

BOXPRES PLUS AND KIT BOXPRES PLUS

The staircases and escape routes pressurisation system permits automatic control of the flow rate as well as maintaining a differential pressure of 50Pa in accordance with standard UNE EN 12101-6.

The equipment in the BOXPRES PLUS is carefully calibrated to guarantee that the system works accurately and quickly in the event of a fire and ensures that it remains stable.



The equipment is has everything needed to control the staircase overpressure . Only the power supply, the fan and fire signal need to be connected.

To make installation simple, the KIT BOXPRES PLUS is supplied with the appropriate fan for the duty required.



Options depending on project requirements

Different solutions are available to precisely adapt the equipment to the project needs:

BOXPRESPLUS

Ideal unit for overpressure solutions in staircases and evacuation routes.

BOXPRESPLUS II

Unit designed for systems that require a standby fan, with automatic switching in the event of the main fan failure.

Accessories

CM-SMART External control panel for firefighters

The CM-SMART indicates the system status and provides firefighters with the option of manually turning the system on or off via its selector switch.

We recommend that this panel be installed at the main entry point to the protected area.



Main **characteristics** of the BOXPRES PLUS

Connection to a BMS system via **RTU Modbus**.

Once the system is activated by a fire alarm, it will remain **active**, even when the activation signal is interrupted.

Strong, rigid boxes with vandal-proof **metal casing** and IP66 rating.

Safe operating protocol in the event of a pressure probe failure.



TEST selector to check proper operation during maintenance.

Operating, alarm and fire activation **LED indicators**.

CM-SMART external control panel for firefighters.

Compatibility with the firefighter control panel.

Selector switch for the exclusive use of firefighters 0-auto-manual.

Speed control programmed for 50 Pa, differential pressure probe and magnetic thermal switch; all precisely calibrated and ready for AC/ EC motors.

BOXPRES PLUS CONTROL PANELS



The BOXPRES PLUS control panel includes:

- Variable frequency drive programmed at 50 Pa and highly accurate differential pressure probe.
- External connection for the control panel to be used exclusively by firefighters.
- Magnetic thermal switch.
- Status indicator lamp: Ready, Alarm, Fire and Run.
- Built-in control panel with TEST selector for maintenance and selector to be used exclusively by firefighters 0-AUTO-MANUAL.
- Operating procedures in safe mode in the case of failure of the differential pressure probe and automatic reset of the system in case of failure.
- Connection to BMS systems via RTU Modbus for monitoring the equipment.
- Remains operational once activated by the fire alarm, even when the activation signal is interrupted.
- Metal casing with lock with key and with IP66 protection.
- Capable of managing asynchronous motors, IPM or RM.
- Ready to operate and perform its function of pressure control.
- Only the power supply, the impulsion fan and the fire signal need to be connected.
- Different input voltage ranges and power on demand.

Order code

BOXPRES PLUS		—	1.1	—	230	—	M
↓			↓		↓		↓
BOXPRES PLUS: Control panel for a fan			Power (kW)		Input voltage		M: Single-phase input
BOXPRES PLUS II: Control panel with standby fan							T: Three-phase input

