

Geniox

The next generation of air handling units





geniox

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The next generation of air handling units

Geniox – easy to select, install and control

Geniox is more than an air handling unit. It is the heart of a complete air handling solution that integrates everything from design to operation.

You design – or we can do it for you

You know buildings, we know air handling. That is why we made Geniox so easy to design, you can do it yourself. That way, you can be sure each installation is optimised to each building's requirements. Simply download our free design software SystemairCAD and start configuring your Geniox units. Or leave it all to us. We are happy to do it for you.

Easy to control

It is easy to operate and control Geniox. Using Systemair Access, the complete control system for Geniox, you do not have to be a ventilation expert to create the perfect indoor climate. The intuitive Systemair Access NaviPad control panel lets you control one or more Geniox units from a single device.





Geniox

The air handling unit

This modular platform is based on standardised sections that fit seamlessly together – making numerous configurations possible.

Geniox is an integrated, intelligent ventilation solution where innovation, energy saving, sound proofing and sustainability are key.

SystemairCAD

The design tool

Geniox is easy to design and configure using SystemairCAD, a design program which ensures that every air handling unit is adapted for the actual conditions of each building. The software is free, easy to download, and it is easy for you to design the optimum Geniox unit yourself.



Systemair Access

The control system

Systemair Access is a complete control solution for Geniox air handling units. It allows operators to optimise ventilation performance. It makes the advanced technology of Systemair's air handling units easily accessible, helping you to create the perfect indoor climate.



GENIOX

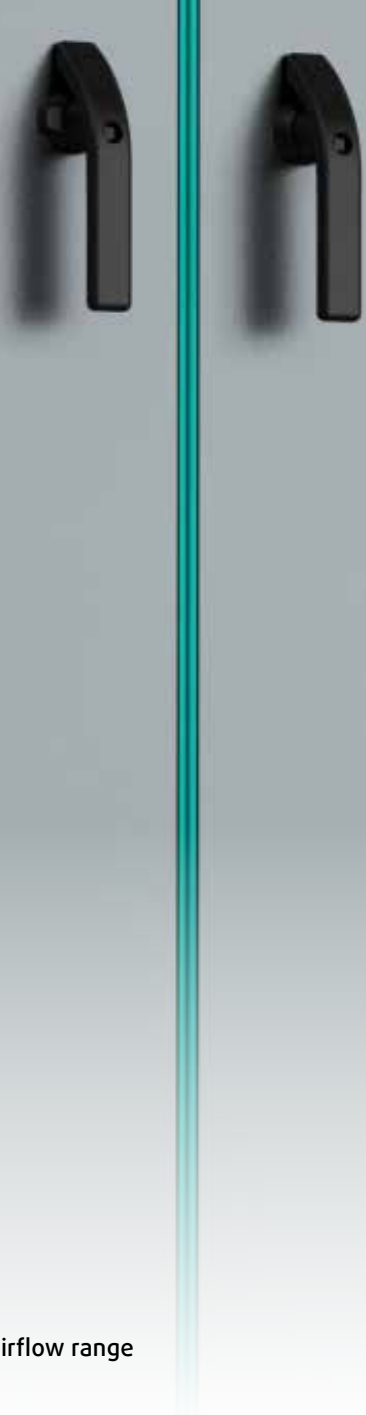
Designed for intelligent ventilation

Geniox comes with a wide range of intelligent functions – smart enough to be at the heart of any modern ventilation system. Geniox air handling units are available for airflows between 750 and 110,000 m³/h (0.2–30 m³/s). Thanks to the platform's flexibility, we are able to offer an optimized solution regardless of your project or industry.

