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ONEAIR

# High Induction Duct Systems

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PRODUCT DATA SHEET

# TEXTILE HIGH INDUCTION DUCT SYSTEM

Textile high induction ducts are lightweight, durable, and highly versatile. Made from advanced fabrics, they can be produced in any diameter or length to suit applications. Their washable, easy-to-maintain materials make them ideal for environments requiring frequent cleaning. Available in a wide range of colours and fabrics, they blend seamlessly into any space.

Airflow is precisely controlled through calibrated laser-cut perforations, ensuring optimal air distribution and comfort while meeting industry standards. It has been rigorously tested by Australia's leading institutions and is fire rated to AS/NZS 1530.2.

## Features and Benefits

### Lightweight

The weight of fabrics varies from 75-480 g/sqm, depending on the type and fire rating. This means that extremely light loads are placed on the structure of the building, making these ducts suitable for any application.

### Faster Installation

The simple installation system of our diffusers, combined with the lightweight design of the fabric, reduces installation time and therefore labour costs.

### Easier Maintenance

Textile diffusers are easy to clean and sanitise, allowing for planned maintenance at more consistent costs.

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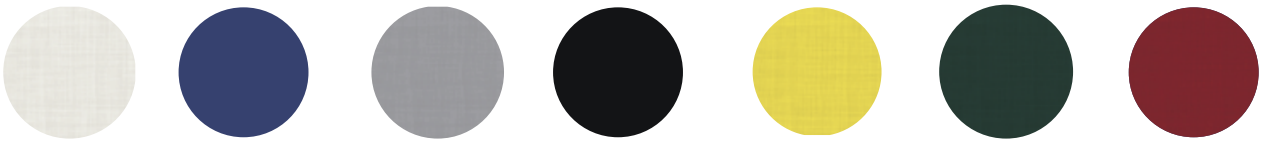
## Colours



RAL 9010 | RAL 5010 | RAL 7040 | RAL 9005 | RAL 1018 | RAL 6005 | RAL 3000

## Fabrics

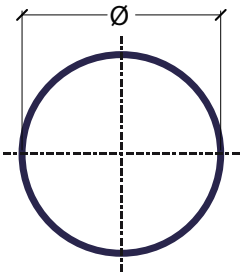
| Product Code | Composition | Fire Resistance |
|---|---|---|
| **DHITS** | 100% polyester with acrylic coating | None |
| **DHIT1** | 100% polyester with polyurethane coating | Euroclass B s1 d0 |
| **DHIT0** | Glass fibre with polyurethane silicone coating | Euroclass A1 |

## Duct Sizing

Contact you local Idealair Group representative to assist with duct sizing and configuration.

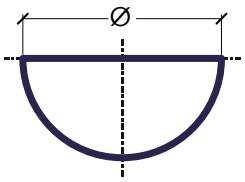
## Available Shapes

Textile ducts are available in 3 shapes to suit different space or ventilation requirements. Diameters range from 200mm to 2000mm and are customisable on request.



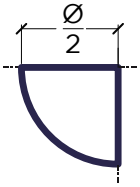

### Round Duct

Standard shape recommended.




### Half-Round Duct

Useful where there is not enough space for round duct.




### Quarter-Round Duct

Used where the diffuser is to be installed along the perimeter of the room.



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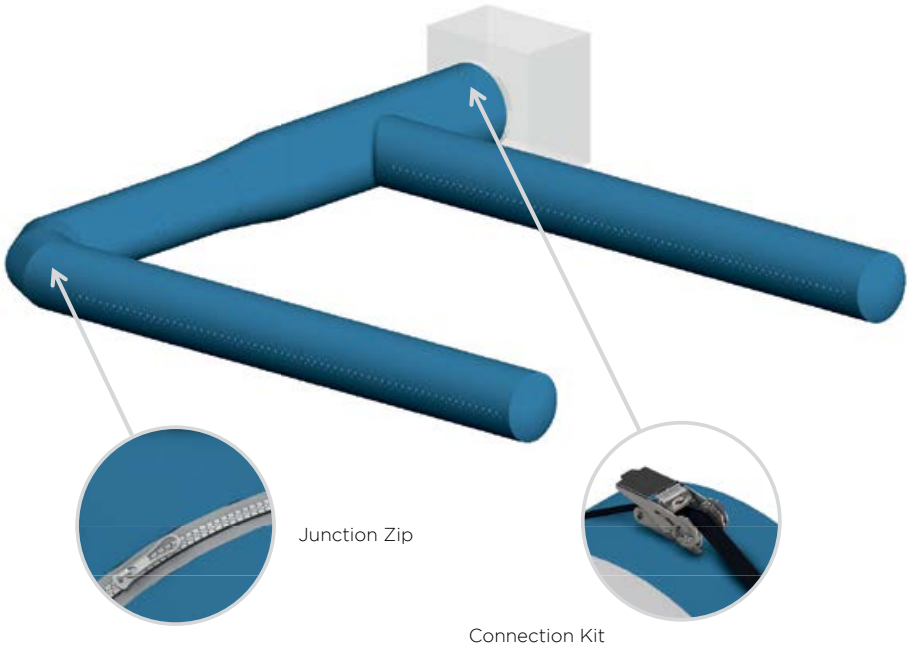
## Round Duct

The round duct system is available in a variety of duct section sizes to suit different project requirements. Accessories include 90° / 45° or customised bends, circular or square-round reducers, Tee units and an equaliser. A plenum for connection to fan units can also be supplied on request. The round duct comes with a standard fixing system such as clips, zip hinges, turnbuckles, clamps and cable. See page 6 for suspension options.

