



AIR EXCELLENT



Centrotherm



The New Air Management System from Centrotherm

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Dream • Design • Build • Live

A new day in air management has dawned.

Providing the highest indoor air quality has become a major consideration for everyone involved in the construction process - especially the **homeowner**.

The air we all breathe has a tremendous impact on our overall health, and Air Excellent, Centrotherm's new Air Management System provides draft-free, noiseless fresh air supply to living spaces and efficient stale air exhaust from kitchens and bathrooms.

The design flexibility offered by the Air Excellent system will pair with the most creative home designs.

If you can dream it, we can help design it. Our plans will remove all guesswork for the homebuilder, and the residents will be breathing the freshest air in no time.





- Complete and Custom
- Quicker Installs
- Healthier
- Proven Technology
- Design Options

Air Excellent's complete and custom system allows for maximum flexibility during the design process, intuitive installation during assembly, and provides the highest indoor air quality to the homeowners once the system is implemented.

Configure comfort through Air Excellent's precise air management.

Accurate air flow calculations equals the **highest air quality**.

The Air Excellent system works in tandem with an online commissioning tool, which provides detailed information about the system pressure, a full bill of materials, and an exact calculation for the flow restrictor settings per each duct run.

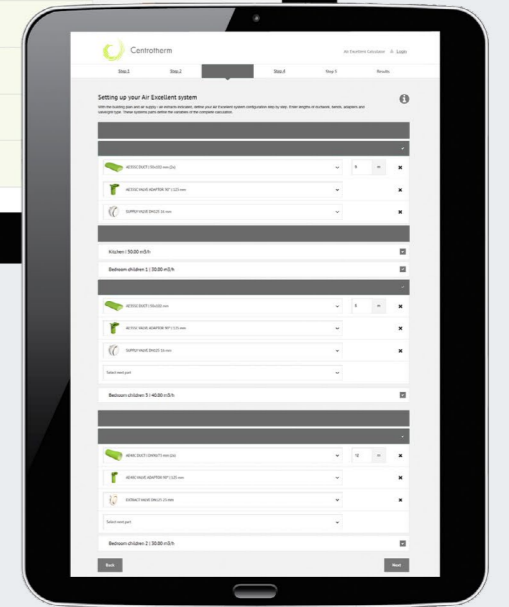
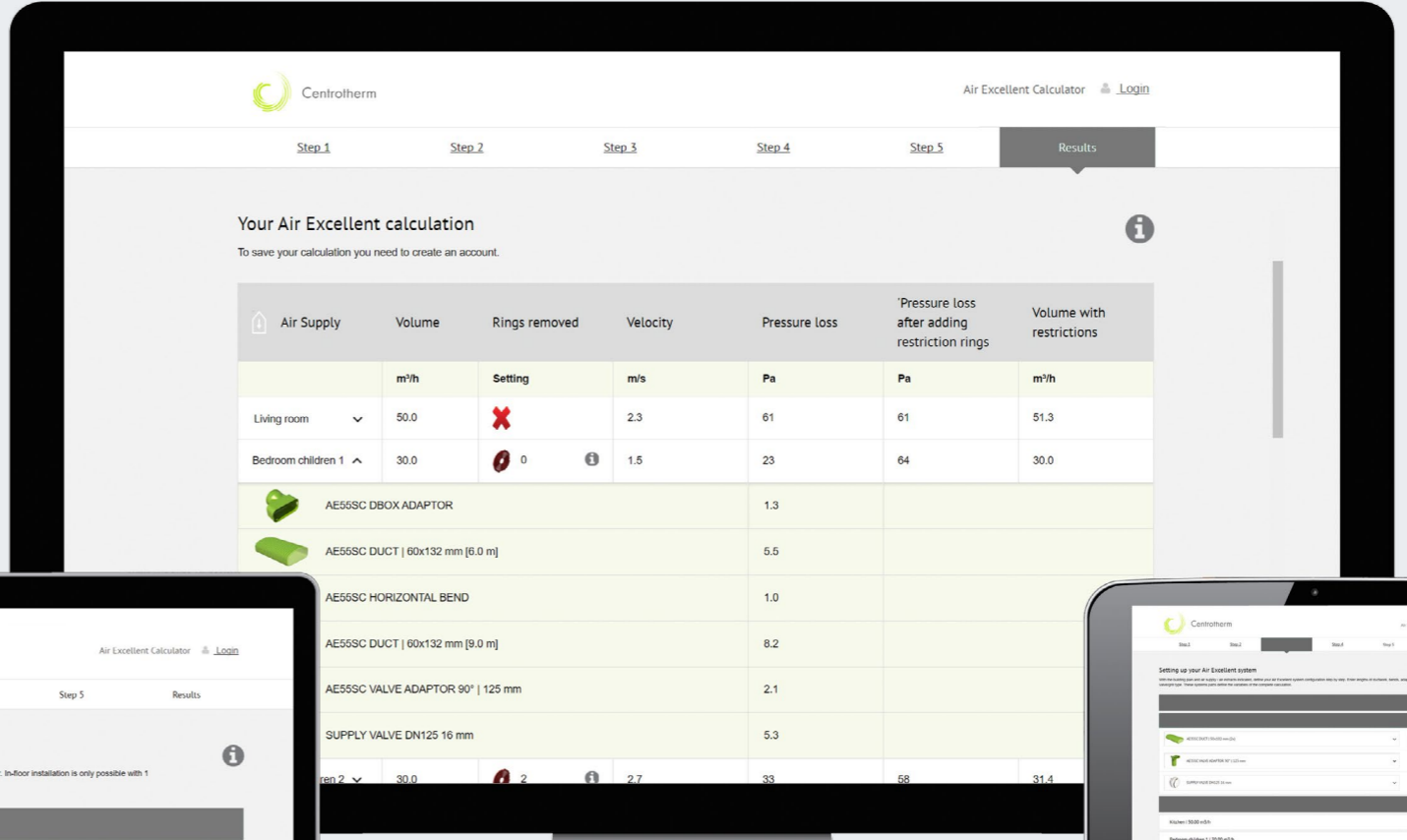
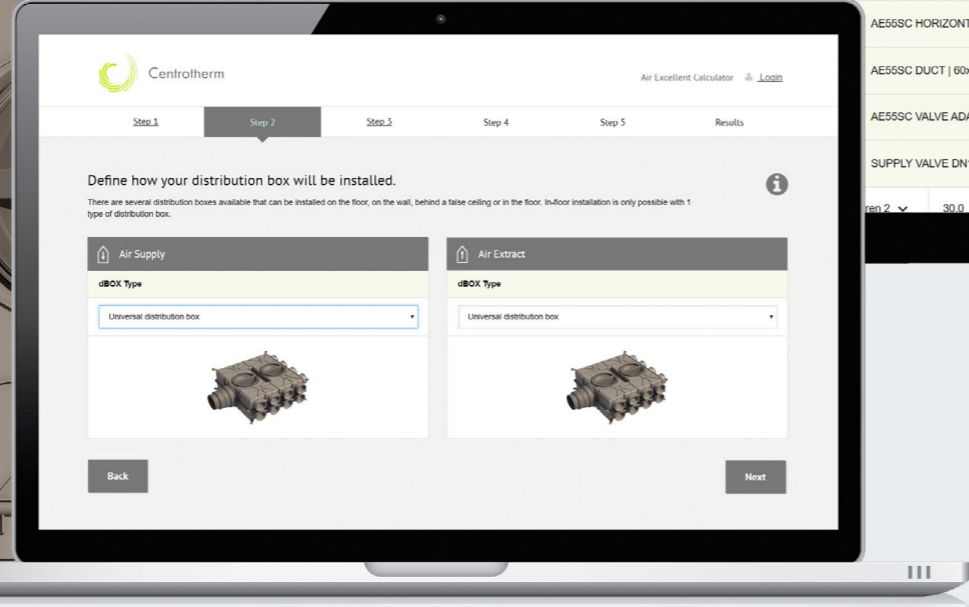
The flow restrictors are an essential part of the Air Excellent system.

Their configuration will help precisely supply the correct air flow to each room of the building.

The Air Excellent commissioning tool calculates how to alter the restrictor. The calculation can be amended on-site if the installed-system differs from its original design.

Configure the air flow precisely

- × Full system configuration
- × Precise restrictor calculation
- × Completely balanced system
- × No drafts or noise



Design Versatility

Ductwork on a roll is easy to lay out, cut to length, and bend around obstacles.