Technical characteristics and dimensions

BOXPRES PLUS

Model	Power (kW)	Power supply (V/Hz)	Output (V)	Max. output current (A)	Size	Measurements (length x width x depth)	Weight (kg)
BOXPRES PLUS-0.37-230V 50/60Hz-M-T	0.37	200 to 240 V 50/60 Hz	230 V 50/60 Hz	2.3	1	300 x 400 x 200	11
BOXPRES PLUS-0.75-230V 50/60Hz-M-T	0.75	200 to 240 V 50/60 Hz	230 V 50/60 Hz	4.3	1	300 x 400 x 200	11
BOXPRES PLUS-1.5-230V 50/60Hz-M-T	1.50	200 to 240 V 50/60 Hz	230 V 50/60 Hz	7.0	1	300 x 400 x 200	11
BOXPRES PLUS-0.75-400V 50/60Hz-T-T	0.75	380 to 480 V 50/60 Hz	400 V 50/60 Hz	2.2	1	300 x 400 x 200	11
BOXPRES PLUS-1.5-400V 50/60Hz-T-T	1.50	380 to 480 V 50/60 Hz	400 V 50/60 Hz	4.1	1	300 x 400 x 200	11
BOXPRES PLUS-2.2-400V 50/60Hz-T-T	2.20	380 to 480 V 50/60 Hz	400 V 50/60 Hz	5.8	2	400 x 500 x 250	18
BOXPRES PLUS-4-400V 50/60Hz-T-T	4.00	380 to 480 V 50/60 Hz	400 V 50/60 Hz	9.5	2	400 x 500 x 250	18
BOXPRES PLUS-5.5-400V 50/60Hz-T-T	5.50	380 to 480 V 50/60 Hz	400 V 50/60 Hz	14	3	400 x 600 x 250	21
BOXPRES PLUS-7.5-400V 50/60Hz-T-T	7.50	380 to 480 V 50/60 Hz	400 V 50/60 Hz	18	3	400 x 600 x 250	21
BOXPRES PLUS-11-400V 50/60Hz-T-T	11.00	380 to 480 V 50/60 Hz	400 V 50/60 Hz	24	3	400 x 600 x 250	21