## Accessories and Special Parts



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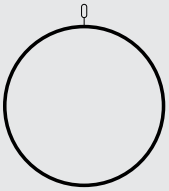
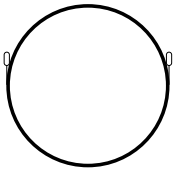
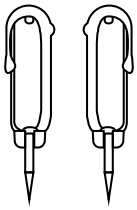
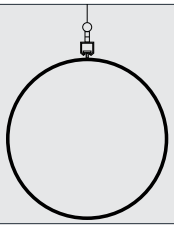
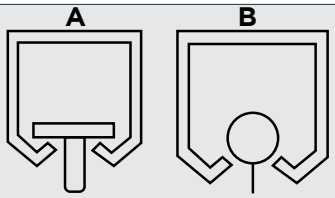
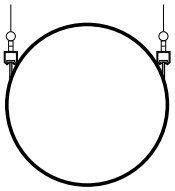
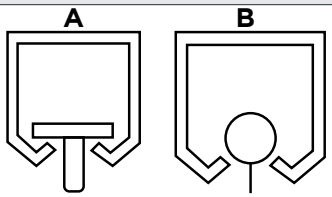
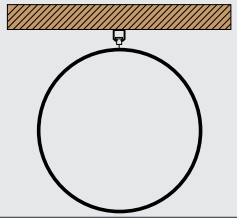
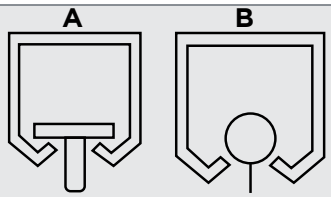
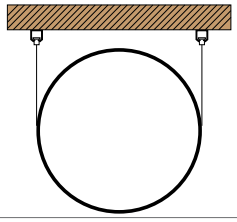
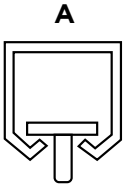
# Suspension Types

| Reference | Section View | Suspension Type | Description |
|---|---|---|---|
| 1 |  | | Single wire |
| 2 |  |  | Double wire |
| 3 |  |   | Single suspended rail with wire/plank and skate (A) or rib (B) |
| 4 |  |   | Double suspended rail with wire/plank and skate (A) or rib (B) |
| 5 |  |   | Single ceiling rail with skate (A) or rib (B) |
| 6 |  |   | Double suspended rail with skate |



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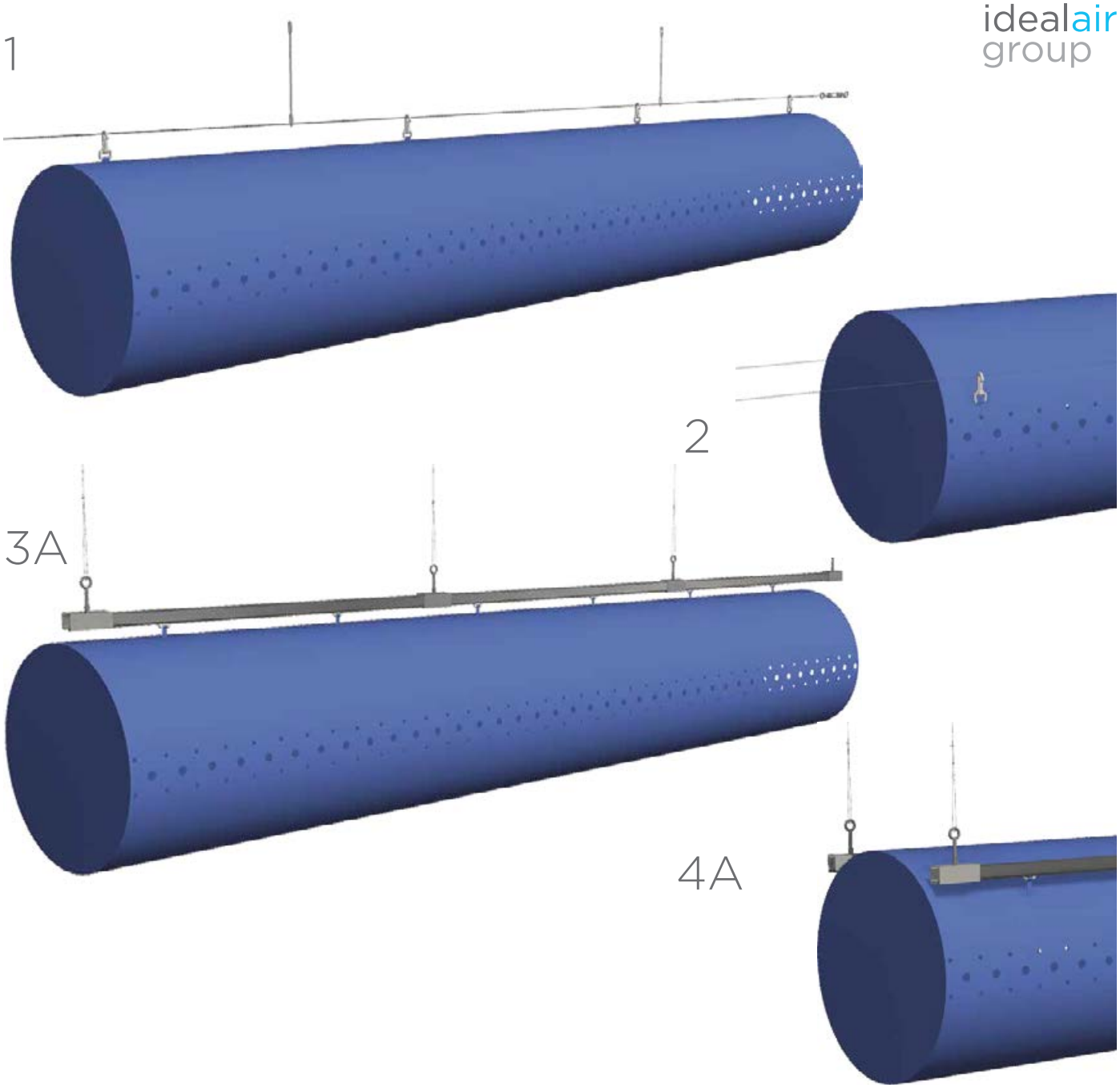