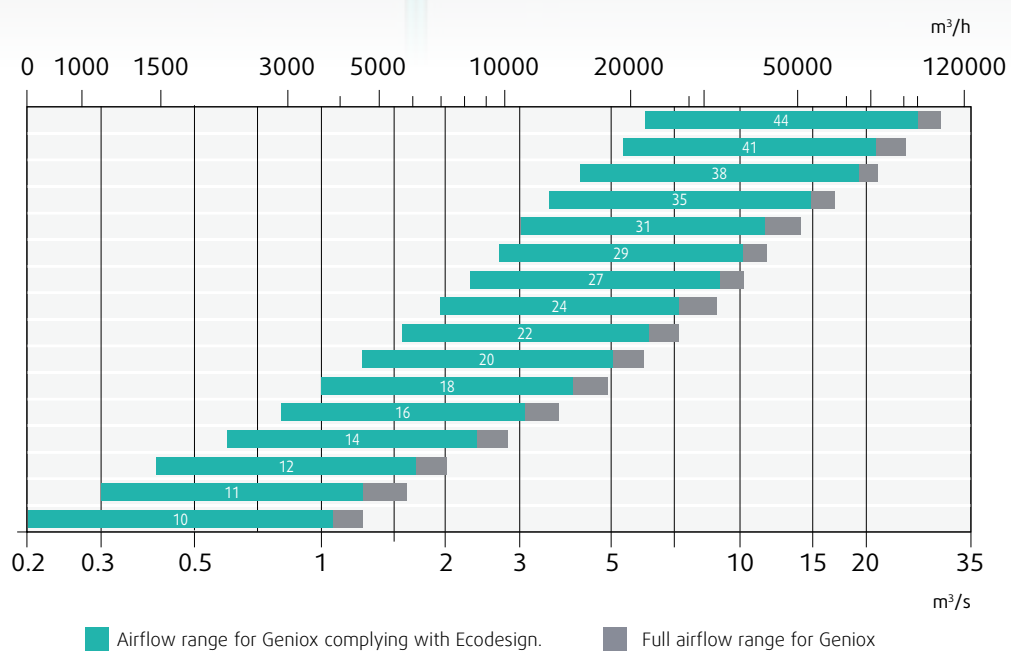
Geniox can be fully configured using SystemairCAD. We can do it for you, or you can easily do it yourself – the software is free to download from our website. In SystemairCAD, you can optimize your Geniox unit to each building's actual operating conditions, while ensuring the lowest possible energy consumption. When you have found your match, just insert the resulting CAD file into Revit, MagiCAD or other commonly used program.

Geniox is certified by Eurovent, offering you the security of knowing that your air handling unit will perform according to the technical specifications.





Geniox sizes and airflow range



A framework for energy efficiency

Attention to detail

Geniox is an integrated, intelligent ventilation solution where innovation, energy saving, soundproofing and sustainability are key.

We have prioritised recyclable materials and future-proof solutions. Geniox is a stable air handling unit with reduced thermal bridges thanks to thick insulation and airtight doors and joints. Geniox is certified by Eurovent with very high classifications.

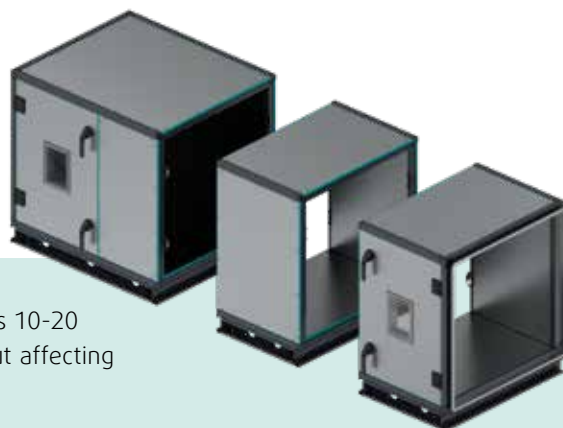
Minimal energy loss and durable design

Casing. The 60 mm thick insulation minimises heat loss and thermal bridges to save energy and ensure the highest operating efficiency. It also reduces the sound from the unit. This provides freedom of choice for the placement of the unit. The panels are available in ZM310, corrosion class C5 or pre-painted steel sheets in light grey RAL 7035 or black RAL 9005, corrosion class C4. The black color is offered for roof installation.