Air Excellent's connections deliver quick, clean, and consistent air-tight seals, which makes Air Excellent ideal for pre-fabricated construction. The ductwork can be suspended under ceilings and run through interior floors and walls.



» Residential
» Commercial

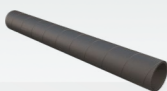

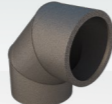


Mass Flow Duct

Draw fresh air from the outside, and return stale air to the appliance through easily-assembled Air Excellent mass flow duct.

These insulated lightweight lengths and elbows quickly come together providing the fresh and return air a smooth path to and from the appliance.

125mm Aerfoam Insulated Duct Accessories

				
188005 - 4" 188006 - 6" 188007 - 7"	188202	188262	188263	188264
Mass Flow Adaptor	Vent Length (2m)	45° Bend	90° Bend	Tee

Accessories Terminations

			
188265	169141	188800	169846
Duct Connector	Bracket	Wall Termination	Roof Termination

Termination Accessories

			
169927	174129	188481	188482
Flat Roof Flashing	Pitched Roof Flashing	Seal (Wall)	Seal (Roof)

Features and Benefits

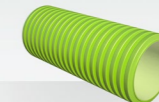
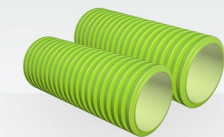
- × Well insulated duct
- × Low pressure loss due to the smooth inner surface
- × Easily constructed and configured
- × Impact resistant
- × Rust proof
- × No tape or glue

HRV / ERV

Flexible Duct Circular

AE34c - Flexible Duct | 201100004190

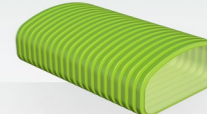
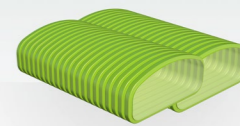


			
1x AE34c		2x AE34c	
Volume [CFM]	Velocity [m/s]	Volume [CFM]	Velocity [m/s]
10.0	1.5	20.0	1.5
20.0	3.0	40.0	3.0