## Weights

| Weight per linear meter of circular ducts [kg/m] | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ø | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
| DHITS | 0.11 | 0.17 | 0.23 | 0.28 | 0.34 | 0.40 | 0.45 | 0.51 | 0.57 | 0.62 | 0.68 |
| DHIT1 | 0.11 | 0.17 | 0.23 | 0.28 | 0.34 | 0.40 | 0.45 | 0.51 | 0.57 | 0.62 | 0.68 |
| DHIT0 | 0.28 | 0.42 | 0.57 | 0.71 | 0.85 | 0.99 | 1.13 | 1.27 | 1.41 | 1.56 | 1.70 |

For larger diameters, contact Idealair Group



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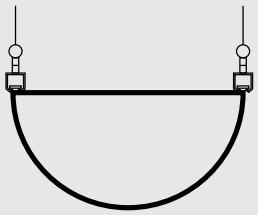
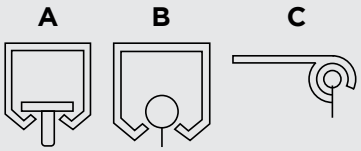
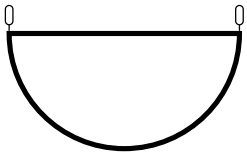
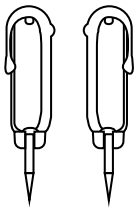
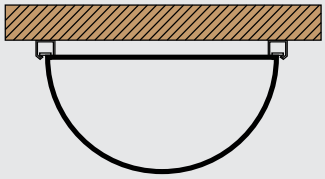
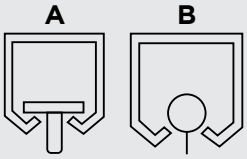
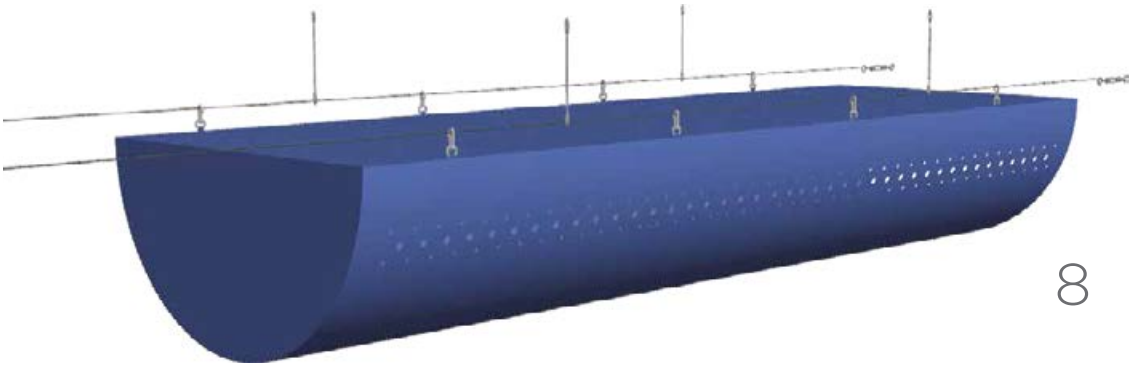
## Half-Round Duct

The half-round duct includes diffuser sections, which vary in size depending on the project requirements, along with an equaliser. Accessories for half-round diffusers are available upon request.

