

CUSTOMAIR®



PRODUCT CATALOG

CAHU Customair Air Handling Unit

At Customair, we have over 20 years of experience in the market, offering the integration of products for air quality systems that help ensure business continuity across various sectors.

Customair Equipment

We manufacture equipment specialized in high-quality air filtration and conditioning, with precision and durability. Using our selection software, we tailor solutions to the specific needs of each client regarding design, components, delivery times, and costs.



CERTIFICATIONS



UL certification available depending on customer requirements





Specialized Air Filtration and Conditioning Equipment of **HIGH QUALITY, PRECISION & DURABILITY**



Cutting-edge Technology

Designed with the latest technological advancements.



Air Purification

Effectively removes dust particles, allergens, and air contaminants, ensuring a healthy environment.



Customizable Control

Easily adjust the temperature and fan speed.



Energy Savings

Designed with a highly efficient approach, offering long-term energy cost savings.



Easy Installation & Maintenance

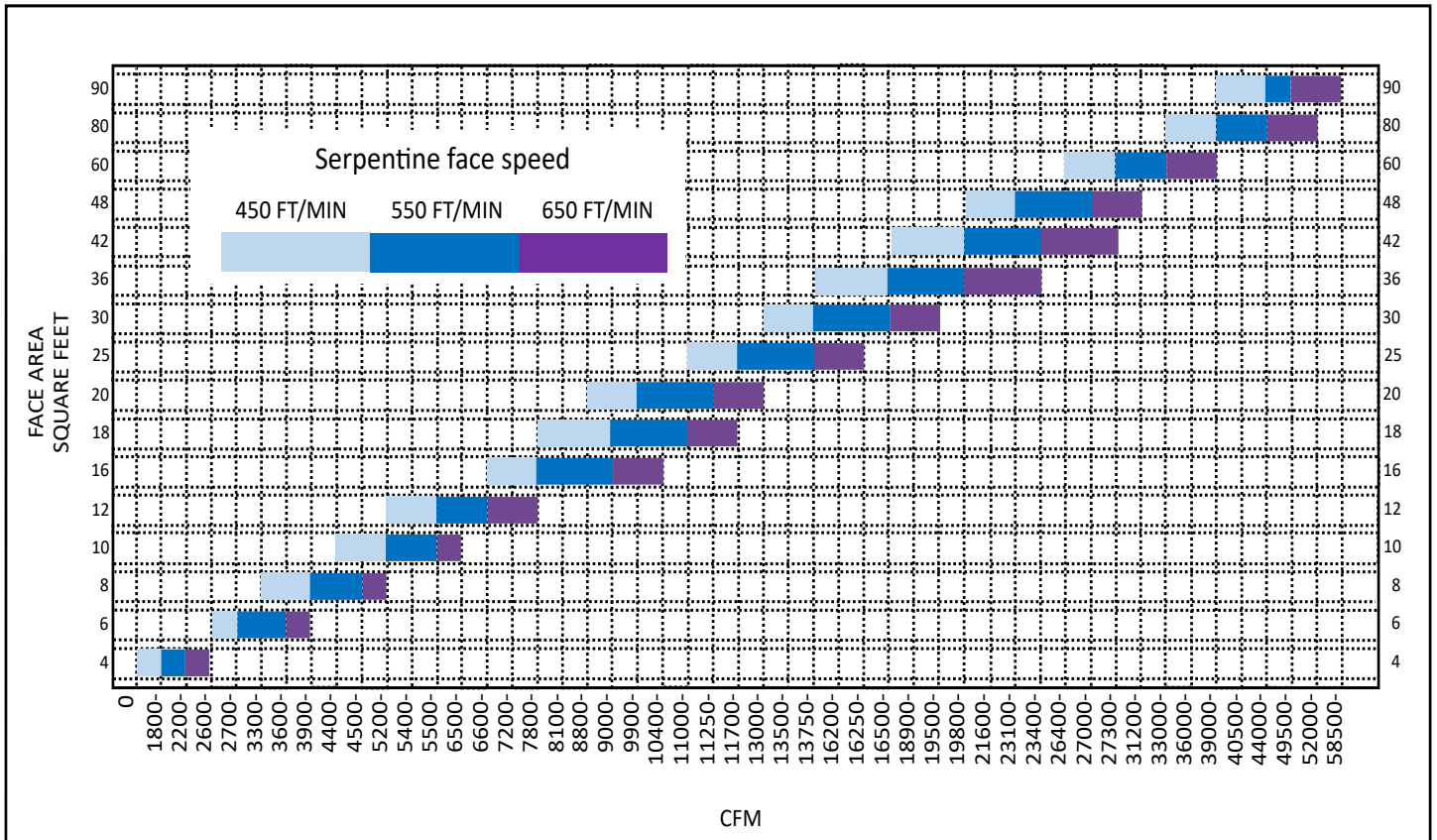
No worries about complex technical procedures.