Semi-Circular

AE55sc - Semi-Rigid Duct | 201100003142

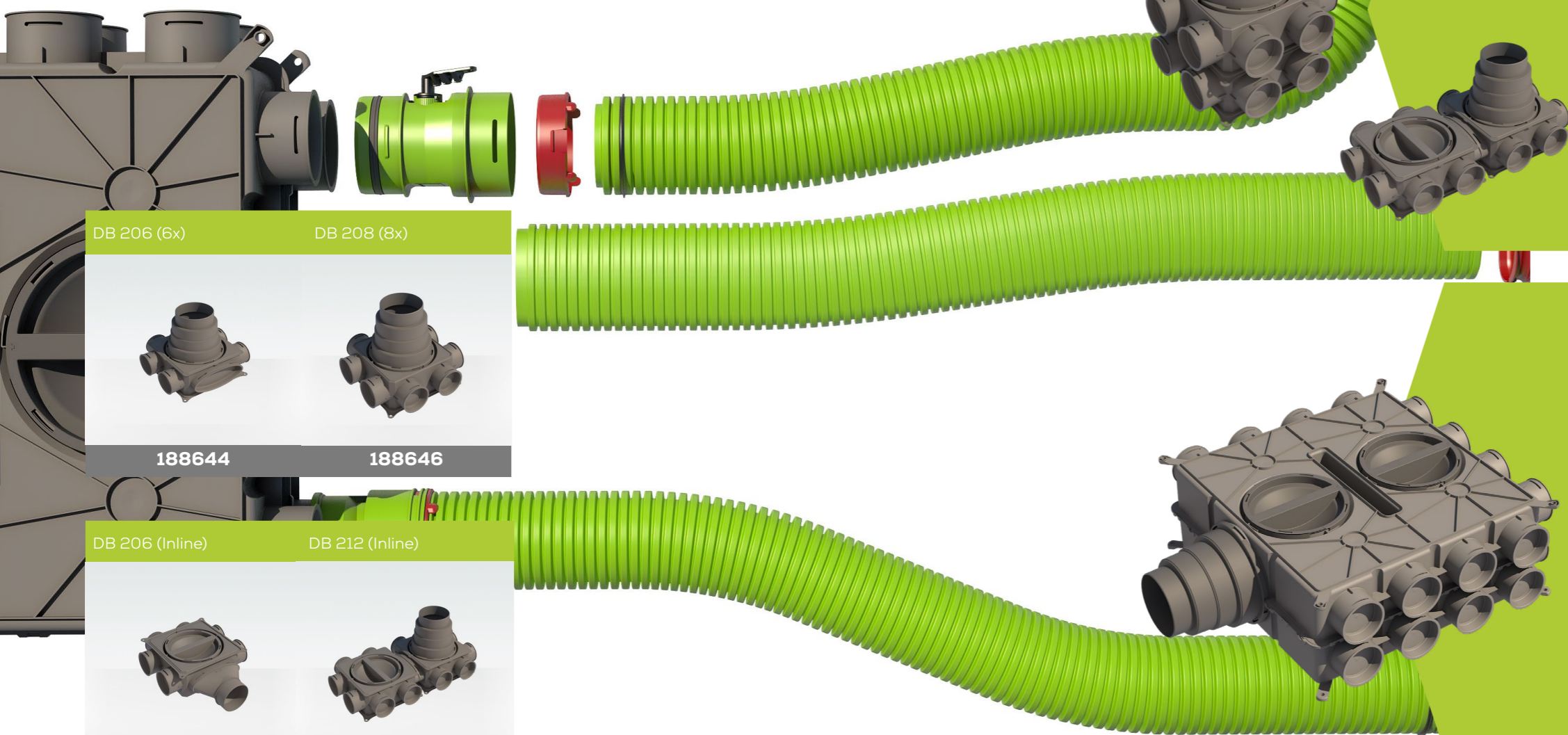


			
1x AE55sc		2x AE55sc	
Volume [CFM]	Velocity [m/s]	Volume [CFM]	Velocity [m/s]
17.0	1.5	34.0	1.5
34.0	3.0	68.0	3.0

More details available in separate technical data sheets

Distribution Boxes

Precisely route the air flow.



DB 206 (6x) DB 208 (8x)

188644 **188646**

DB 206 (Inline) DB 212 (Inline)

188636 **188633**

DB212 V (12x - Vertical) DB216 (16x)

188630 **188631**

Distribution Boxes are the heart of Air Excellent's configurable system.

The Air Excellent Pressure Configurator software will precisely define the quantity of duct runs and the arrangement of restrictor plates.

Centrotherm's distribution boxes are supplied with enough restrictor rings and caps to complete the installation.

The 200 Series Distribution Boxes.

The system consists of basic box configurations, extension kits, and adapters that can be merged to function as one system.

200 Series Distribution Boxes come with caps for half of the DBox duct openings and restrictor rings for every opening - more than enough for any installation.

This management system allows for tailor-made solutions for any orientation while preventing incorrectly balanced installations.

Its small dimensions make it ideal for homes that require lower air volumes or buildings that have limited installation space. Installations do not require separate mounting brackets and can be executed by a single person on walls, floors, and ceilings.

The 800 Series Distribution Box

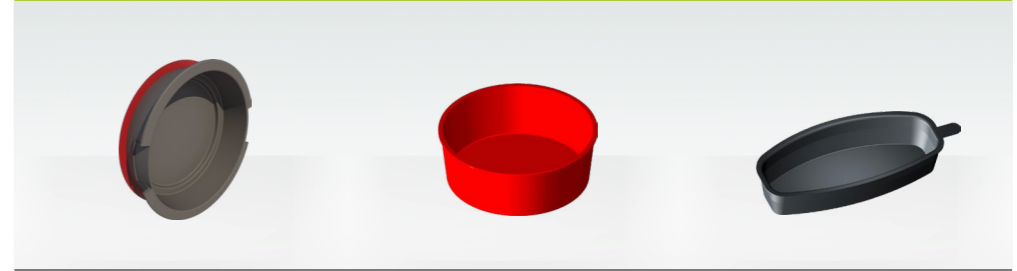
The DB824 Distribution box is a universal "one for all" solution for many installations and can be configured with up to 24 ducts. Connections can be done vertically or horizontally.

800 Series Distribution Boxes come with caps for half of the DBox duct openings and restrictor rings for every opening - more than enough for any installation.