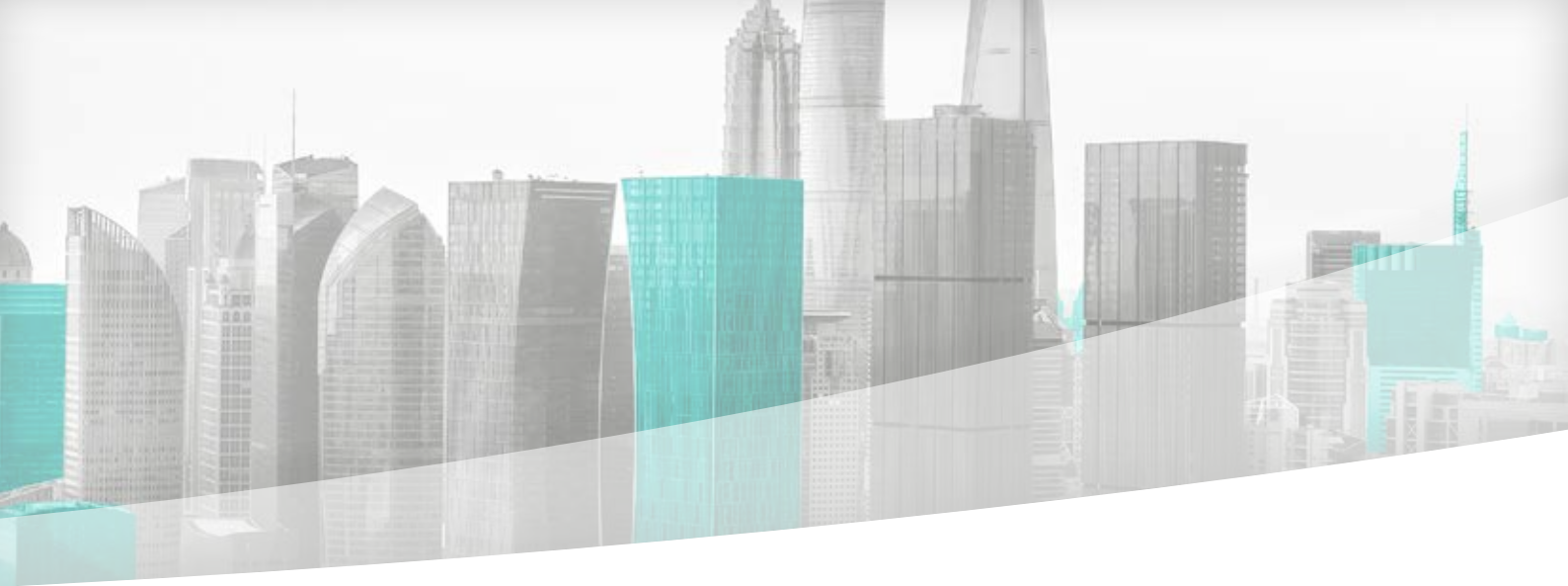
Handles and hinges. The handles and hinges are designed exclusively for and by Systemair. In addition to a nice feel and a practical solution with easy disassembly, they ensure an airtight solution with easy access for maintenance. The solid handles protect against accidents, as you cannot climb on them. All doors can be opened from inside in accordance with the Machinery Directive.

Inspection window. The large windows, designed exclusively for and by Systemair, enable easy inspection.

Base frame. The base frame can be mounted in the factory or delivered on site. You can choose between a full length base frame or have it divided into sections. The base frame can be ordered with holes for handling with fork lifts. SystemairCAD and the Geniox Catalogue will give you the full overview of options.



Divide Geniox sizes 10-20 in sections without affecting the length.



Casing

Official model box EN 1886 results

- Thermal bridging Class TB2
- Thermal insulation T2
- Deflection Class D1
- Leakage Class L1 (M)
- Flexible selection of materials and surface treatments (pre-painted or ZM310)

Directives

Geniox is compliant with the following directives:

- Machinery Directive 2016/42/EC
- Ecodesign Directive 1253/2014
- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- Pressure Equipment Directive 2014/68/EU

EC fan

New EC fan with high efficiency IE5 motors and impeller with airfoil blades for high efficiency and low noise generation.



#HygienicByDesign

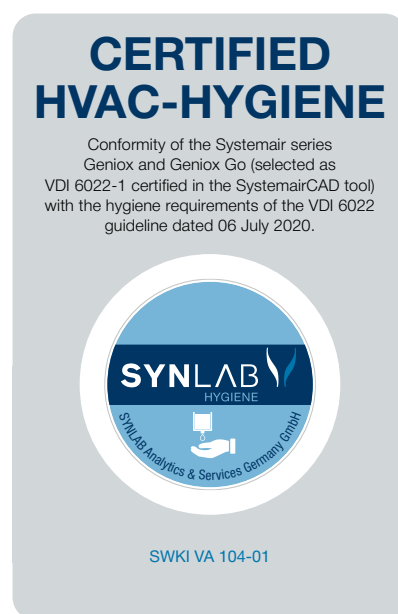
Geniox is hygiene-friendly

Systemair believes that all air handling units (AHUs) should be **#HygienicByDesign**. We are of the firm opinion that hygienic measures should be a standard offering in all general ventilation units.