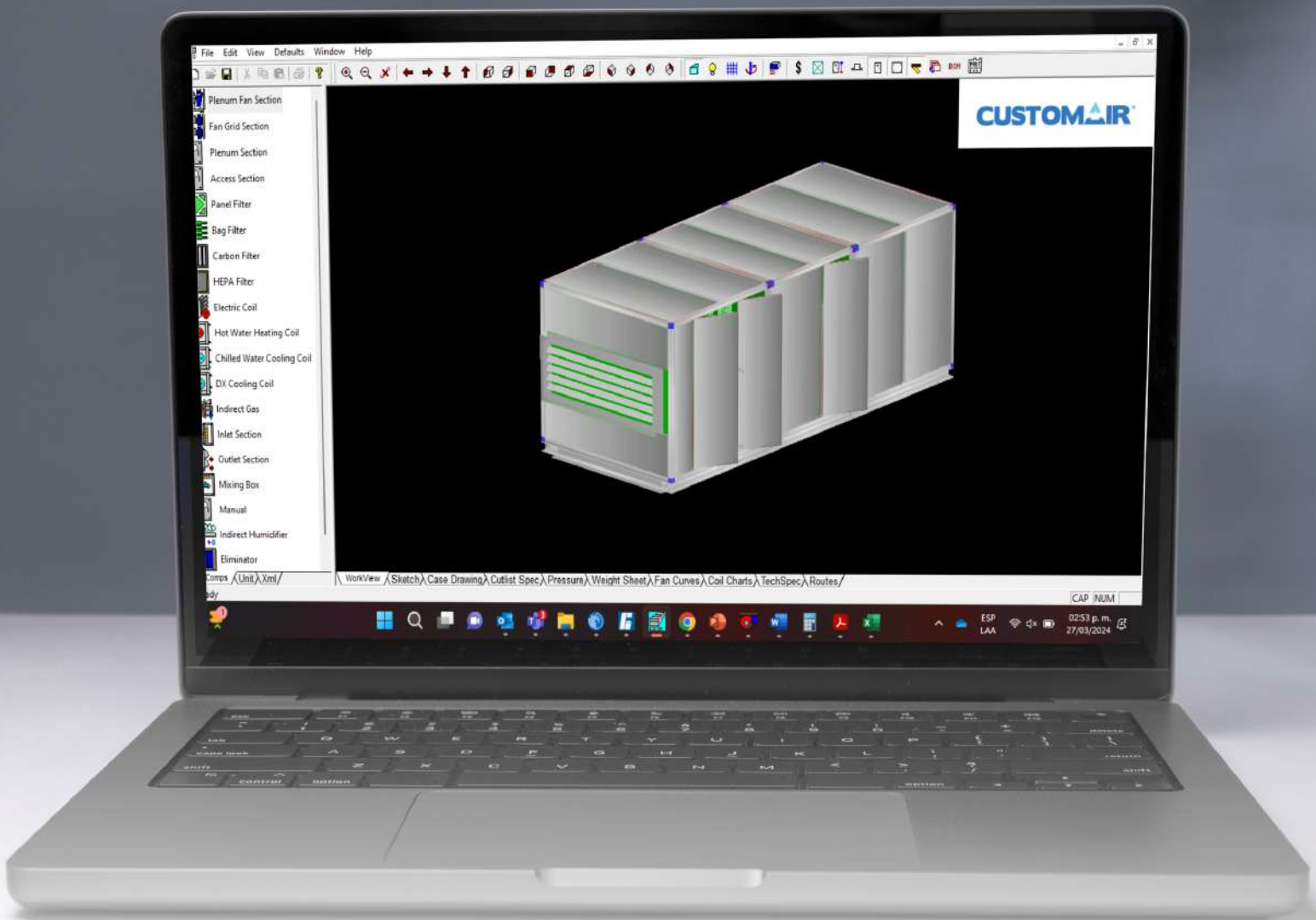
Scan or click to play
the video





EQUIPMENT CAPABILITIES





Customair Equipment Selector

Selection Software

Our selection and design software enables you to easily and quickly calculate unit configurations including mixing box, filtration stages, cooling/heating and ventilation sections, among others. You can view equipment dimensions during the selection process and divide the unit according to the available installation space.

You can also choose the material and thickness that best fits your project needs.

At the end of the configuration process, you'll get:
Dimensional drawings, fan and heat exchanger performance curves, Submittals with technical information such as motor power, filters, pressure drops, and noise levels.





EQUIPMENT COMPONENTS

Control Dampers



For manual operation, or by actuator. Closing/ opening or modulating



Polyamide hinge suitable for exterior environments



External door handle with gradual closure



Joint elements suitable for exterior

Opening/ Closing



Electric resistance



For optimal control of interior temperature and moisture conditions

Coils



Heat interchangers for direct expansion systems, or chilled water. Could be built with copper tubes, aluminum and copper fins

Condensate Pans

Built with stainless steel that allows cleaning and durability, a slanted design ensures a slope for drainage

HEPA Filters



Volatile particle retention system

Fan/motor



Centrifugal fan with direct coupling

EC Fans

NEMA premium efficiency motor

Variable Frequency drive to modulate motor RPMs





Frame



Extruded aluminum profiles



Aluminum corners and fittings

Particle Filters



Particles filters from MERV 1 to MERV 20

Panel

Double-wall, thickness 25 mm or 45 mm. Built with CRS laminate, galvanized steel, aluminum and stainless isolated with D12 expanded polystyrene



Gauge manifold



For filter saturation readings

Moisture Removal

For different liquid atomization grades

Gas Filters



Retention of unpleasant odors, toxic and corrosive compounds or any gaseous pollutant



Louvers

Adapt to suit each requirement according to process functionality and the environmental, corrosive, and thermic variables of the project

