



# CONSTANT PRESSURE REGULATION SYSTEMS

MINIMAL ENERGY CONSUMPTION



FOR VMC IN HOUSES, APARTMENTS  
AND COMMUNAL DWELLINGS





## VENTILATION SYSTEMS FOR HOMES

Many countries have regulations that require dwelling places to have good internal air quality, with a supply of fresh outside air and exhaust of stale internal air.

The purpose of these regulations is to ensure that these types of buildings get good ventilation rates to prevent condensation and to contribute towards the health and wellbeing of the occupants.

### Better energy performance E.C. Technology

High-performance systems with high-technology motorisations to achieve a greater energy saving.

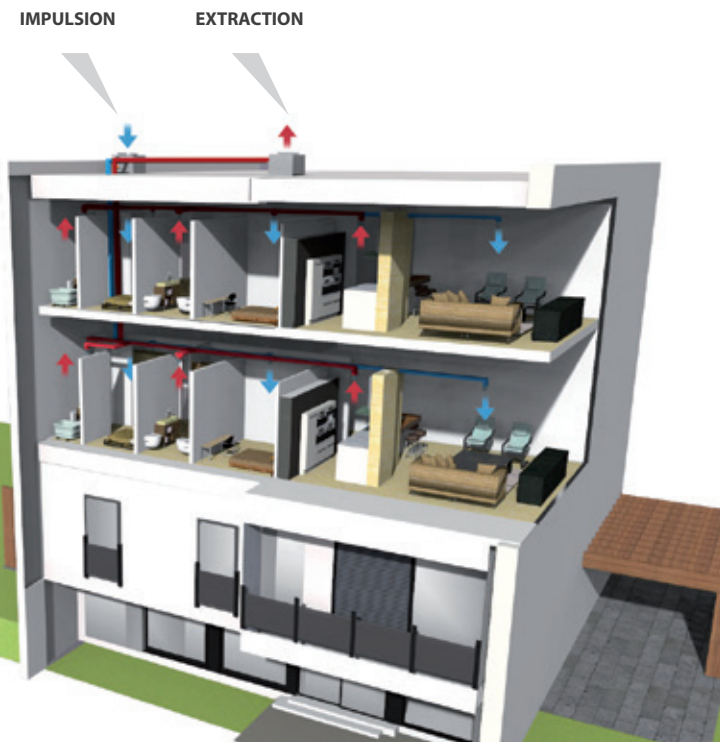


## CONTROLLED MECHANICAL VENTILATION SYSTEM

The system uses an electrically driven fan to supply and extract air. Separate fans can be used to supply or extract or, alternatively, a centralised system can be used to perform both functions at the same time.

Air intake can be located in rooms such as bedrooms and dining rooms with extract points through

rooms such as kitchens and bathrooms. The system can also accommodate a heat recovery unit, to gather heat from the exhaust air which is then used to warm the supply air coming in from the outside, obtaining a significant reduction in energy use.



# VMC SOLUTIONS FOR COMMUNAL BUILDINGS



## AIR IMPULSION AND/OR EXTRACTION IN HOMES

The Sodeca fans with CPC have been specially designed for controlled mechanical ventilation systems in multi-family or communal homes.

The models for use where air intakes can be located in rooms such as bedrooms and dining rooms with extract points through rooms such as kitchens and bathrooms are as follows:

### IMPULSION



- SVE/PLUS/EW/CPC
- CJBD/EW/CPC

### EXTRACTION



The following models can be used for extraction. The CJV/EW/T model can also be used as an extract fan and has F-400 certification, making it suitable for smoke extract in the event of a fire.

- SVE/PLUS/EW/CPC
- CJBD/EW/CPC
- CJV/EW
- CRF/EW/CPC
- CJV/EW/T





# CONSTANT PRESSURE CONTROL

The CPC system allows the fan to operate automatically, using a built-in pressure sensor and electronic control to adjust the speed of the ventilation unit to the requirements of each facility.

