

HEP



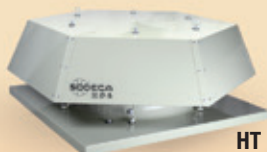
HEPT



HPX

## AXIAL FANS

## ROOF FANS



HT

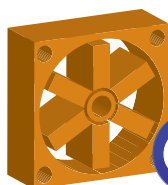


CVT



CHT

# AXIAL FANS AND ROOF FANS



According  
EU Regulation





## OUR COMMITMENT TO THE ENVIRONMENT

Sodeca has begun a new stage of study and design of new trends in ventilation which will help to preserve the environment and to make the energy saving which so much concerns today's society.



### EFFICIENT WORK

SODECA is pleased to present its new efficient, high performance "**Efficient Work**" fans, equipped with high-tech motors for greater energy savings. These new products exceed the requirements of the Ecodesign ErP Directive of 2009/125/CE and the (EU) regulation 327/2011 governing fans and adhere to the KYOTO goals adopted by the EU for cutting greenhouse gas emissions.

**SODECA** has concentrated its activity on the production of industrial fans, ventilation systems and extractors for the removal of smoke in case of fire since 1983, when it was founded.

**SODECA's** fans and extractors are present in all European countries and in many parts of the world, thanks to the quality of the product and the methods of research and development used.

Our quality procedures, used and certified by BUREAU VERITAS, in accordance with ISO 9001:2008, are another of the reasons which make **SODECA** one of the best and most renowned fan manufacturers in Europe.

Without a doubt, the most important factor for achieving our objectives is the human factor, the great professionals who work at your service, offering not only ventilation equipment but also solutions to any ventilation need required by our customers.

We offer you the possibility of visiting our facilities in Sant Quirze de Besora, with over 16,000<sup>2</sup> square metres of built area, where you will be able to see our fans being manufactured to the highest standards of quality, complying with the ISO and AMCA standards.

This catalogue only represents a small part of our product and services offering. Do not hesitate to contact us. We will put all our experience and our human resources at your disposal.



SODECA S.L.U. main facilities in E-08580 SANT QUIRZE DE BESORA



## AXIAL AND ROOF FANS

Sodeca has specialised since its inception in the design and manufacture of fans and accessories for industrial applications.

The combination of our experience acquired over decades of working with fans and the technological contribution of our engineers in different departments has made it possible for Sodeca to become one of the largest manufacturers of industrial ventilation in the world.

Industrial applications demand the ability to adapt to the specifications of each project as well as manufacturing flexibility so as to satisfy the real needs of each client.

In order to meet this objective, Sodeca produces a range of Standard products and a range of specially manufactured products in order to build fans that adapt to the demands of our clients.

For many years we have been making a continuous investment in the development of internal processes and applications in order to manufacture and supply special industrial fans within a very short design and production period.

Teamwork in our engineering department, our work with universities and technological centres, as well as the close collaboration between the design departments of our external partners makes it possible to achieve innovative solutions in industrial ventilation in a short period of time.

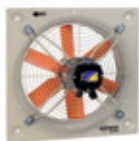
Throughout our history, we have developed all kinds of technology in fans for industrial applications which are currently used all over the world. It is our objective to continue to invest in this sector so as to continue to be one of the most esteemed manufacturers of industrial fans in the world.





## AXIAL FANS

### HEP



Wall-mounted axial fans,  
with IP-65 motor

10

### HEPT



Long-cased axial fans,  
with IP-65 motor

10

### HC



Wall-mounted axial fans  
with IP-55 motor

15

### HCD



Small-diameter wall-mounted  
axial fans

21

### HCRE



Low noise wall-mounted axial fans  
with sheet steel impeller and external  
rotor motors

23

### HRE



Circular axial fans  
with external rotor motor

23

### HCH HCT



Robust wall-mounted axial and  
long-cased fans

27

### HFW



Hot galvanised cased  
fans

38

### CJHCH



Axial ventilation units with  
soundproofed box

43

### HTP



Cased high-pressure axial fans

46

### HGT



Large diameter long cased axial  
fans with direct drive motor

62

### HGTX



Large diameter long cased axial  
fans with external motor

62

## AXIAL FANS

### HTM



Axial fans  
mobile long  
cased

99

### HPX



Long cased  
axial fans  
with external  
motor

101

### HBA



Axial fans  
Forked tubular fans

104

### HPX/SEC



Fans for extreme conditions  
in ovens and driers

106

### HCH/SEC



Fans specially designed  
for operation in ceramic  
and wooden driers

108

### VAM VAC



Axial fans with galvanised frame  
and IP-65 motor and for ducts  
with IP-65 motor

