

SODISTRA

YOUR AIR HANDLING SOLUTIONS



100%
CUSTOM MADE



ULTRA
CLEAN



HIGH PRODUCT
LIFE SPAN



ENERGY
SAVING



ALTOP

international



YOUR AIR HANDLING SOLUTIONS

WHY SHOULD YOU CHOOSE SODISTRA?



ULTRA CLEAN



FIRE RATING M1



CORROSION RESISTANCE



ISOTHERMAL PRODUCT



ENERGY SAVING



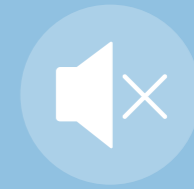
LONG PRODUCT LIFE SPAN



FOOD CONTACT SUITABLE



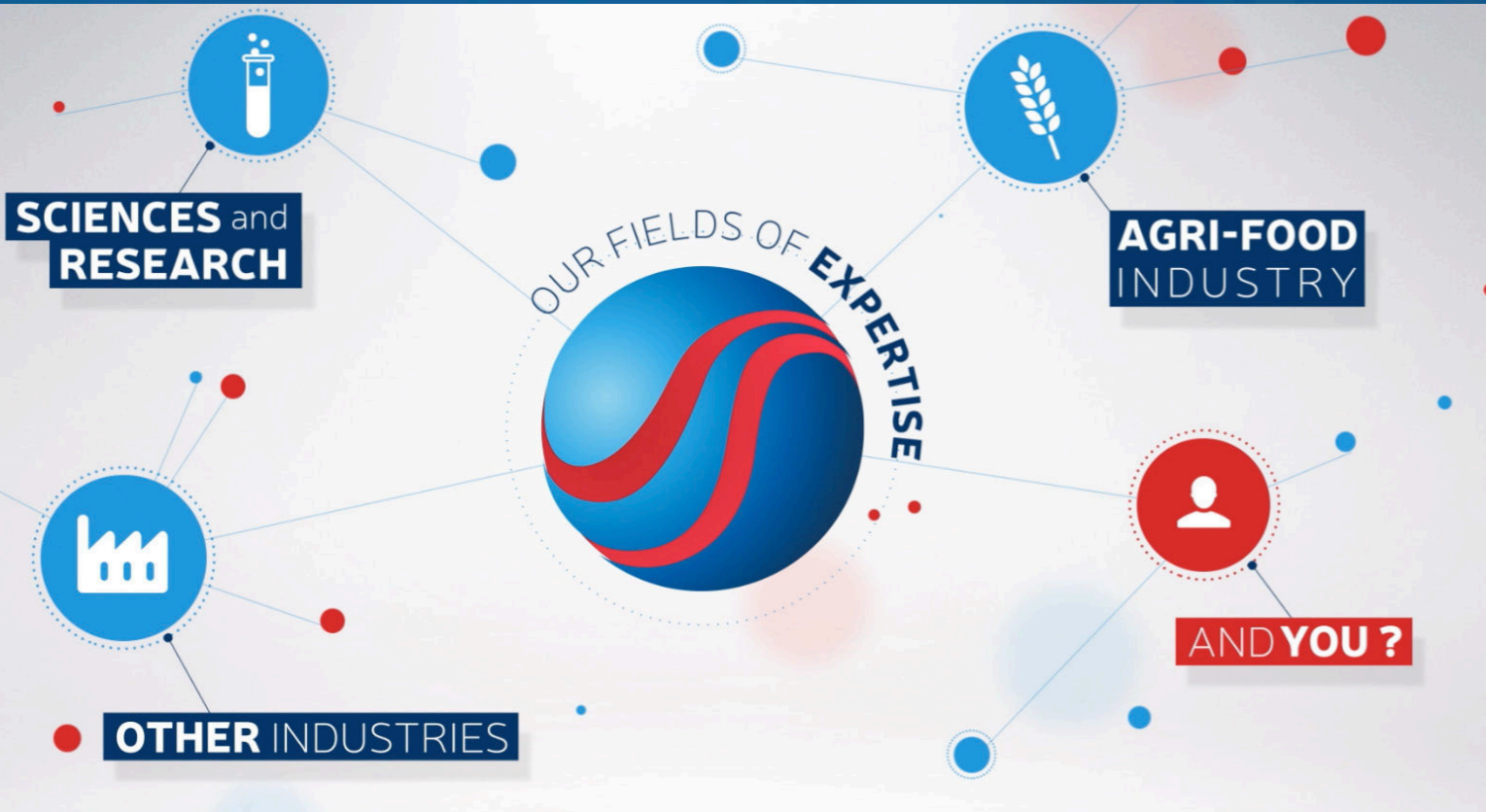
CUSTOM MADE



LOW SOUND



LIGHTNESS



OUR DIFFERENCE WILL MAKE YOURS

UNIQUE ON THE MARKET

The choice of the polyester composite material & the manufacturing method, polyester lamination.