## IMPULSION



SVE/PLUS/EW/CPC



CJBD/EW/CPC

## EXTRACTION



SVE/PLUS/EW/CPC



CJBD/EW/CPC



CJV/EW



CRF/EW/CPC



CJV/EW/T



This allows a constant pressure in the system regardless of the number of dwellings that is being served and regardless of the amount of extract or supply points, adapting the air flow to the needs of each dwelling.

This control system, which acts with our E.C. TECHNOLOGY fans, provides the best solution

for all kinds of facilities, obtaining much higher energy cost savings than any other unit. It also maintains a perfect balance between the ventilation needs of each home, minimal power consumption and low noise level.



#### **BENEFITS**

- Energy saving of 70%, thanks to the E.C. TECHNOLOGY and speed control
- Reduces energy costs
- Reduces environmental impact
- Low noise level
- Balanced ventilation at all times
- Centralised installation and easy maintenance



#### **ENERGY SAVING WITH SYSTEMS EQUIPPED WITH E.C. TECHNOLOGY**

In situations where energy saving is particularly important and where facilities require high levels of energy efficiency, the fans equipped with E.C. TECHNOLOGY motors provide very significant reductions in energy costs. In addition to this, we can precisely control the speed of the fans via signals from external sensors to facilitate optimal performance, which make E.C. TECHNOLOGY fans a great technological solution for developing market trends.

The E.C. TECHNOLOGY industrial motors with technology developed by SODECA, with NEODIMIO magnets to comply with IE4 efficiency, allow us to obtain great energy savings, as well as being equipped as standard with the electronics necessary for their operation and an electronic variable speed drive (VSD).



## SVE/PLUS/EW/CPC



Low-noise, in-line duct fans with a 40 mm thick acoustically insulated case for automatic constant pressure control.



### Fan:

- Acoustic casing coated with sound absorbing material.
- All models fitted with a reaction impeller.
- Standard sized inlet and outlet spigots for ease of installation.
- Fitted with inspection hatch.
- Fitted with built in support feet.
- Linear airflow direction.

### Motor:

- Single-phase 200-240 V 50/60 Hz, IP54 protection. Except model SVE/PLUS/EW-400/H, 200-277V 50/60 Hz, IP55 protection.
- Maximum temperature of air to be carried: -25°C +60°C. Except model SVE/PLUS/EW-200/H, -25°C +45°C.
- High efficiency external E.C. motors.

## CJV/EW



Extract fan units with vertical air outlet, E.C. industrial motors and automatic constant pressure control for mechanical ventilation (VMC) for dwellings.



### Fan:

- Extractor fan units with vertical outlet and two circular inlets.
- Galvanised sheet steel casing.
- Impeller made of galvanised sheet steel.
- Comes with single-phase speed controller (variable speed drive).

### Motor:

- New high-efficiency (IE4) synchronous E.C. motors. Fitted with high-intensity neodymium magnets.
- Reliable, sensor free and maintenance free control.
- Fitted with durable ball bearings.
- IP55 protection.
- Fan operating temperature: -25°C +60°C.
- CJV/EW-1800/T: Fan operating temperature: S1 -25°C +60°C continuous operation. 400°C/2 h S2 operation.
- Approved in accordance with standard EN 12101-3.

## CJBD/EW/CPC



Acoustically insulated extraction units with vertical air outlet and E.C. motors to automatically maintain constant pressure.



### Fan:

- Galvanised sheet steel casing.
- Impeller made of galvanised sheet steel.
- Comes with single-phase speed controller (variable speed drive).

### Motor:

- New high-efficiency (IE4) synchronous E.C. motors. Fitted with high-intensity neodymium magnets.
- Compact motors to facilitate air flow passage.
- Reliable, maintenance free, and sensor free control.
- IP54 protection.
- Fan operating temperature: -25°C +60°C.