110

### HGI



Large-diameter axial fans

112

### KITS SOBREPRESIÓN

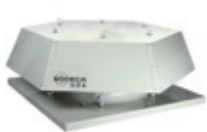


114

## ROOF-MOUNTED EXTRACTOR FAN SYSTEMS

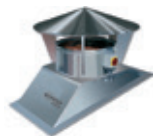
### ROOF-MOUNTED AXIAL EXTRACTOR FANS

#### HT



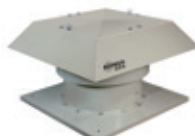
Roof-mounted axial extractor fans with flat bases 118

#### HTTI



Roof-mounted axial extractor fans with inclined support, depending on the roof inclination 122

#### HTMH



Roof-mounted multifunctional extractor fans for large flow rates 125

#### HTMV



Roof-mounted axial extractor fans with vertical air outlet 133

### ROOF-MOUNTED CENTRIFUGAL EXTRACTOR FANS

#### CRF



Roof-mounted centrifugal extractor fans, with low noise level 137

#### CTD



Roof-mounted centrifugal household chimney extractor fans 140

#### CHT CVT



Roof-mounted multifunctional extractor fans for large flow rates 196

#### CA-ROOF



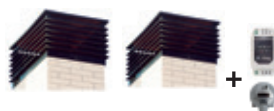
Roof-mounted centrifugal household chimney exhaust fans 142

#### TIRACAMINO



Chimney and barbecue smoke extractor fans 144

#### RCH RCH-400X800 VM



Chimney extractor fan and cap for hybrid extraction in community homes 145

## ROOF-MOUNTED SMOKE EXTRACTOR FANS

F-400 CERTIFICATE



### HTMF



400°C/2h and 300°C/2h roof-mounted multifunctional extractor fans

148

### THT/ROOF



400°C/2h and 300°C/2h roof-mounted axial extractor fans with vertical air outlet

156

### THT/HATCH



400°C/2h rated dynamic discharge system with motorised opening function, fitted with roof-mounted extractor, for smoke extraction in the event of fire

191

### CHT CVT



400°C/2h roof-mounted centrifugal extractor fans with horizontal air outlet or vertical aluminium rain cap

196

## ROOF-MOUNTED ATEX EXTRACTOR FANS FOR EXPLOSIVE ATMOSPHERES

ATEX CERTIFICATION



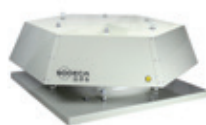
### RFHD



Roof-mounted centrifugal extractor fans with horizontal outlet and ATEX Ex d certification

201

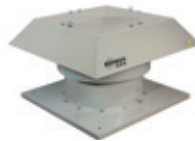
### HT/ATEX



Roof-mounted axial extractor fans with ATEX Certification and possibility of Ex e, Ex d, Ex tc and Ex tb marking

205

### HTMH/ATEX



Roof-mounted axial extractor fans with ATEX Certification and possibility of Ex e, Ex d, Ex tc and Ex tb marking

208

### HTMV/ATEX



Roof-mounted axial extractor fans with vertical air outlet, ATEX Certification and possibility of Ex e, Ex d, Ex tc and Ex tb marking

213

### CVT/ATEX CHT/ATEX



Roof-mounted centrifugal extractor fans with horizontal or vertical air outlet, ATEX Certification and possibility of Ex e, Ex d, Ex tc and Ex tb marking

217

## ROOF-MOUNTED EFFICIENT WORK EXTRACTOR FANS



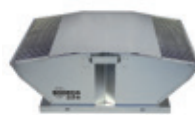
### CHT/EW CVT/EW



400°C/2h centrifugal roof-mounted extractor fans, with horizontal or vertical air outlet, fitted with an E.C. Brushless industrial motor

221

### CRF/EW



Roof-mounted centrifugal extractor fans with low noise level, fitted with an E.C. Brushless industrial motor