#HygienicByDesign in a nutshell

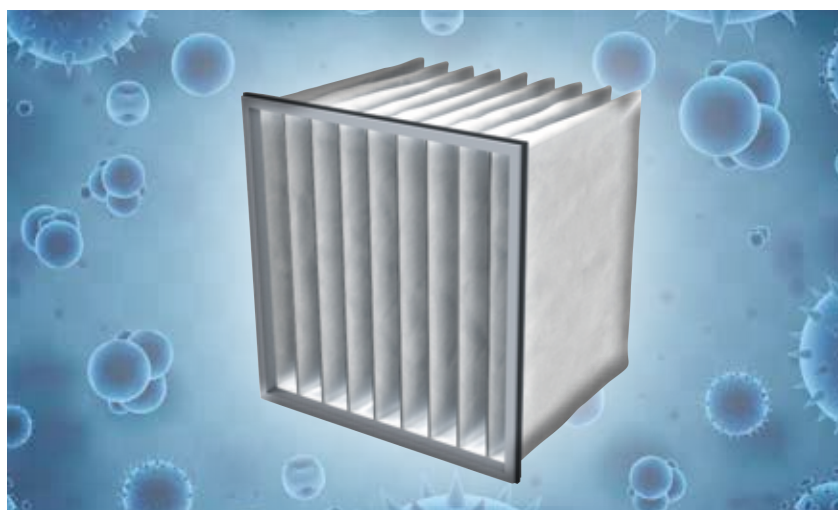
Our #HygienicByDesign approach provides hygienic operating conditions, peace of mind and unmatched flexibility when it comes to meeting specific hygienic demands in projects. In short:

- All Geniox air handling units are hygiene friendly, designed and built for easy cleanability and with hygienic materials that ensure hygienic conditions in the AHU over time.
- The entire Geniox range can be configured into a Eurovent HAHU or VDI 6022-1 certified unit in a straight-forward, automated manner using the SystemairCAD selection software.
- Geniox AHUs also offer up to 2 stars in the Eurovent Hygienic AHU rating, which is comparable with VDI 6022-1 and similar national requirements.



Optional Deltri+ virucidal air filters

Virucidal air filters with efficiency ePM1 90%, capable of neutralising or destroying viruses – including SARS-CoV-2, as tested by the Luxembourg Institute of Science and Technology (LIST) and an independent laboratory. Proven efficiency with Eurovent Certified Performance A+ energy class rating.



Simplify your choice

Geniox Go and Geniox Core

Enjoy the energy efficient performance of a Geniox with a small footprint and fast delivery time.

Make your life easier! Geniox Go and Geniox Core are pre-configured standard air handling units in most common configurations. Based on the Geniox design platform they are adapted to the needs of different geographical markets.

A robust design ensures a long cost and energy efficient lifespan, delivering safe, clean ventilation air. At end of life, more than 90% of the total weight can be recycled and reused.

Whether you're a consultant, installer or building owner, Geniox Go and Geniox Core are a convenient choice, offering a high-quality, high-performance air handling unit with a competitive price point.

Simple to choose, install and run

Geniox Go and Geniox Core offer you everything you would expect from Systemair and Geniox, but even easier. With these smart, simple solutions, you specify your basic requirements, and we deliver a pre-configured air handling unit to you - it's fast and easy.

SystemairCAD will optimize your unit by selecting the most suitable heat exchanger and fan. You can freely place dampers, heating and cooling coils, and sound attenuator.

Small footprint, easy transportation

Geniox Go and Geniox Core offer smart designs that provide the smallest footprint. Components such as dampers and coils can be located externally, giving you flexibility where space is limited. The units can be transported in sections through standard door openings. For smaller openings, order units prepared for "knock down" on site.

In a nutshell, you will get a standardised air handling unit with smart flexibility and a small footprint.



Geniox Go:

12 sizes with airflows:
750 - 38,000 m³/h (0.2 - 10.6 m³/s).

Enjoy Geniox quality,
delivered pre-configured,
quickly and easily.

Pre-configured

Hand over the configuration work to Systemair. Specify your requirements and we deliver a ready-to-use air handling unit.

Geniox quality

We only use high-efficiency, quality components.

Small footprint

All the essential qualities in a compact design. Integrated features – or externally located dampers, controls and heaters.

Systemair Access

A complete control solution – advanced technology made easily accessible with a user-friendly interface and navigation.



