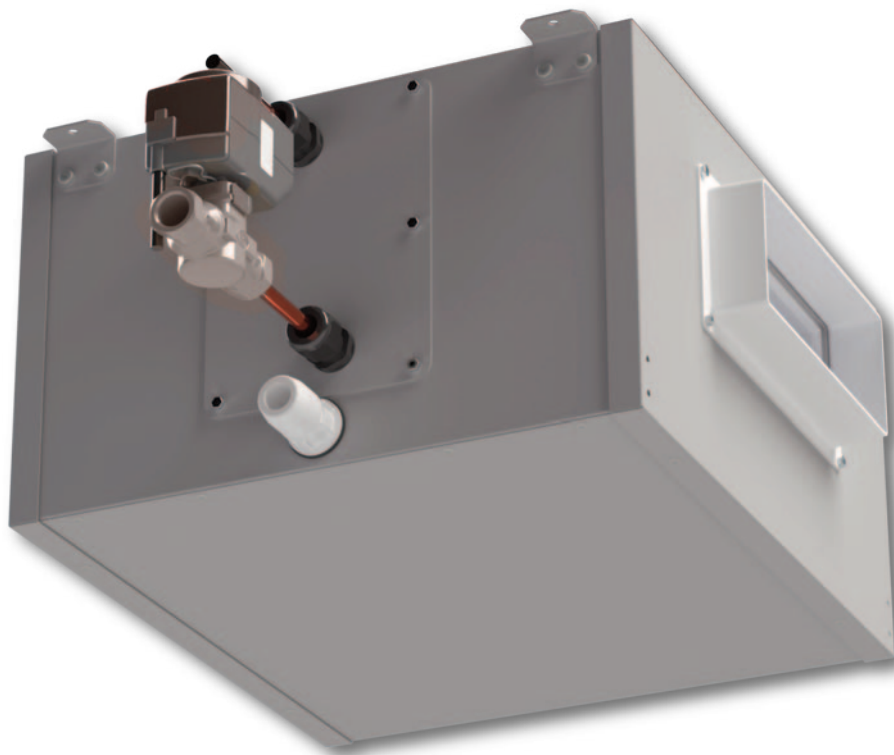
## DIMENSIONS - mm



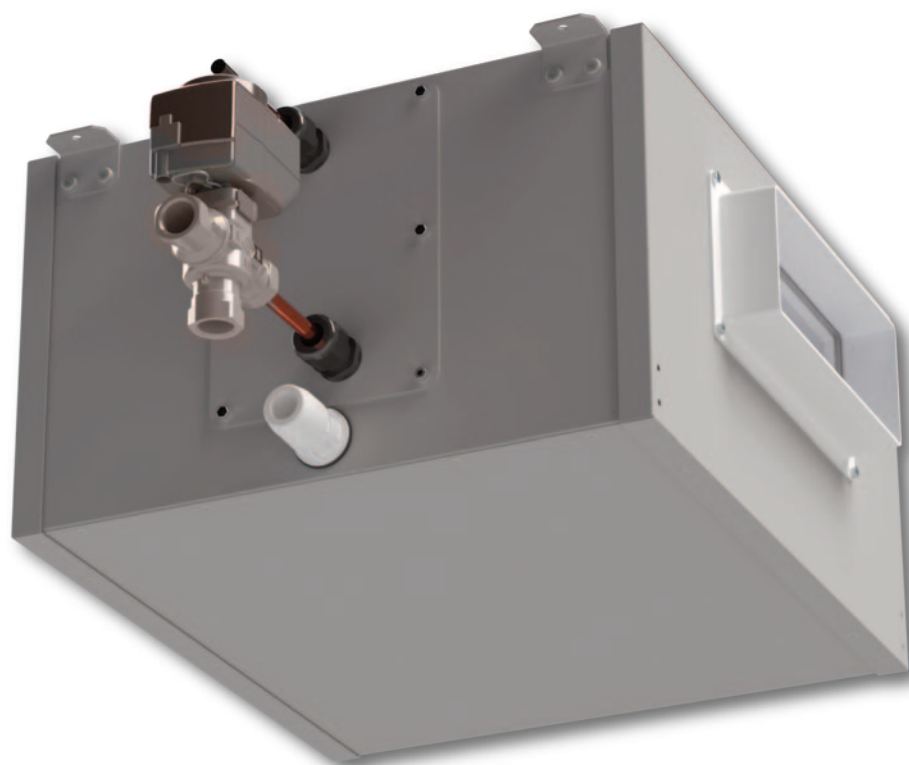
- A. Mass - 8 kgs [dry]
- B. Coil connections - 9.6mm
- C. Spigot - to fit 90mm x 220mm
- D. Drain - 15mm push fit adaptor

# Cool-Aire

## Cool-Aire 2



## Cool-Aire 3

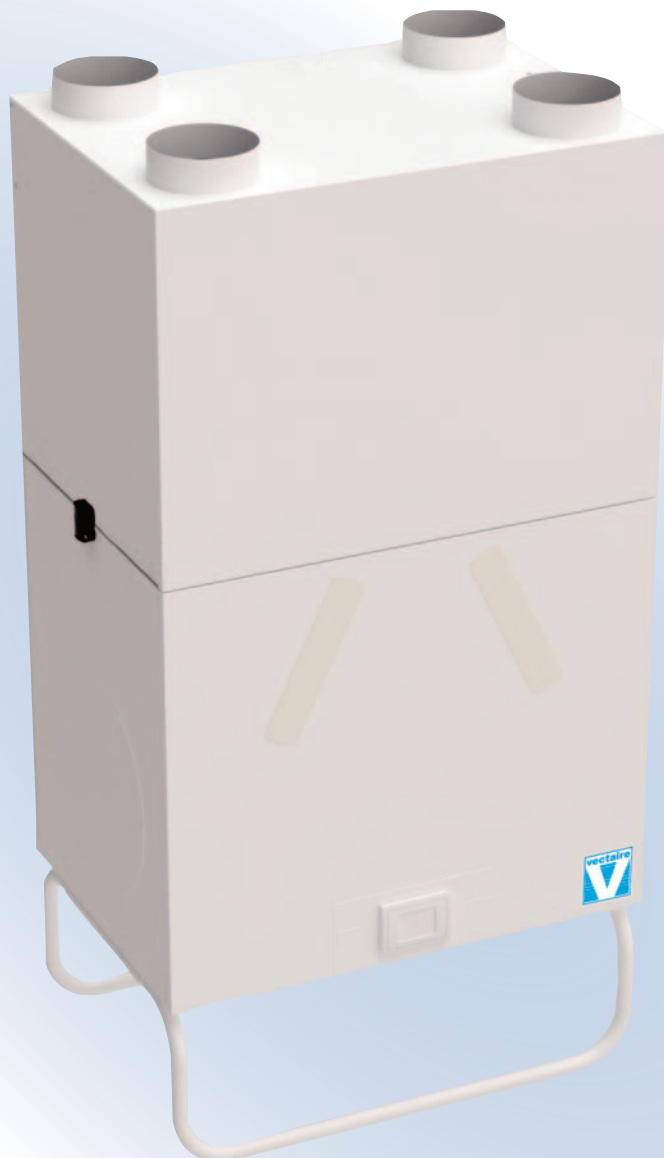


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Other Vectaire cooling products

# Cool Breeze and Cool Breeze Plus



reducing  
the risk of  
over-heating  
in residential  
properties



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