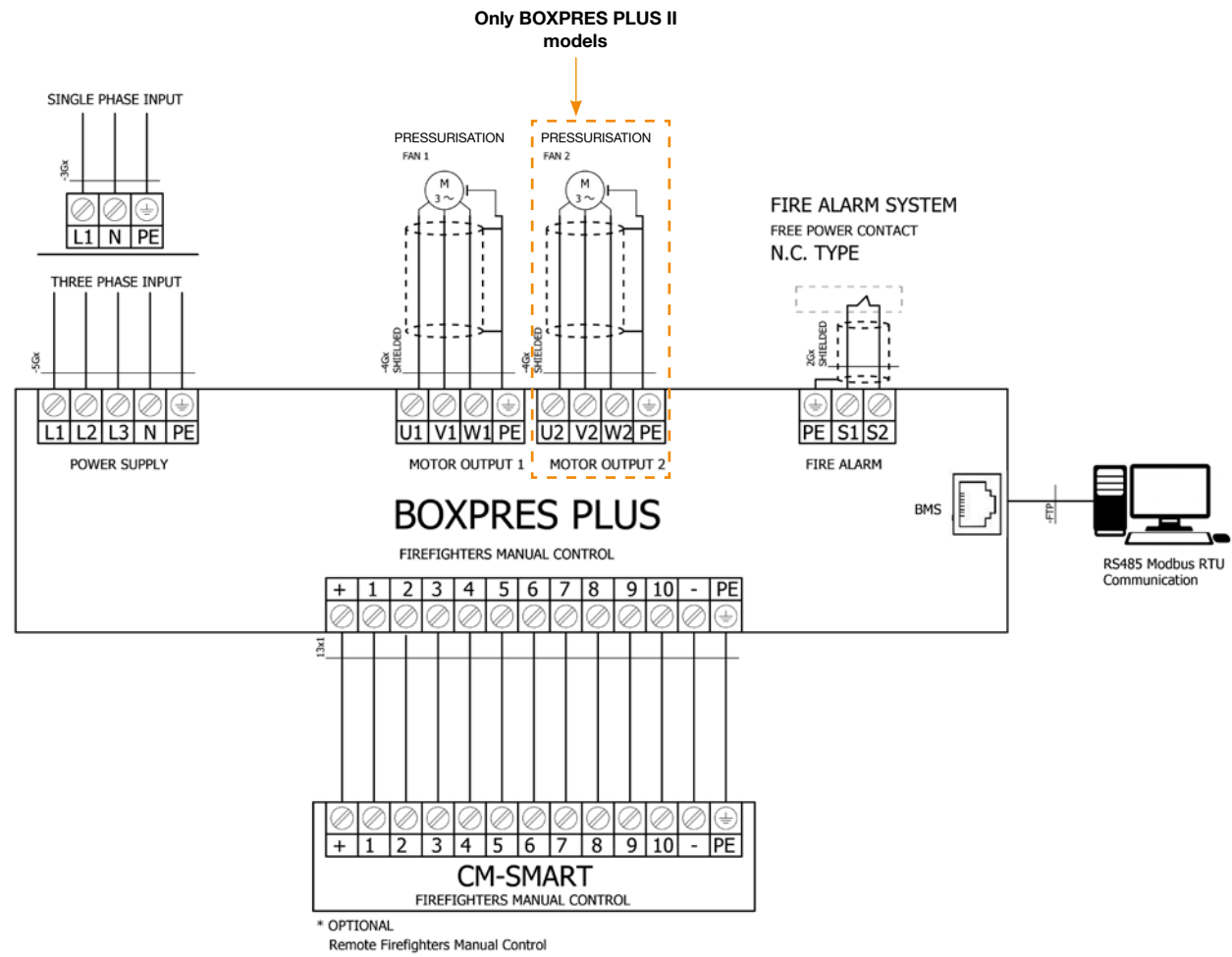
BOXPRES PLUS II

For systems with a standby fan. The fans never operate simultaneously.

Model	Power (kW)	Power supply (V/Hz)	Output (V)	Max. output current (A)	Size	Measurements (length x width x depth)	Weight (kg)
BOXPRES PLUS II-0.37-230V 50/60Hz-M-T	0.37	200 to 240 V 50/60 Hz	230 V 50/60 Hz	2.3	2	400 x 500 x 250	18
BOXPRES PLUS II-0.75-230V 50/60Hz-M-T	0.75	200 to 240 V 50/60 Hz	230 V 50/60 Hz	4.3	2	400 x 500 x 250	18
BOXPRES PLUS II-1.5-230V 50/60Hz-M-T	1.50	200 to 240 V 50/60 Hz	230 V 50/60 Hz	7.0	2	400 x 500 x 250	18
BOXPRES PLUS II-0.75-400V 50/60Hz-T-T	0.75	380 to 480 V 50/60 Hz	400 V 50/60 Hz	2.2	2	400 x 500 x 250	18
BOXPRES PLUS II-1.5-400V 50/60Hz-T-T	1.50	380 to 480 V 50/60 Hz	400 V 50/60 Hz	4.1	2	400 x 500 x 250	18
BOXPRES PLUS II-2.2-400V 50/60Hz-T-T	2.20	380 to 480 V 50/60 Hz	400 V 50/60 Hz	5.8	3	400 x 600 x 250	20
BOXPRES PLUS II-4-400V 50/60Hz-T-T	4.00	380 to 480 V 50/60 Hz	400 V 50/60 Hz	9.5	3	400 x 600 x 250	20
BOXPRES PLUS II-5.5-400V 50/60Hz-T-T	5.50	380 to 480 V 50/60 Hz	400 V 50/60 Hz	14	4	500 x 700 x 250	28
BOXPRES PLUS II-7.5-400V 50/60Hz-T-T	7.50	380 to 480 V 50/60 Hz	400 V 50/60 Hz	18	4	500 x 700 x 250	28
BOXPRES PLUS II-11-400V 50/60Hz-T-T	11.00	380 to 480 V 50/60 Hz	400 V 50/60 Hz	24	4	500 x 700 x 250	28

Connections

*All connections are made at the top section of the panel.