Geniox Core:

7 sizes with airflows:
750 -17,500 m³/h (0.2 - 4.9 m³/s).

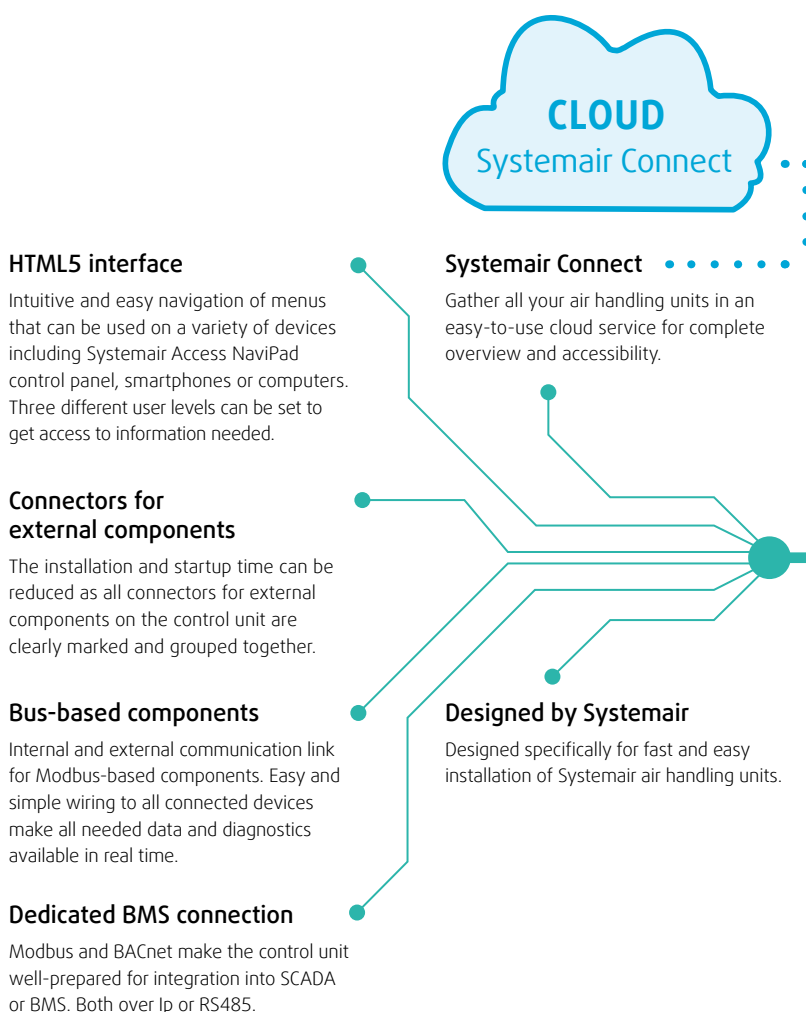
Systemair Access control

Create the perfect indoor climate

At Systemair, our goal is to keep things simple for our customers and we believe that advanced technology should be accessible for everyone. Now we have combined the strong heart of a Geniox with a sharp mind – Systemair Access.

Systemair Access is a complete control solution for air handling units, making advanced technology easily accessible – helping you to create the perfect indoor climate.

Inspired by the advanced simplicity of today's smartphones, we have developed a logical and intuitive menu structure. It is now easier than ever to navigate and utilize the full functionality of Systemair air handling units.



Systemair Access
made it simple to
connect, configure
and control our air
handling unit.

Systemair Access
Control Unit



Systemair Access NaviPad

Just click to control Geniox

Access NaviPad is an ergonomic and robust designed control panel, developed specifically for industrial environments.

You are in control

You will very soon become familiar with Access NaviPad's graphical user interface. You monitor and control your air handling unit by navigating the easy and intuitive menu structure with icons on your touchscreen. Thanks to Access NaviPad's user-friendly interface, it is now easier than ever to manage Systemair air handling units.

Going pro!

You do not need to be an expert to get the most out of your air handling unit. We have made functions and features easily available, allowing you to make optimal use of your air handling unit.

