

# KIT SOBREPRESIÓN

**The staircase, escape route or confinement pressurisation system enables automatic control of the flow rate and the maintenance of a differential pressure of 50 Pa in a single phase, based on standard UNE EN 12101-6-2006**

STAIRCASE OVERPRESSURE KIT  
For three-phase equipment



## STAIRCASE OVERPRESSURE KIT

- Overpressure kit comprised of a control panel (BOXPRES KIT) and discharge units (CJHCH or CJBD), for pressurising staircases and escape routes. Also available for NEOLINEO AND CJBC single-phase equipment.

## OVERPRESSURE KIT WITH RESERVE FAN

- Overpressure kit comprised of a control panel (BOXPRES KIT II) with a built-in automatic switching system that maintains the overpressure in the event of a failure in the main fan and air discharge units with a TWIN or CJHCH/DUPLEX series reserve fan.

STAIRCASE OVERPRESSURE KIT  
For single-phase equipment



## BOXPRES



- Easy to install
- A compact, autonomous solution
- Preventive maintenance
- Easy start-up
- Safe, functional installation



- The correct operation of the pressurisation systems depends not only on their sound design, but on the correct regulation performed by the system. For this reason, it is extremely important to have calibrated, high precision regulation elements that will permit both situations present in the event of a fire to be maintained simultaneously, quickly and stably.
- The BOXPRES control panel not only complies with the strictest requirements, it simplifies the work for the installer.

OVERPRESSURE KIT WITH RESERVE FAN



It includes:

- A frequency changer programmed at 50 Pa.
- A differential pressure sensor.
- A magneto thermal switch.
- A line and failure led lamp.
- A check push button.

BOXPRES:

- All the equipment interconnections are made and tested.
- Ready to operate and execute its mission of controlling the installation pressure.
- Option of checking the installation to prevent failures.
- Only the power supply line, discharge fan and fire signal need to be connected.

The single-phase panels include:

- A voltage adjuster programmed at 50 Pa.
- A differential pressure sensor outside the equipment.

## Order code

**KIT SOBREPRESIÓN — 7.100**

Kit sobrepresión Staircase overpressure unit  
Kit sobrepresión II: Overpressure unit with reserve fan