## Suspension Types

| Reference | Section View | Suspension Type | Description |
|---|---|---|---|
| 7 |  |   | Double ceiling rail with skate (A), rib (B) or (C) |
| 8 |  |  | Double wire |
| 9 |  |   | Double suspended rail with wire/plank and skate (A) or rib (B) |

7C



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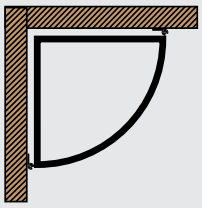
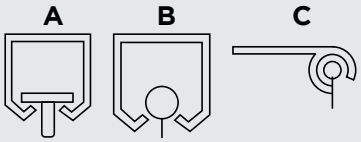
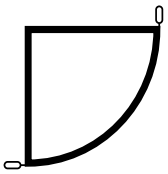
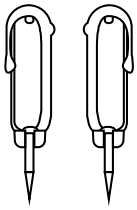
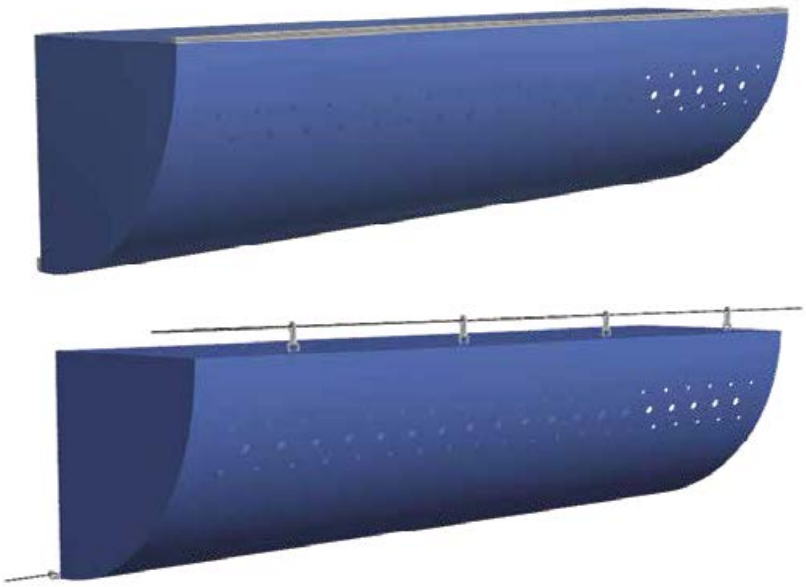
## Quarter-Round Duct

The quarter-round duct includes diffuser sections, which vary in size depending on the project requirements, along with an equaliser. Accessories for quarter-round diffusers are available upon request.

## Suspension Types

| Reference | Section View | Suspension Type | Description |
|---|---|---|---|
| **10** |  |  | Double ceiling/wall rail with rib (C) |
| **11** |  |  | Double wire |

10C



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# METAL HIGH INDUCTION DUCT SYSTEM

OneAir's metal high induction systems deliver quiet, uniform air distribution with a sleek architectural finish. Precision perforations minimise noise and prevent condensation, even in demanding environments, making them ideal for commercial and industrial applications.

Available in various shapes, finishes, and construction-grade metals, these ducts integrate seamlessly into any interior.

## Features and Benefits

### Customisable Looks

The numerous finishes available and the option of painting the diffuser ducts in a number of RAL colours give this product a modern contemporary look that can be easily integrated into any space.

### Quiet Diffusion

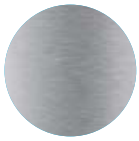
Even under heavy operating conditions, the metal ducts maintains a low sound level of approximately 20 dB, making it a primary choice for noise-sensitive environments.

### No Condensation Problem

Precision-controlled high induction airflow creates a vacuum effect around the diffuser which prevents any condensation across the duct surface.

## Finishes

Galvanised Steel



Aluminium

Stainless steel

## RAL Prepainted Steel Colours



RAL 9002



RAL 9010

RAL 9006

RAL 7016/7024

RAL 9005

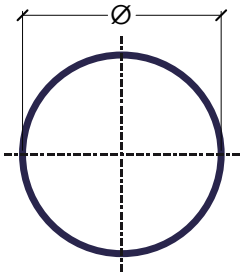
RAL 5010

## Duct Sizing

Contact you local Idealair Group representative to assist with duct sizing and configuration.

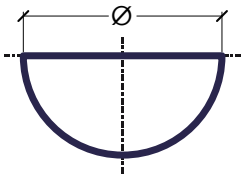
## Available Shapes

METAL ducts are designed in standard length modules and variable thickness between 0.6 and 1.2mm. They are available in 4 shapes to suit different space or ventilation requirements. Diameters range from 200mm to 1600mm.



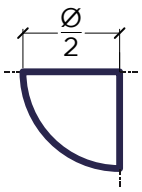

### Round Duct

Standard shape recommended.