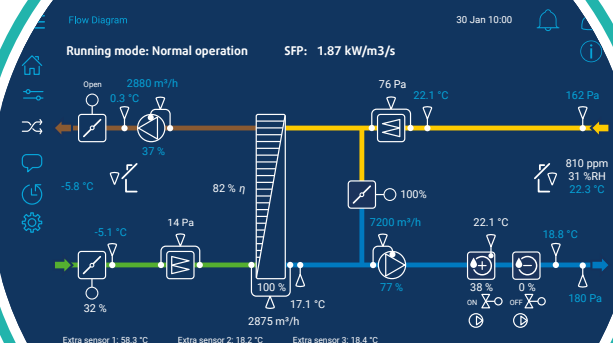
Create the perfect indoor climate

Systemair Access and Access NaviPad will help you optimise the air handling unit performance so people can breathe easy in a great indoor climate. Using your air handling unit more effectively will help you reduce energy consumption and save money.



Geniox with Access

Access NaviPad comes as standard with Systemair's Geniox air handling units.



You are in full control

Access NaviPad puts you in control of your air handling unit – at all times. Should an error occur, you will immediately be notified by an alarm. Press the alarm icon to see the list of active alarms including the alarms history.

Energy insight in a glance

With the Energy Insight function, it is easier than ever to monitor energy usage for fans (SFP value) and water heater as well as recovered energy for heat exchanger.

It is easy to use

We were inspired by modern smartphones when developing Access NaviPad's user interface. Just click on an icon on your touchscreen to activate a function, change a setting or adjust a value. You will quickly learn how to control your unit as you go, thanks to Access NaviPad's intuitive graphical user interface.

Live data

It is easy to monitor and adjust your air handling unit's performance. Relevant operating data and flow charts are easily available in real time and can be changed with a few clicks. You can view the status and adjust the settings of your air handling unit.

Robust design

Access NaviPad is developed specifically for industrial use – simple to use, yet robust and durable in design. Drop tested and IP54 classified, your Access NaviPad will fit in most heavy-duty installations. A frame made of high-friction rubber will keep it firmly in your grip as you manage your air handling unit.

See all units at once

Press the Home button to view the system overview dashboard. A LED-light will indicate current status. This provides access to a system overview dashboard for all connected air handling units, giving the operator control of several units from one control panel.

Detachable

Access NaviPad* is a robust control panel, designed specifically for industrial usage. It is mounted on the air handling unit or on the wall, easy to detach for handheld use.

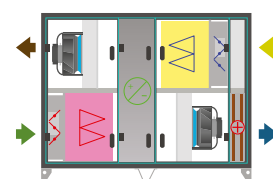
*Connected via 3 m flat cable



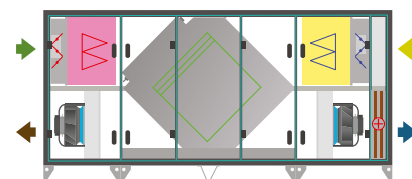
Quick guide to Geniox

Geniox has endless variation possibilities.
This page lists some common configurations,
suitable for most applications.

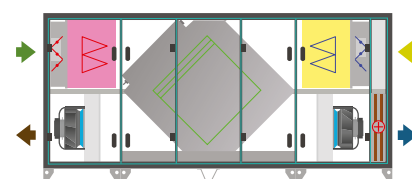
Rotary heat exchanger																
Size	10	11	12	14	16	18	20	22	24	27	29	31	35	38	41	44
Width	1082	1182	1282	1482	1682	1882	2082	2282	2482	2782	2982	3182	3482	3482	4082	4082
Height*	1082	1182	1282	1482	1682	1882	2082	2282	2482	2764	2964	3164	4000	4600	4600	5200
Length	2282	2282	2282	2282	2282	2282	2382	2546	2746	2946	3146	3146	4646	4746	4646	4646



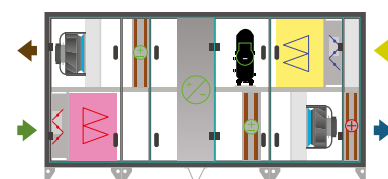
Counter flow heat exchanger							
Size	10	11	12	14	16	18	20
Width	1082	1182	1282	1482	1682	1882	2082
Height*	1082	1182	1282	1482	1682	1882	2082
Length	3182	3382	3382	3482	3782	3782	3982



Cross flow heat exchanger													
Size	10	11	12	14	16	18	20	22	24	27	29	31	35
Width	1082	1182	1282	1482	1682	1882	2082	2282	2482	2782	2982	3182	3482
Height*	1082	1182	1282	1482	1682	1882	2082	2282	2482	2764	2964	3164	3782
Length	2982	3082	3182	3382	3582	3782	3782	4446	4746	4946	5446	5446	6846



Integrated reversible heat pump									
Size	10	11	12	14	16	18	20	22	24
Width	1082	1182	1282	1482	1682	1882	2082	2282	2482
Height*	1082	1182	1282	1482	1682	1882	2082	2282	2482
Length	3282	3282	3282	3282	3482	3482	4082	4346	4546



The dimensions are a guideline only. Accurate values and combinations are calculated in SystemairCAD.