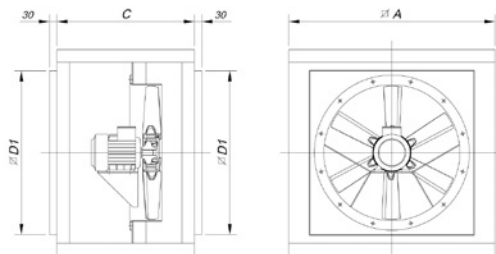
Maximum flow rate

## Technical characteristics

Model	Power supply	Outlet	Discharge unit	Flow rate (m³/h)	Irradiated noise level * dB(A)
KIT SOBREPRESION-1060-LED	230 Vac II	230 Vac II	NEOLINEO-200	1060	38
KIT SOBREPRESION-2300-LED	230 Vac II	230 Vac II	NEOLINEO-315	2300	47
KIT SOBREPRESION-2880-LED	230 Vac II	230 Vac II	CJBC-2828-6M 1/3	2880	61
KIT SOBREPRESION-7100-LED	230 Vac II	230 Vac III	CJHCH-45-4T-0.5	7100	55
KIT SOBREPRESION-7800-LED	230 Vac II	230 Vac III	CJBD-3333-6T-1.5	7800	55
KIT SOBREPRESION-12900-LED	230 Vac II	230 Vac III	CJHCH-56-4T-1	12900	60
KIT SOBREPRESION-17000-LED	230 Vac II	230 Vac III	CJHCH-63-4T-1.5	17000	61
KIT SOBREPRESION-7100-BOX	400 Vac III	400 Vac III	CJHCH-45-4T-0.5	7100	55
KIT SOBREPRESION-7800-BOX	400 Vac III	400 Vac III	CJBD-3333-6T-1.5	7800	55
KIT SOBREPRESION-12900-BOX	400 Vac III	400 Vac III	CJHCH-56-4T-1	12900	60
KIT SOBREPRESION-17000-BOX	400 Vac III	400 Vac III	CJHCH-63-4T-1.5	17000	61
KIT SOBREPRESION II-6240-BOX	400 Vac III	400 Vac III	TWIN-12-6T-1.5	6240	55
KIT SOBREPRESION II-9520-BOX	400 Vac III	400 Vac III	TWIN-15/15-6T-3	9520	54
KIT SOBREPRESION II-12900-BOX	400 Vac III	400 Vac III	CJHCH/DUPLEX-56-4T-1-H	12900	60
KIT SOBREPRESION II-17000-BOX	400 Vac III	400 Vac III	CJHCH/DUPLEX-63-4T-1.5-H	17000	61
SI-PRESIÓN TPDA					
SI-PRESIÓN TPDA w/DISPLAY					
BOXPRES KIT-3A 230Vac	230 Vac II	230 Vac II			
BOXPRES KIT-10A 230Vac	230 Vac II	230 Vac II			
BOXPRES KIT-0.75KW 230Vac	230 Vac II	230 Vac III			
BOXPRES KIT-1.5KW 230Vac	230 Vac II	230 Vac III			
BOXPRES KIT-0.75KW 400Vac	400 Vac III	400 Vac III			
BOXPRES KIT-1.5KW 400Vac	400 Vac III	400 Vac III			
BOXPRES KIT-2.2KW 400Vac	400 Vac III	400 Vac III			
BOXPRES KIT II-1.5KW 400Vac	400 Vac III	400 Vac III			
BOXPRES KIT II-2.2KW 400Vac	400 Vac III	400 Vac III			

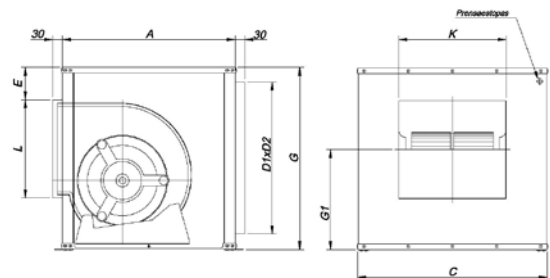
## Dimensions mm

### CJHCH



Model	ØA	C	ØD1
CJHCH-40/45/50	700	550	565
CJHCH-56/63	825	550	690

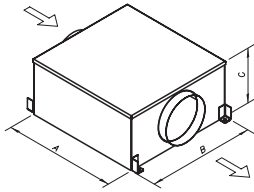
### CJBD



Model	Equiv. inches	A	B	C	E	D1xD2	G1	L	K
CJBD-3333	12/12	650	650	700	92	556X606	379	358	400

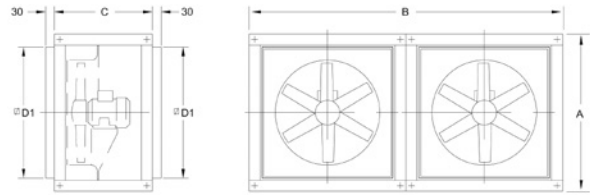
## Dimensions mm

### TWIN



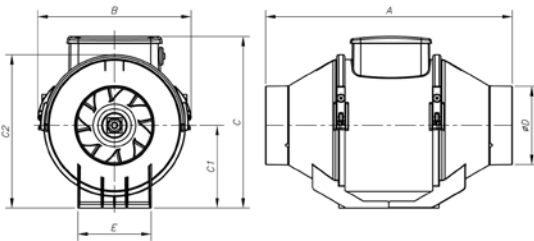
Model	A	B	C
TWIN-12/12	1103	1139	610
TWIN 15/15	1279	1639	698