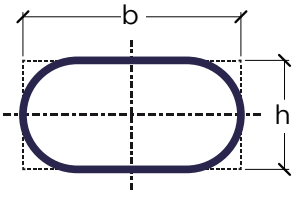

### Half-Round Duct

Useful where there is not enough space for round duct.




### Quarter-Round Duct

To be used where the diffuser is to be installed along the perimeter of the room.




### Oval Duct

Useful where there is not enough space for the round duct but the same air flow must be maintained.

## Weights

| Weight per linear meter of circular ducts [kg/m] | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ø | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
| Galvanised steel | 4.1 | 6.2 | 8.3 | 10.4 | 12.4 | 14.5 | 16.6 | 18.6 | 20.7 | 22.8 | 24.8 |
| Stainless steel | 4.2 | 6.3 | 8.4 | 10.6 | 12.7 | 14.8 | 16.9 | 19.0 | 21.1 | 23.2 | 25.3 |
| Aluminum | 1.8 | 2.7 | 3.6 | 4.5 | 5.3 | 6.2 | 7.1 | 8.0 | 8.9 | 9.8 | 10.7 |

For larger diameters, contact Idealair Group



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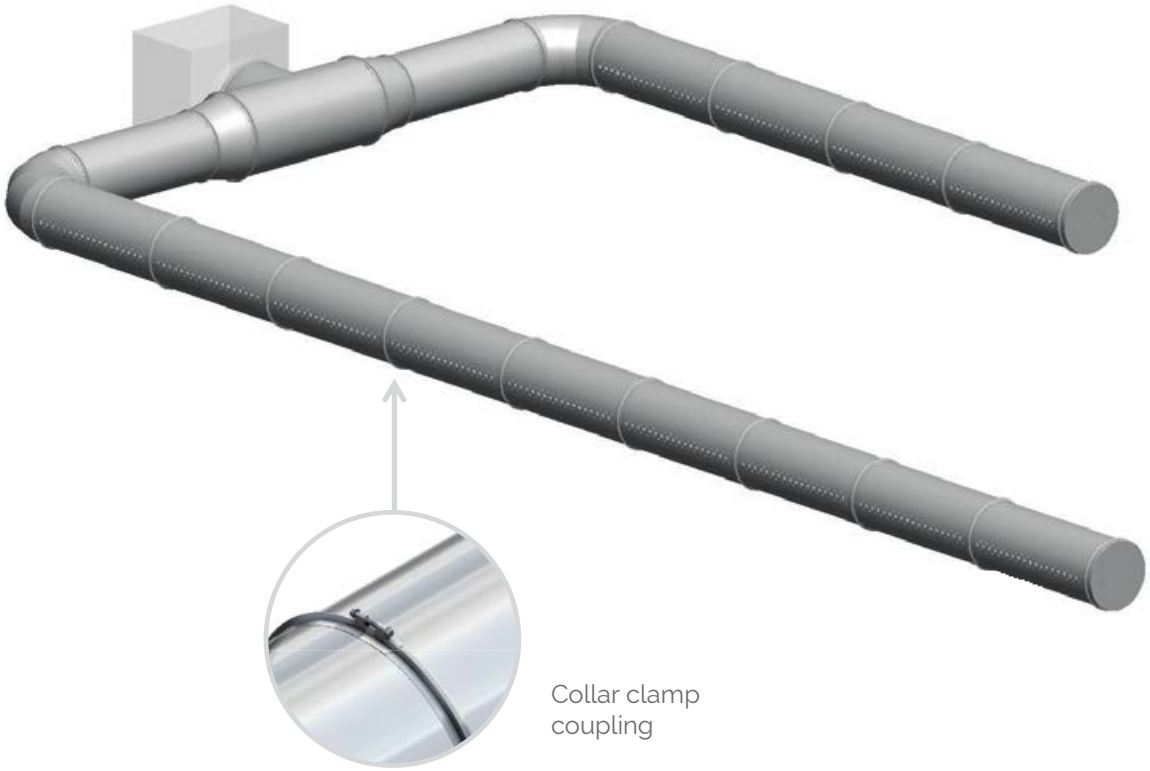
## Round Duct

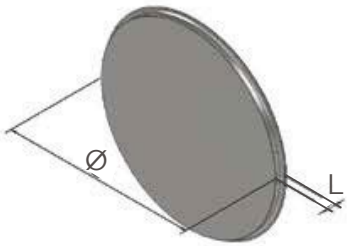
The circular duct includes the diffuser section, a junction collar between two consecutive modules and an end cap. The round duct comes with collars and an optional fixing kit for installation. Accessories such as 90° / 45° or customised bends, circular or square-round reducers, Tee units and plenums for connection to fan units can also be supplied on request.

## Accessories and Special Parts

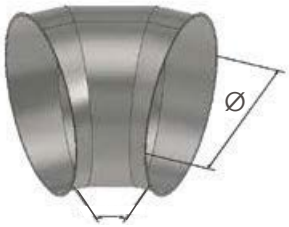


Collar clamp coupling

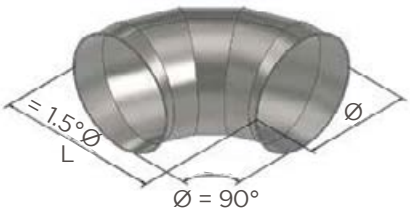
**Duct Section**




**End Cap**




**Elbow Bend 45°**




**Elbow Bend 90°**

**Reducer**

**Tee Section**



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## Half-Round Duct

The half-round duct includes the diffuser section and an end cap. Accessories for half-round diffusers are available upon request.