Base

Built in CRS C channel, Galvanized Steel, Aluminum and Stainless



TEMPERATURE CONTROL

CAHU's temperature control can be done in two ways:

- Direct expansion, our control system has the capacity to maintain the conditioning area design temperature, through a condensing unit with cooling stages (digital by steps) and,
 - Chilled water, by means of proportional control is commanded to open and/or close the chilled water valve, depending on the signal received from the discharge temperature sensor.
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HUMIDITY CONTROL

The humidification is done using resistive humidifiers. But depending on the application, it could also be gas and vapor-vapor type. These can be controlled by an ON-OFF signal or proportional type.

Installed directly in the CAHU: without the need for an electronic compartment or distribution piping.

- Automatic drainage system
 - Protects against floods.
 - Mechanical pieces designed to simplify usage and maintenance
 - Stainless steel electrodes
 - Electrical panel separated from the hydraulic sector
 - Microprocessor Controller with LED user interface.
 - Connection for protocol RS-485 for remote control in MODBUS mode.
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PLUG & PLAY SOLUTIONS

Control solutions customized to the requirements of each customer. Our systems are so flexible that for control, they could be integrated from simple applications to much more complex control solutions.

CORROSIVE / EXPLOSIVE GAS MONITORING

For industries where severe environments affect the external air, or where the processes emit corrosive and/or explosive gases, CAHUs provides sensors with the latest technology for gas monitoring control. For such purpose, we program our system controls with emergency actions (warnings and alarms, both visuals and auditive) that will act in case of moderate or high concentration levels. This is with the aim to protect the installed equipment inside the conditioned areas; but mainly and far more important, to safeguard the life of the operators.

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CUSTOMAIR®

Your peace of mind and the safety of
your equipment are our commitment.