### CJHCH/DUPLEX



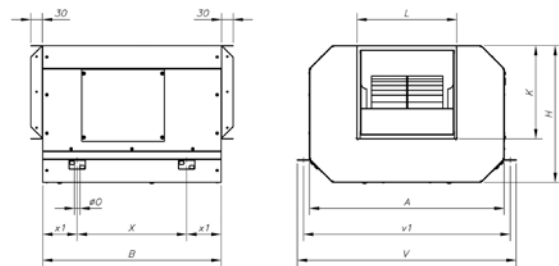
Model	ØA	B	C	ØD1
CJHCH/DUPLEX-56/63	825	1650	550	690

### NEOLINEO



Model	A	B	C	C1	C2	øD	E
NEOLINEO-200	300	234.5	260.5	125.5	235	196	140
NEOLINEO-315	448	361.5	392.5	188.5	359	312	220.5

### CJBC



Model	A	B	H	K	L	øO	V	v1	X	x1
CJBC-2828-6M-1/3	696	645	460	290	320	15755	725	445	100	

## BOXPRESS KIT SOBREPRESIÓN

### Technical characteristics and dimensions

Model	Power kW	Power supply (V/Hz)	Outlet (V/Hz)	Outlet current (A)	Size	Measurements (length x width x depth)
BOXPRES KIT-3A 230Vac	-	230 Vac II	230 Vac II	3	-	255 x 170 x 140 mm
BOXPRES KIT-10A 230Vac	-	230 Vac II	230 Vac II	10	-	255 x 170 x 140 mm
BOXPRES KIT-0.75kW 230Vac	0.75	230 V II / 50Hz	230 V III / 50Hz	4.3	1	270 x 270 x 170 mm
BOXPRES KIT-1.5kW 230Vac	1.5	230 V II / 50Hz	230 V III / 50Hz	7	1	270 x 270 x 170 mm
BOXPRES KIT-0.75KW 400Vac	0.75	400 V III / 50Hz	400 V III / 50Hz	2.2	1	270 x 270 x 170 mm
BOXPRES KIT-1.5KW 400Vac	1.5	400 V III / 50Hz	400 V III / 50Hz	4.1	1	270 x 270 x 170 mm
BOXPRES KIT-2.2KW 400Vac	2.2	400 V III / 50Hz	400 V III / 50Hz	5.8	2	360 x 360 x 205 mm

### Equipment cable entry gland

#### BOXPRES KIT-3A / KIT-10A

Power supply and motor connection

Regulator



Sensor



Pressure connection

#### BOXPRES KIT size 1 and 2

M 20 x 1.5mm  
Power supply and motor connection

M 12 x 1.5mm  
Fire signal connection

Pressure connection



## BOXPRES KIT SOBREPRESIÓN II

For equipment with a reserve fan

### Technical characteristics and dimensions

Model	Power kW	Power supply (V/Hz)	Outlet (V/Hz)	Outlet current (A)	Size	Measurements (length x width x depth)
BOXPRES KIT II - 1.5KW 400Vac	1.5	400 V III / 50Hz	400 V III / 50Hz	4.1	1	270 x 270 x 170 mm
BOXPRES KIT II - 2.2KW 400Vac	2.2	400 V III / 50Hz	400 V III / 50Hz	5.4	2	360 x 360 x 205 mm

\* Both motors will never operate simultaneously

#### Equipment cable entry gland

#### BOXPRES KIT size 1 and 2

M 20 x 1.5mm  
Power supply and motor connection

M 12 x 1.5mm  
Fire signal connection

Pressure connection



### Example of application

The overpressure smoke control method consists of pressurisation by injecting air into spaces which are used as escape routes by people in the case of fire, such as stairwells, corridors, passageways, lifts, etc., especially in tall buildings with large occupancy. The method is based on smoke control by the air speed and the artificial barrier created by air overpressure, preventing it from entering the escape routes.