- ▶ IMPERMEABLE MONOCOQUE STRUCTURE
- ▶ NO SCREWS OR RIVETS
- ▶ ISOTHERMAL
- ▶ EASY TO CLEAN
- ▶ NO CONDENSATION
- ▶ 30% LIGHTER than steel panel



AIR HANDLING UNITS



AIR DUCT NETWORK



ARCHITECTURAL DUCT



AIR HANDLING UNITS | SODISTRA



YOU HAVE A UNIQUE PROJECT, WE HAVE THE CUSTOM MADE SOLUTION

Sodistra has chosen to design and manufacture your air handling solution, as a polyester composite. The choice of this material creates an air handling solution with adaptability, a strong mechanical performance and above all the possibility of ultra-cleanliness leading to superior hygiene in any environment.

Other benefits of the design include strong chemical and corrosion resistance, minimal isothermal bridging and resistance to fire.

Impermeable monocoque structure
1 face = 1 panel



WALLS PANELS

2 reinforced polyester faces
The fiberglass for the resistance
The polyester resin gives the protection and the resistance
The gelcoat provides the ultra-smooth finish

Interior and exterior faces are completely smooth finish :
ultra clean

Insulating foam (PIR) is closed cell foam without HCFC
Density 35 ou 50 kg/m3

Thickness varies from 55 to 200 mm depending on your requirements

Resists temperatures from -35° to + 45°C

2 TYPES OF ISOTHERMAL, WATERTIGHT ACCESS

Custom moulded. The door leaf is injected under vacuum and includes a silicone tubular seal to improve tightness
- Access trap to heat exchangers
- Access doors to fans and filters

3 ASSEMBLY FINISHES

The choice of the finition will be made according to the installation, environment, air flow, pressure, and air treatment.

▶ Assembly by polyester lamination

▶ Assembly with polyester profiles

▶ Assembly combined
Polyester profiles in walls & polyester bridging lamination for the wall and the floor connections.

SELF-SUPPORTING RAISED FLOOR

2 reinforced polyester faces - fiber, polyester resin and gelcoat

Security cover

Sloped floor to facilitate maintenance. Evacuation of condensates, washing or de-icing water, drainage via polyester pipes incorporated into the floor of the unit.

Insulating foam (PIR) is closed cell foam without HCFC
Density 35 ou 50 kg/m3

Thickness varies from 55 to 200 mm depending on your requirements

Resists temperatures from -35° to + 45°C



AIR HANDLING

The Air

Flow rate for treated air: capacity of 1000 to 100,000 m3/h
Return or fresh
Air humidity: resistant to tropical environments

Air filtration

Pre-filter gravimetric disposable, washable knit, metal
Opacimetric filter F7, F8 or F9
Absolute air filtration: from E10 to E14

Air intake/outlet

Aspirated air: capacity from -35° to +45°C
Extracted/blown air: capacity from -35° to +45°C
The air intakes and outlets can be positioned in the roof, on the sides or in the floor: no restriction

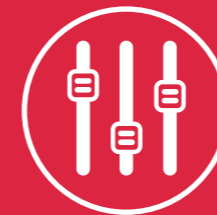
Air ventilation

Free wheel
Pulley or belt centrifuge
EC motor

INTERIOR OR EXTERIOR INSTALLATION

The units are unaffected by humidity or sunlight and are resistant to cold and heat. They are also resistant to all environments even the most aggressive.

100% CUSTOM MADE



CONFIGURATIONS



GEOMETRY



EQUIPMENTS



ACCESSORIES



COLOURS
All RAL colours

EQUIPMENTS



FILTERS



HEAT EXCHANGERS



FANS



DAMPERS



CONTROL ACCESSORIES



VENTILATION DUCTS

ACCESSORIES

▶ ADJUSTABLE FEET
▶ PROTECTIVE CAP
▶ VIEWING WINDOW

▶ HANDLE
▶ SAFETY GRILLE
▶ FAN PIN

▶ ANTI BY-PASS
▶ EVACUATION DES OF CONDENSATES

AIR HANDLING UNITS

Assembly by
POLYESTER LAMINATION



Assembly with
POLYESTER PROFILES



Assembly
COMBINED



Outside wall/floor connections



Outside wall/Inside wall connections



Outside wall connections



YOUR GUARANTEES, OUR CERTIFICATIONS



Mechanical resistance
NF EN 1886
D1, L1, T1, TB1, F9



Emission of VOCs
NF EN ISO 16000 3/6/9/11



Food contact | Suitable



Rating M1



Air tightness



Filter derivation leaks



Thermal transmittance of the walls



Thermal bridging factor

| Test | Result | Compliant with | Certified by |
|-------------------------------------|----------------------------|----------------------------|--------------|
| Mechanical resistance of the casing | D3 D2 D1 | NF EN 1886 | TUV NORD |
| Air tightness | L3 L2 L1 | NF EN 1886 | TUV NORD |
| Filter derivation leaks | G1 F5 F6 F7 F8 F9 | NF EN 1886 | TUV NORD |
| Thermal transmittance of the walls | T5 T4 T3 T2 T1 | NF EN 1886 | TUV NORD |
| Thermal bridging factor | TB5 TB4 TB3 TB2 TB1 | NF EN 1886 | TUV NORD |
| Food contact | SUITABLE | Règlement CE N°1935/2004 | IANESCO |
| Fire rating | M5 M4 M3 M2 M1 M0 | NF P 92-501 NF P 92-507 | LNE |
| Emission of VOCs | C B A A+ | NF EN ISO 16000- 3/6/9/11 | LNE |





your address
& contact

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