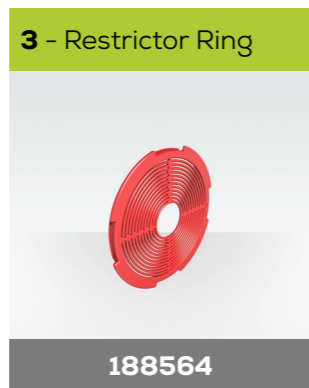
Its larger dimensions make it ideal for buildings that require higher air volumes.

Installations do not require separate mounting brackets and can be executed by a single person on walls, floors and ceilings.

Dust Caps



188563 (D-Box) **188003 (AE34c)** **188004 (AE55sc)**



Complete and Custom

There is a full set of accessories available to make any installation possible, including mixing circular and semi-circular ductwork. Every installation is different and customization offered by Air Excellent is designed to match.



Airtight Seal Kits

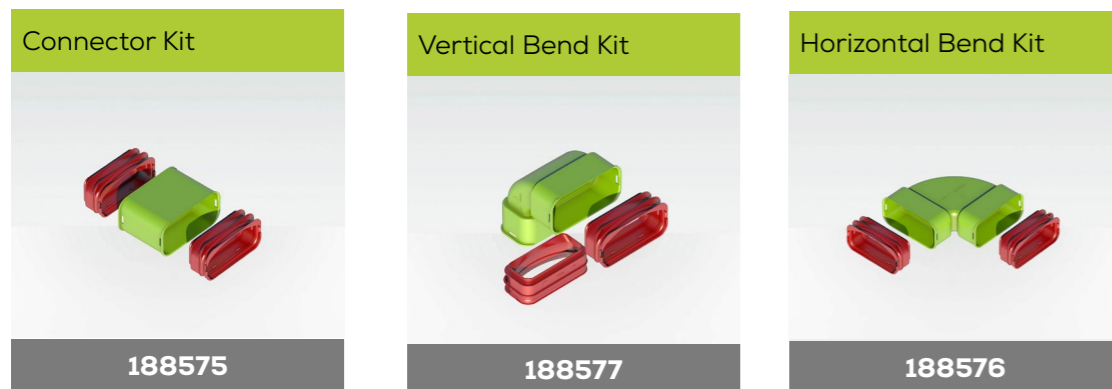
Air Excellent Airtight Seal Kits remove the guesswork when building a ventilation system. Each seal kit comes with the proper quantity of gaskets and connectors providing the components necessary for creating an airtight seal.

They are available for all duct connectors and bends and include the required seal and click rings. Please note that extra seals and click rings must be ordered separately to connect the ducts to the distribution boxes and supply and extract valve adaptors, i.e. 2 per duct run.