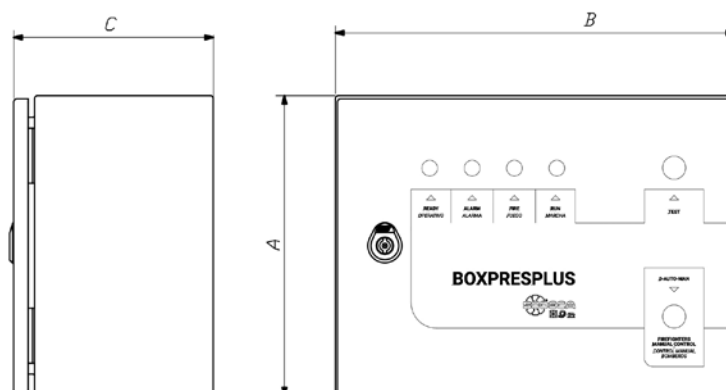


Accessories



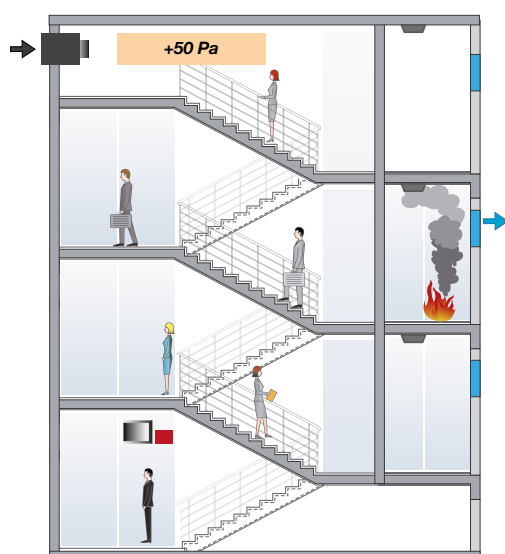
CM-SMART

Dimensions mm



Size	A	B	C
1	300	400	200
2	400	500	250
3	400	600	250
4	500	700	250

Example of application



Overpressure smoke control method

This system uses pressurisation by injecting air into spaces that are used as escape routes in the event of a fire, including stairwells, corridors, passageways, lifts, etc., especially in tall buildings with high occupancy.

The method is based on using air speed and over pressure to create a barrier, preventing smoke from entering escape routes.

**HEADQUARTERS****Sodeca, S.L.U.**

Pol. Ind. La Barricona
Carrer del Metall, 2
E-17500 Ripoll
Girona, SPAIN
Tel. +34 93 852 91 11
Fax +34 93 852 90 42
General sales: comercial@sodeca.com
Export sales: ventilation@sodeca.com

PRODUCTION PLANT**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

**EUROPE****FINLAND****Sodeca Finland, Oy**

HUITTINEN
Sales and Warehouse
Mr. Kai Yli-Sipilä
Metsälinnankatu 26
FI-32700 Huittinen
Tel. +358 400 320 125
orders.finland@sodeca.com

HELSINKI
Smoke Control Solutions
Mr. Antti Kontkanen
Viipulantie 9C
FI-00700 Helsinki
Tel. +358 400 237 434
akontkanen@sodeca.com

HYVINKÄÄ
Industrial Applications
Mr. Jaakko Tomperi
Niinistökatu 12
FI-05800 Hyvinkää
Tel. +358 451 651 333
jtomperi@sodeca.com

ITALIA**Marelli Ventilazione, S.R.L.**

Viale del Lavoro, 28
37036 San Martino B.A.
(VR), ITALY
Tel. +39 045 87 80 140
vendite@sodeca.com

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. 29
2625-607 Vialonga
Tel. +351 219 748 491
geral@sodeca.pt

ALGARVE
Rua da Alegria, 33
8200-569 Ferreiras
Tel. +351 289 092 586
geral@sodeca.pt

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

AMERICA**CHILE****Sodeca Ventiladores, SpA.**

Sra. Sofia Ormazábal
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

COLOMBIA**Sodeca Latam, S.A.S.**

Sra. Luisa Stella Prieto
Calle 7 No. 13 A-44
Manzana 4 Lote 1, Montana
Mosquera, Cundinamarca
Bogotá, COLOMBIA
Tel. +57 1 756 4213
ventascolombia@sodeca.co

PERU**Sodeca Perú, S.A.C.**

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
Severnoye Shosse, 10 room 201
Business Park Plaza Ramstars
140105 Ramenskoye,
Moscow region, RUSSIA
Tel. +7 495 955 90 50
alifanov@sodeca.com



www.sodeca.com