## CRF/EW/CPC



Roof mounted centrifugal extract fans with low noise level. Fitted with E.C. motors to automatically maintain constant pressure.



Centrifugal roof-mounted extract fans with low noise level and external rotor motor, fitted with an E.C. industrial motor.

### Fan:

- Made of galvanised sheet steel.
- Impeller with reaction blades made of plastic material.
- Bird guard.
- Easy access case for inspection and maintenance.

### Motor:

- High efficiency E.C. external rotor motors regulated by 0-10V signal. IP54 protection.
- Single-phase 230 V-50/60 Hz and three-phase 400 V-50/60 Hz.
- Maximum temperature of air to be carried: -25°C +50°C.



#### HEADQUARTER

##### Sodeca S.L.U.

Ctra. de Berga, km 0,7  
E-08580 SANT QUIRZE DE BESORA  
Barcelona, SPAIN  
Tel. +34 93 852 91 11  
Fax +34 93 852 90 42  
General sales: comercial@sodeca.com  
Export sales: ventilation@sodeca.com



[www.sodeca.com](http://www.sodeca.com)



#### EUROPE

##### FINLAND

**Sodeca Finland Oy**  
Mr. Kai Yli-Sipilä  
Metsälinnankatu 30, PL2  
FI-32700 Huittinen  
FINLAND  
Tel. + 358 400 320 125  
orders.finland@sodeca.com

##### UNITED KINGDOM

**Sodeca Fans UK Ltd**  
Mr. Mark Newcombe  
Tamworth Enterprise Centre  
Philip Dix House, Corporation  
Street, Tamworth, B79 7DN  
UNITED KINGDOM  
Tel. +44 (0) 1827 216 109  
sales@sodeca.co.uk

##### PORTUGAL

##### Sodeca Portugal Unip. Lda

PORTO  
Rua Veloso Salgado 1120/1138  
4450-801 Leça de Palmeira  
Tel. +351 229 991 100  
geral@sodeca.pt

LISBOA  
Pq. Emp. da Granja Pav. 8  
2625-607 Vialonga  
Tel. +351 219 748 491  
geral@sodeca.pt

ALGARVE  
Rua da Alegria S/N  
8200-557 Cortesões  
Tel. +351 913 615 773  
geral@sodeca.pt

#### AMERICA

##### COLOMBIA

**Sodeca Latam S.A.S**  
Sra. Luisa Stella Prieto  
Calle7 No. 13 A-44  
Manzana 4 Lote1, Montana  
Mosquera, Cundinamarca  
Bogotá, COLOMBIA  
Tel. +57 1 756 4213  
ventascolombia@sodeca.com

##### CHILE

**Sodeca Ventiladores Ltda**  
Sr. Frederic Cousquer  
Santa Bernardita 12.005  
(Esquina con Puerta Sur)  
Bodegas 24 a 26,  
San Bernardo, Santiago, CHILE  
Tel. +56 22 840 5582  
ventas.chile@sodeca.com

##### CARIBBEAN ZONE

**Sodeca Cuba**  
Residencial Miramar  
Apto. N° 108, Ave. 7ma  
N° 1805 entre 18 y 20,  
Miramar Playa,  
La Habana, CUBA  
Tel. +537 20 43721  
carlos@sodeca.co.cu

##### PERU

**Sodeca Perú SAC**  
Sr. Jose Luis Jiménez  
C/ Mariscal Jose Luis de  
Orbegoso 331. Urb. El pino.  
15022, San Luis. Lima, PERÚ  
Tel. +51 1 326 24 24  
Cel. +51 994671594  
comercial@sodeca.pe

#### RUSSIA

##### RUSSIA

**Sodeca, L.L.C.**  
Mr. Stanislav Alifanov  
Myasisheva str, 1, room 603  
Business Center "Chaika"  
140180 Zhukovskiy  
Moscow region, RUSSIA  
Tel. +7 495 955 90 50  
alifanov@sodeca.com