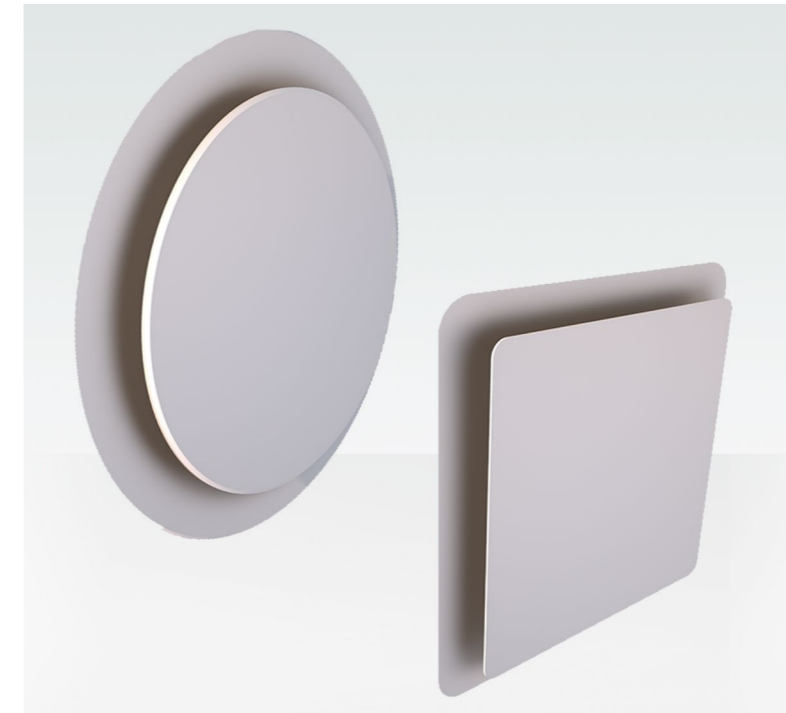
AE34c Bend Kits



AE55sc Bend Kits



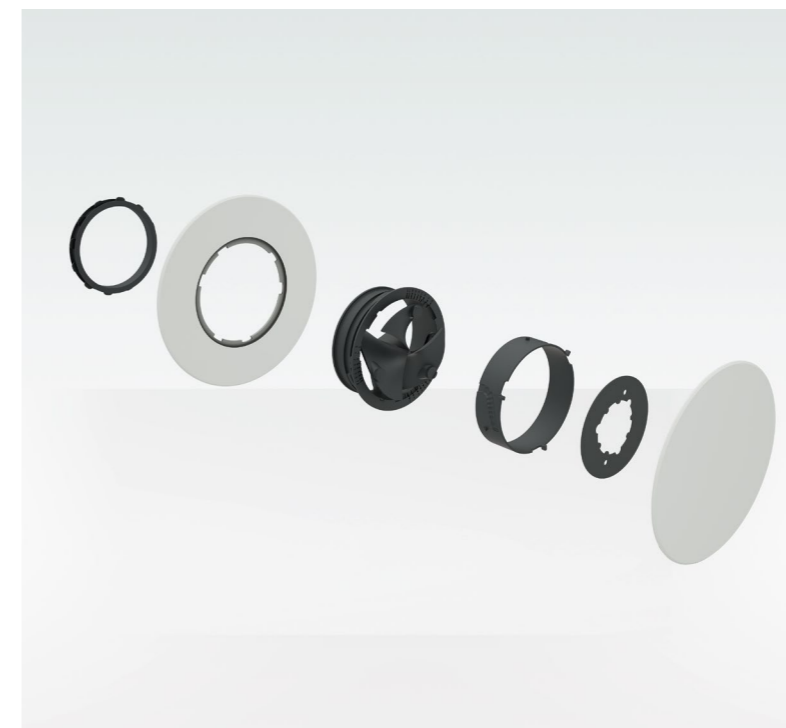
Haelix Terminals



The Haelix is suitable for installation in walls and ceilings and can be combined with Centrotherm's Air Excellent DN125 valve adaptors.

Both round and square Haelix terminals fit to all interior lifestyles due to their elegant and universal design which provides adjustable air flow while remaining aesthetically pleasing.

For the air supply, the integrated fan-shaped air distributor ensures a broad air distribution in the habitable rooms to make maximum use of the Coanda effect.



After commissioning of the Air Excellent system, and when the restrictor rings are set, the Haelix is easily installed by inserting the EPDM sealing ring side into the valve adaptor, warranting a leak free connection.

The Haelix terminal is engineered to easily adjust airflow. This helps to maintain the precise balance of the Air Excellent air management system.

Materials:

The Air Excellent ductwork is made of Polyethylene (PE), which gives the ductwork its characteristic semi-rigid behavior. The accessories, such as the valve adapters, the bends, and the connectors are manufactured of PP to give them stronger rigid properties.

The 2K molded seals belonging to the semi-circular ductwork types include TPE material to warrant flexibility and airtightness. The ductwork source material contains anti-static and anti-bacterial properties. All Air Excellent parts are manufactured using virgin raw materials.



Warranty

Air Excellent Air Management Systems are backed by our industry leading 10-year limited warranty, providing additional security to all of our customers.

Centrotherm was the first North American polymeric manufacturer to offer such an extensive warranty program.

This warranty comes standard with every installation completed by a professional contractor. The warranty provides for material replacement in the case of defective product.

Reliability

Centrotherm carefully inspects all of our vent lengths and fittings from raw material to finished product. All of our manufacturing facilities are ISO certified to ensure optimum quality is achieved every time.

As an industry leader, Centrotherm is committed to research and development. R&D labs are maintained in Germany, the Netherlands and the United States.