225

# STANDARDS COMPLIANCE

**SODECA's fans and extractors comply with the following standards:**

| QUALITY                               |   |
|---------------------------------------|---|
| ISO 9001:2008                         | Sistemas de gestión de la calidad. Requisitos.<br>Quality management systems -- Requirements  |
| TESTS                                 |   |
| ISO 5801                              | Ventiladores industriales. Ensayos de comportamiento en circuitos normalizados.<br>Industrial fans -- Performance testing using standardized airways  |
| AMCA 210-07                           | Ventiladores industriales. Métodos de ensayos de ventiladores y su representación de ensayos.<br>Laboratory Methods of Testing Fans for Aerodynamic Performance Rating  |
| UNE-EN ISO 5801                       | Ventiladores. Dispositivos e instalaciones para el ensayo de ventiladores.  |
| UNE-EN ISO 13350                      | Ensayos de comportamiento de ventiladores de chorro.<br>Industrial fans -- Performance testing of jet fans  |
| ISO 13348                             | Industrial fans -- Tolerances, methods of conversion and technical data presentation  |
| FANS FOR HIGH TEMPERATURES            |   |
| EN 12101-3                            | Sistemas de control de humos y calor. Parte 3: Especificaciones para aireadores extractores de humos y calor mecánicos.<br>Smoke and heat control systems - Part 3: Specification for powered smoke and heat exhaust ventilators  |
| ACOUSTICS                             |   |
| ISO 3744                              | Acústica. Determinación de los niveles de potencia acústica de fuentes de ruido a partir de la presión acústica.<br>Método de ingeniería para condiciones de campo libre sobre un plano reflectante.<br>Acoustics -- Determination of sound power levels of noise sources using sound pressure -- Engineering method in an essentially free field over a reflecting plane |
| BALANCE AND VIBRATIONS                |   |
| ISO 1940-1                            | Vibraciones mecánicas. Calidad de equilibrado<br>Mechanical vibration -- Balance quality requirements for rotors in a constant (rigid) state -- Part 1: Specification and verification of balance tolerances  |
| ISO 10816-1                           | Vibraciones mecánicas. Evaluación de las vibraciones de máquinas<br>Mechanical vibration -- Evaluation of machine vibration by measurements on non-rotating parts -- Part 1: General guidelines   |
| ISO 14694                             | Ventiladores industriales. Especificaciones para equilibrado y niveles de vibración<br>Industrial fans -- Specifications for balance quality and vibration levels   |
| SAFETY (Declaration of EC Compliance) |   |
| EN ISO 12100                          | Seguridad de las máquinas. Conceptos básicos, principios generales para el diseño. Parte 1: Terminología básica, metodología.<br>Safety of machinery -- Basic concepts, general principles for design -- Part 1: Basic terminology, methodology   |
| EN ISO 12100                          | Seguridad de las máquinas. Conceptos básicos, principios generales para el diseño. Parte 2: Principios técnicos.<br>Safety of machinery -- Basic concepts, general principles for design -- Part 2: Technical principles  |
| UNE EN 60204-1                        | Seguridad de las máquinas. Equipo eléctrico de las máquinas. Parte 1: Requisitos generales.<br>Safety of machinery - Electrical equipment of machines - Part 1: General requirements  |
| ISO 13857                             | Seguridad de máquinas. Distancias de seguridad para impedir que se alcancen zonas peligrosas con los miembros superiores e inferiores. Safety of machinery -- Safety distances to prevent danger zones being reached by upper and lower limbs   |
| UNE-EN ISO 12499                      | Ventiladores industriales. Seguridad mecánica en los ventiladores<br>Industrial fans -- Mechanical safety of fans -- Guarding   |
| REGULATIONS AND DIRECTIVES            |   |
| Directiva 2006/42/CE                  | Directiva de máquinas<br>Machinery Directive  |
| Directiva 2006/95/CE                  | Directiva de baja tensión<br>Low Voltage Directive  |
| Directiva 2004/108/CE                 | Directiva compatibilidad electromagnética<br>EMC Directive  |
| Reglamento 305/2011                   | Directiva productos de construcción<br>Construction Products Directive CPR  |
| Directiva 2009/125/CE                 | Directiva de requisitos de diseño ecológico para productos que utilizan energía.<br>Ecodesign Requirements for Energy-related Products Directive  |
| ATEX EXECUTIONS                       |   |
| Directiva ATEX 94/9/CE                | Aparatos y sistemas de protección para uso en atmósferas potencialmente explosivas<br>Equipment and protective systems intended for use in potentially explosive atmospheres  |
| EN 14986                              | Diseño de ventiladores para trabajar en atmósferas potencialmente explosivas.<br>Design of fans working in potentially explosive atmospheres  |
| EN 13463-1                            | Equipos no eléctricos destinados a atmósferas potencialmente explosivas. Parte 1: Requisitos y metodología básica.<br>Non-electrical equipment for use in potentially explosive atmospheres - Part 1: Basic method and requirements   |
| EN 1127-1                             | Atmósferas explosivas. Prevención y protección contra la explosión. Parte 1: Conceptos básicos y metodología.<br>Explosive atmospheres - Explosion prevention and protection - Part 1: Basic concepts and methodology   |