## Quarter-Round Duct

The quarter-circle duct includes the diffuser section and an end cap. Accessories for quarter-round diffusers are available upon request.

## Oval Duct

The oval duct includes the diffuser section, a coupling sleeve and an end cap. Accessories for oval diffusers are available upon request.

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# PLASTIC HIGH INDUCTION DUCT SYSTEM

OneAir's plastic high induction ducts offer a lightweight, durable and modern solution for efficient air distribution. Manufactured from flame-retardant polymer, they provide excellent shape stability and resistance to moisture, chemicals and corrosion, making them ideal for commercial applications.

With multiple diameters, cross-sections and suspension options available, these ducts integrate seamlessly into a wide range of architectural settings.

## Features and Benefits

### Lightweight

This system is easy to install thanks to the lightness of the material and the patented joining system. This allows the installation to be carried out quickly and at a low cost.

### Easier maintenance

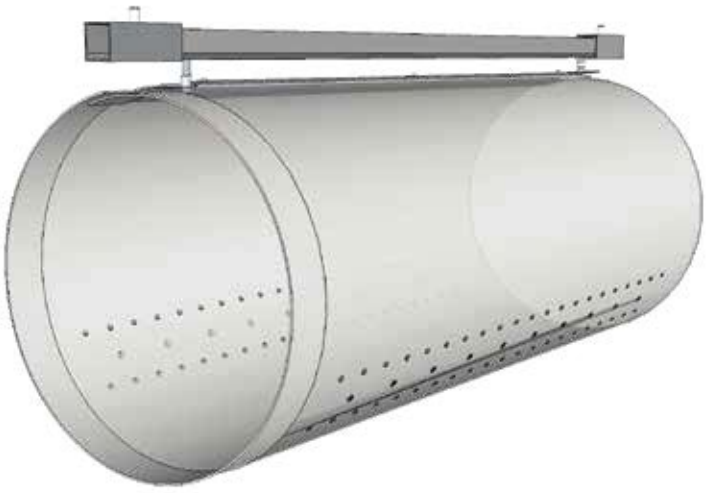
Plastic ducts guarantee high durability, easy cleaning and energy savings in line with the OneAir system.

### Versatility

The Lumina version combines air diffusion and lighting in one unit with integrated LEDs, allowing it to fully replace traditional lighting systems.

## Suspension Types

Plastic Installation system easy lock



Plastic installation system easy rail.



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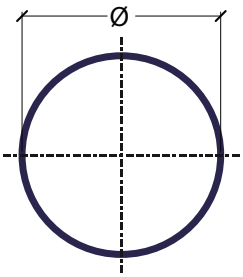
## Plastic Light Colours

## Available Shapes

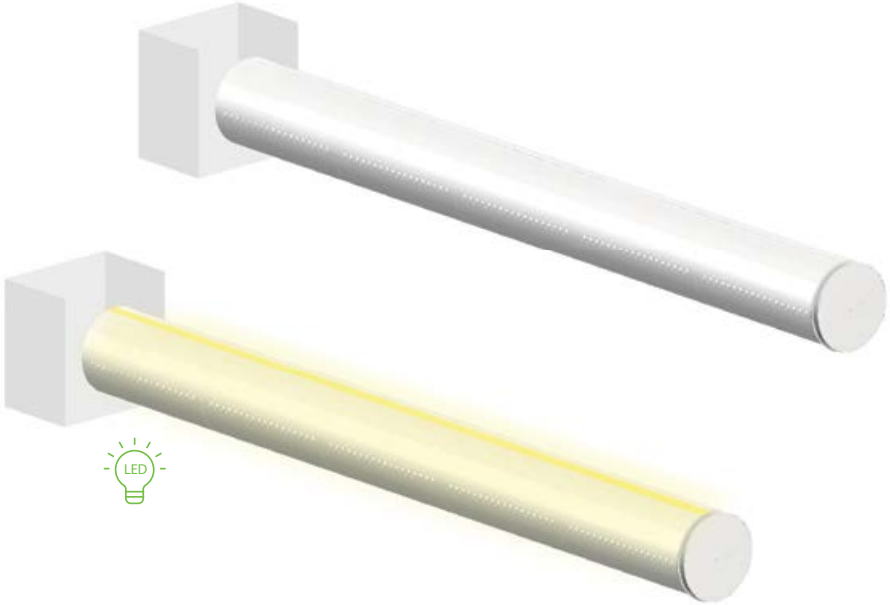
Plastic ducts are available in round duct only. For other duct shapes, see OneAir Metal or Textile ducts.




**Round Duct**

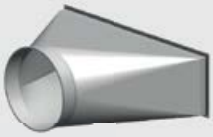
Standard shape.