Technical Data / Specs

Air Excellent is compliant with the **National Building Code of Canada**

Performance		
Property	Standard	Result
Air Duct Material	National Building Code of Canada <ul style="list-style-type: none"> Section 3.6.5. - Air Duct Systems Section 9.33.6. - Air Duct and Plenum Systems 	Compliant
Working Pressure	TÜV SÜD/TAK 01-2013	- 2000 Pa to + 2000 Pa
Air Tightness	EN 12237 TÜV SÜD/TAK 01-2013	Class D
Pressure Loss	TÜV SÜD/TAK 01-2013	See AE Tech Data Sheets
Microbial Resistance	ISO 22196	Eliminated 99.99% of bacteria after 72 hours
Temperature Range	TÜV SÜD/TAK 01-2013	-20°C - 60°C (-4°F - 140°F)
Flexibility	TÜV SÜD/TAK 01-2013	Bendable without tools
Bending Stiffness	TÜV SÜD/TAK 01-2013	2 meters between supports
Anti-Static Properties	TÜV SÜD/TAK 01-2013	Resistant to static

Dimensions

AE34c Circular Ductwork - 3 Inch

- Outer Diameter - 3" (75 mm)
- Inner Diameter - 2.5" (63 mm)
- Capacity - see Air Excellent technical packet
- Min. Bend Radius - 5.9" (150 mm)

AE55sc Semi-Circular Ductwork - 2.4 x 5.2 Inch

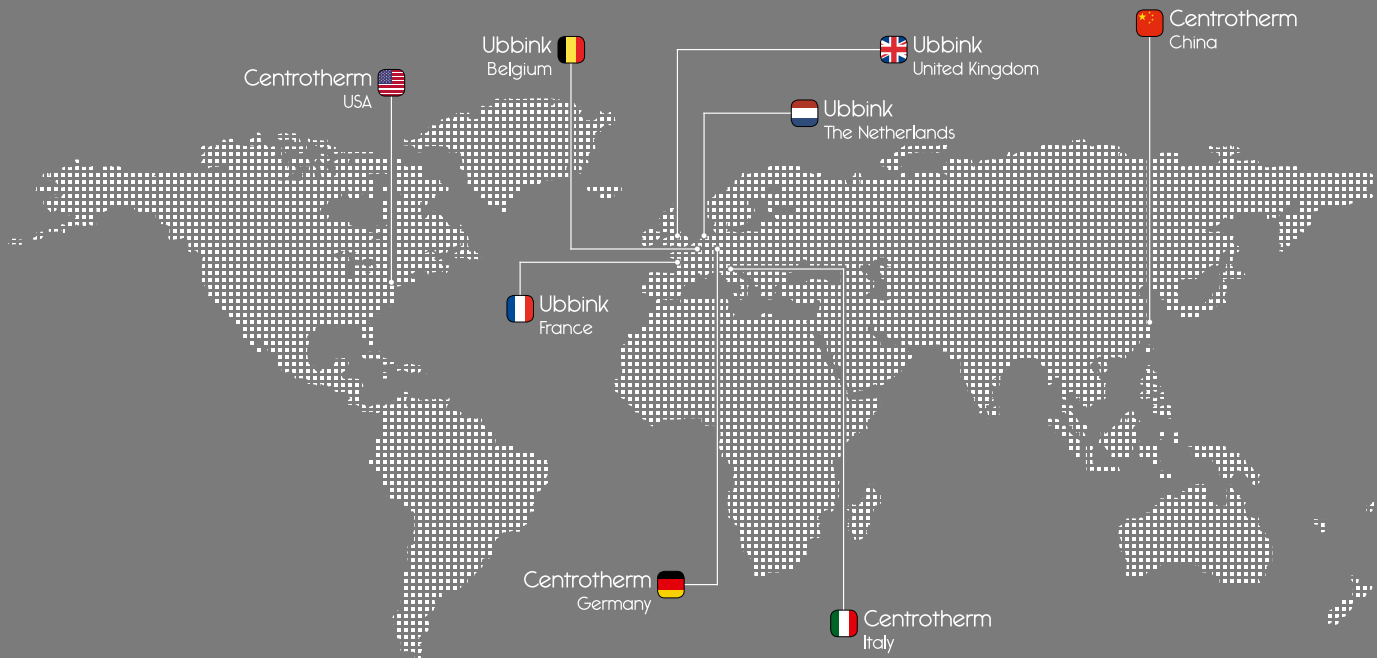
- Width - 5.2" (132 mm)
- Height - 2.4" (60 mm)
- Capacity - see Air Excellent technical packet
- Min. Vertical Bend Radius 7.9" (200 mm)
- Min. Horizontal Bend Radius 15.7" (400 mm)





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AEPC2020