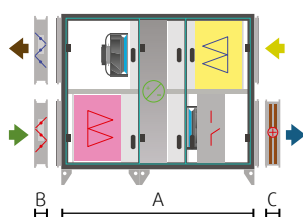
* Height excl. legs/base frame. Units can be delivered with a 118 or 218 mm high baseframe.

Units can be delivered including coolers, attenuators, humidifier etc. For both indoor and outdoor application.

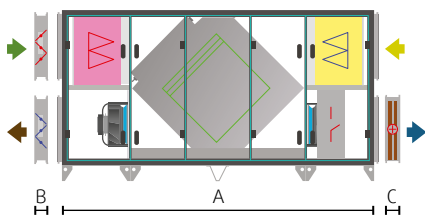
Exhaust air  Extract air 
Outdoor air  Supply air 

Quick guide to Geniox Core

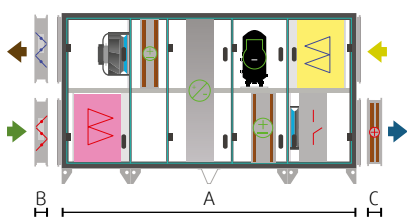
Geniox Core is a pre-configured air handling unit with small footprint. Below are the typical configurations for Geniox Core.



Rotary heat exchanger							
Size	10	11	12	14	16	18	20
Width	1082	1182	1282	1482	1682	1882	2082
Height*	1082	1182	1282	1482	1682	1882	2082
Length (A)	1682	1682	1782	1782	2082	2082	2082
Length (B)	140	140	140	140	140	140	140
Length (C)	210	210	210	210	210	210	210



Counter flow heat exchanger							
Size	10	11	12	14	16	18	20
Width	1082	1182	1282	1482	1682	1882	2082
Height*	1082	1182	1282	1482	1682	1882	2082
Length (A)	2482	2682	2782	2882	3382	3382	3582
Length (B)	140	140	140	140	140	140	140
Length (C)	210	210	210	210	210	210	210




Integrated reversible heat pump							
Size	10	11	12	14	16	18	20
Width	1082	1182	1282	1482	1682	1882	2082
Height*	1082	1182	1282	1482	1682	1882	2082
Length (A)	2682	2682	2882	3082	3182	3282	3882
Length (B)	140	140	140	140	140	140	140
Length (C)	210	210	210	210	210	210	210

A = Geniox Core
B = Damper
C = Heating coil

Exhaust air Extract air
Outdoor air Supply air

The dimensions are a guideline only. Accurate values and combinations are calculated in SystemairCAD.
* Height excl. legs/base frame. All indoor units are with 118 mm feet or base frame. Forklift holes are available in base frame.



Be in control.
Configure your Geniox unit
exactly the way you want it to be.

Configure Geniox with

SystemairCAD

It is easy to configure Geniox using SystemairCAD, a design tool which ensures that every air handling unit is customized for the actual conditions of each building.

When you configure your air handling unit, SystemairCAD does a number of calculations for you. Once you are finished, you can save all technical documentation as a pdf file on your computer.

The documentation contains e.g. technical data, drawings, calculation results, charts and a complete descriptive text that you can use in your specification document.

The drawing, which is made to scale, can be exported to other CAD or BIM programs as DXF or DMR files. Project files can be opened directly in AutoCAD or in Revit using the Systemair plug-in program MagiCAD.

You can also make LCC calculations, print to 3D-dxf files or print "live" air handling units to MagiCad or Revit.

SystemairCAD can be downloaded from Systemair's website.

You design yourself

You can design your Geniox air handling unit yourself using SystemairCAD. The program calculates and generates the necessary documentation.

Everything is double-checked

SystemairCAD notifies you of any irregularities in your design, and our experienced staff checks that everything is in order before your unique air handling unit is produced.

Straight to manufacturing

Your drawings are ready to go straight into manufacturing at one of Systemair's plants, reducing administration and delivery times.



Systemair worldwide



3

Distribution centres

50+

Countries with Systemair sales office



Always close
to you!