## Accessories and Special Parts



Reducer

Tee Section



Plenum

Elbow Bend

End Cap



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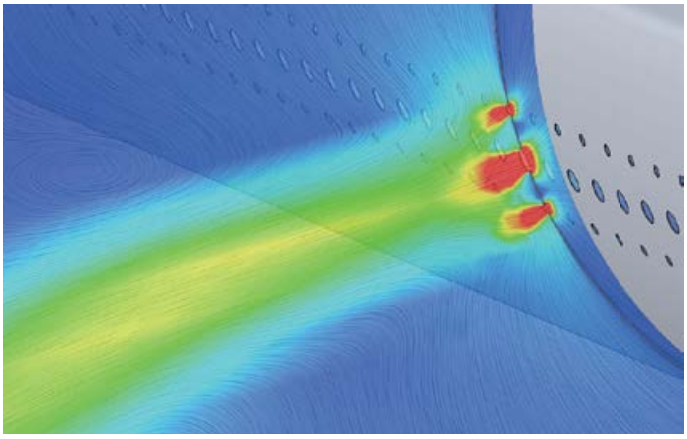
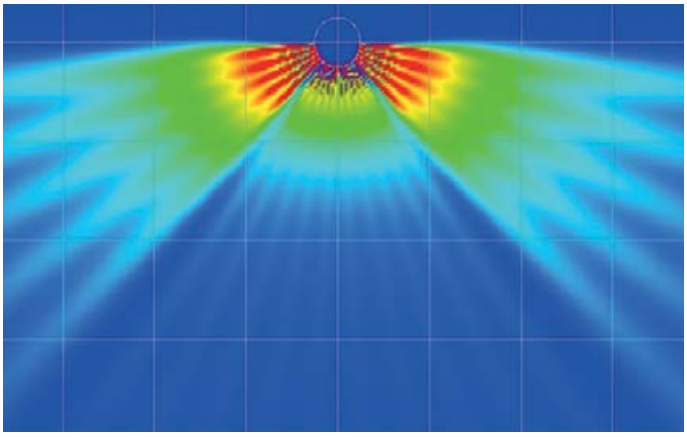
# ONEAIR SYSTEMS AND TECHNOLOGIES

## CFD Design & Analysis

OneAir® uses advanced CFD (Computational Fluid Dynamics) tools to design and validate tailored airflow solutions. Simulations are verified against real-life performance to ensure accuracy, reduce errors, and improve efficiency. The process meets UNI 10339 and EN 13182 standards and ensures high comfort for people present in a specific area.





# KEY OPTIONS

## Inducta

Inducta is a microperforated diffuser system designed for open spaces with low ceilings. It uses air entrainment to produce even temperature and humidity levels, while ensuring an efficient, cost-effective and reliable solution.

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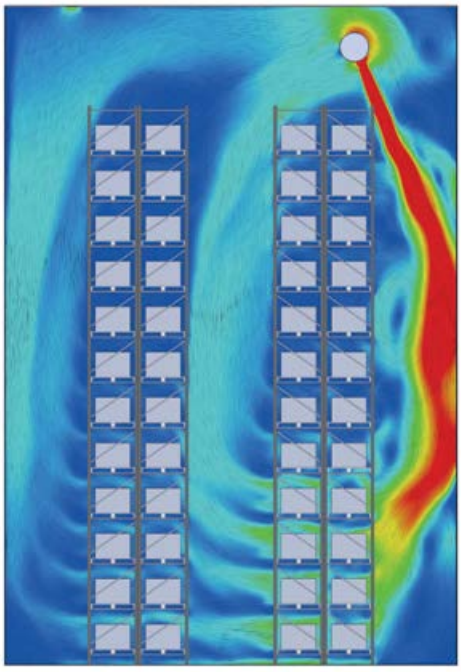
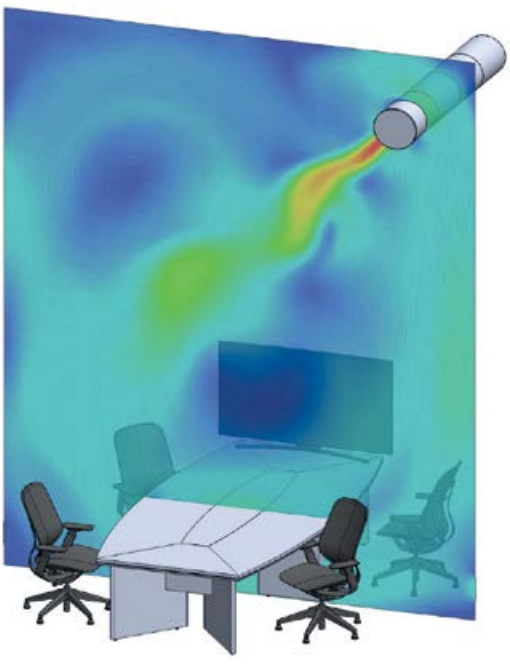
## Movimenta

Movimenta is built for large or irregular spaces where standard diffusion is insufficient. It creates stable airflow patterns to ensure uniform coverage and comfort, even in environments with obstacles.



## Movimenta-VAV

Movimenta-VAV adds variable airflow control to the core Movimenta system. It automatically adjusts to environmental changes, providing flexible climate control without the need for complex zoning infrastructure.





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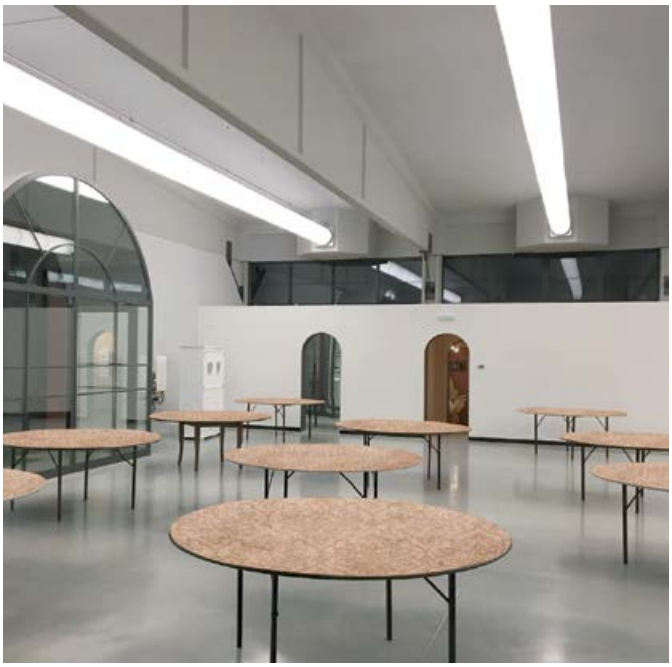
## Vari-D

Vari-D is a patented variable-geometry diffuser system that adjusts air speed, direction, and temperature in real time using integrated sensors and actuators. It reduces the number of ducts required, maximises energy savings, and maintains comfort in changing conditions. Controlled via OneControl, it meets UNI 10339 and EN 13182 standards.

## Lumina

Lumina integrates air distribution and LED lighting in one unit. Available in metal or plastic with white, RGB, or dimmable options, it provides both comfort and design flexibility. Flame-retardant materials ensure safety in public spaces while reducing installation time and cost.



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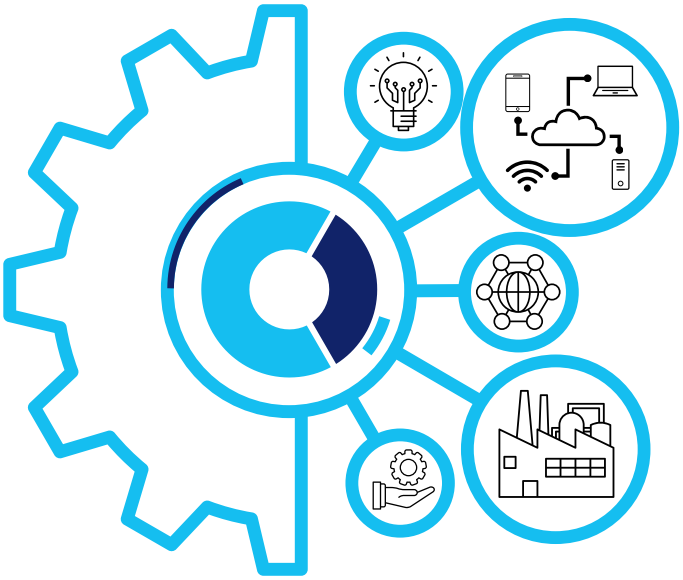
## Omnia

Omnia is OneAir's smart integration platform that connects all HVAC components through the BMS. It enables customised control strategies like automated zone adjustments and system diagnostics, adapting seamlessly to project requirements.



## Compatibility Summary

| | SHAPES | | | | MATERIALS | | | Energy Efficiency index |
|---|---|---|---|---|---|---|---|---|
| | Round | Half-Round | Quarter-Round | Oval | Fabric | Metal | Plastic | OneAir Sustainability Rating |
| INDUCTA® | ✓ | | | | ✓ | ✓ | | |
| MOVIMENTA® | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| MOVIMENTA-VAV® | ✓ | | | ✓ | | ✓ | | |
| VARI-D® | ✓ | | | ✓ | ✓ | ✓ | | |
| LUMINA® | ✓ | | | | | ✓ | ✓ | |
| OMNIA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |



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**Since 1979, Idealair Group has been a trusted partner for all ventilation needs.**

At Idealair Group, we specialise in ventilation, heating, ducting, energy recovery product, and more. Every product in our extensive range is tested and approved to ensure it meets the specified design requirements. Plus, with a complete range of stock readily available at all our branches, we ensure that order collection and delivery are both reliable and convenient.

We pride ourselves on providing tailored, engineered solutions for each customer. Our team of highly trained professionals are committed to offering practical help & advice, while meeting the diverse needs of your projects, from standard to complex applications.


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