

# KIT BOXSMART FLAP



**Pressurisation system for stairs or evacuation routes, designed according to the European standard EN 12101-6**



The correct operation of the pressurisation systems depends not only on their sound design, but also 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.

Overpressure kit with hatch fan, consisting of a control panel (BOXSMART FLAP), which incorporates a control system for hatch fans (WALL or HATCH).

Optional CM-SMART accessory:

- External control panel for firefighters.

- 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.
- This unit is not included in the KIT BOXSMART FLAP.
- The BOXSMART FLAP models are compatible with CM-SMART FLAP.

On request:

- Customized panels for all powers according to project needs.



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



## Order code

**KIT BOXSMART FLAP – 21100 – 400**

KIT BOXSMART FLAP: Pressurisation system for stairs or evacuation routes, designed according to the European standard EN 12101-6

Maximum flow rate (m<sup>3</sup>/h)

400: Three-phase 380 to 480 V 50/60 Hz input

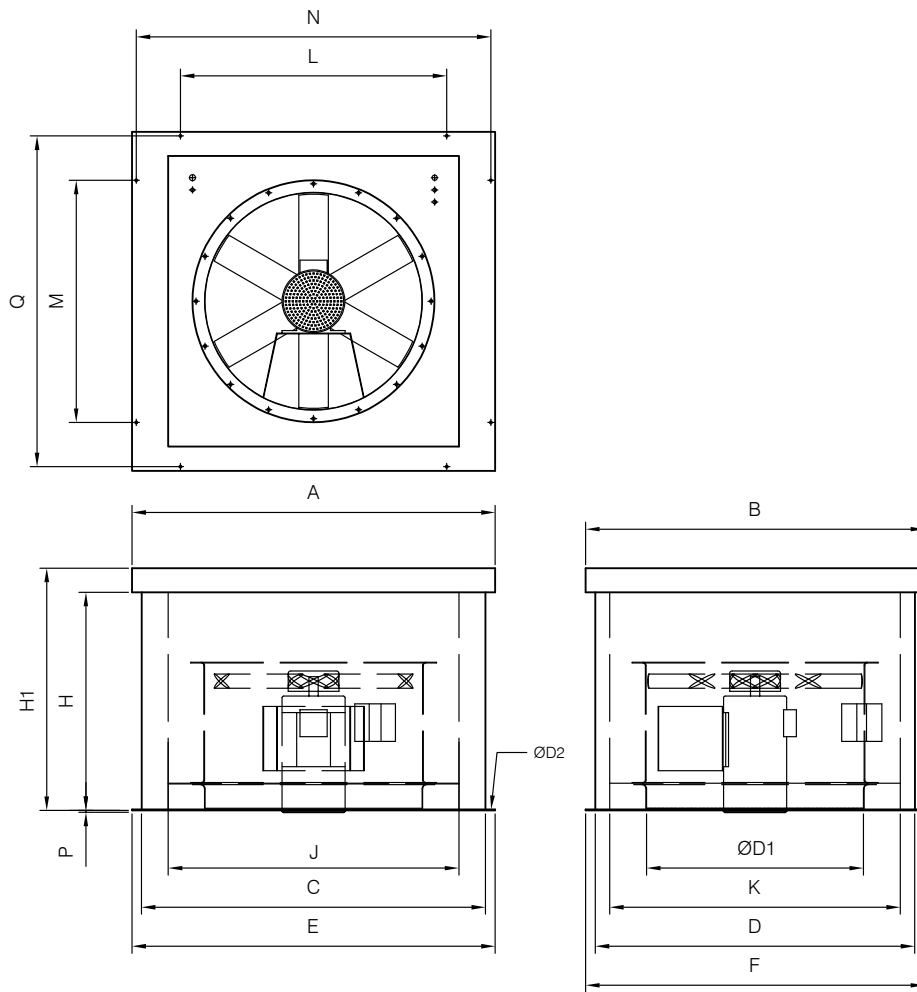
## Technical characteristics

Model	Power (kW)	Power supply (V) (Hz)	Outlet (V)	Maximum flow rate (m <sup>3</sup> /h)	Impulsion unit
KIT BOXSMART FLAP-21100 - 400	1.5	380 a 480 V 50/60 Hz	400 V 50/60 Hz	21100	WALL/DUCT-A-71-4T-2 IE3
KIT BOXSMART FLAP-25400 - 400	3.0	380 a 480 V 50/60 Hz	400 V 50/60 Hz	25400	HCT/HATCH-63-4T-4 IE3
KIT BOXSMART FLAP-41850 - 400	4.0	380 a 480 V 50/60 Hz	400 V 50/60 Hz	41850	WALL/DUCT-A-90-4T-5.5 IE3
KIT BOXSMART FLAP-52500 - 400	5.5	380 a 480 V 50/60 Hz	400 V 50/60 Hz	52500	HCT/HATCH-100-4T-7.5 IE3

\* The output power is reduced by 20% when the equipment is operating in the lower electrical power range. The same models, except the FLAP models, may be supplied with the KIT BOXSMART II for standby fan (a second impulsion unit is added to the KIT BOXSMART).

**Dimensions mm**

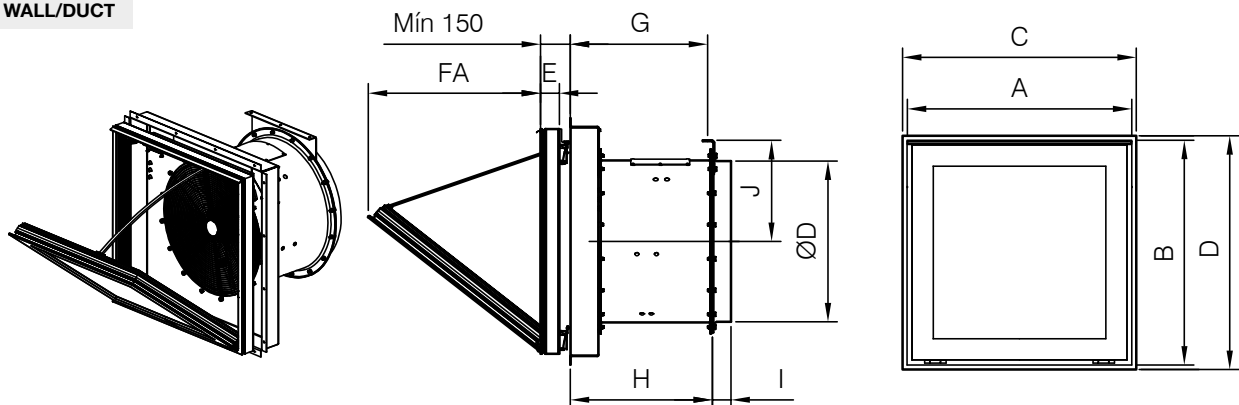
**HCT/HATCH**



	A	B	C	D	ØD1	ØD2	E	F	H	H1	J	K	L	M	N	P	Q
HCT/HATCH-63-4T-4	1300	1200	1220	1120	630	13	1300	1200	900	1000	1100	1000	900	800	1265	-	1165
HCT/HATCH-100-4T-7.5	1500	1400	1420	1320	1000	13	1500	1400	900	1000	1300	1200	1100	1000	1465	8	1365

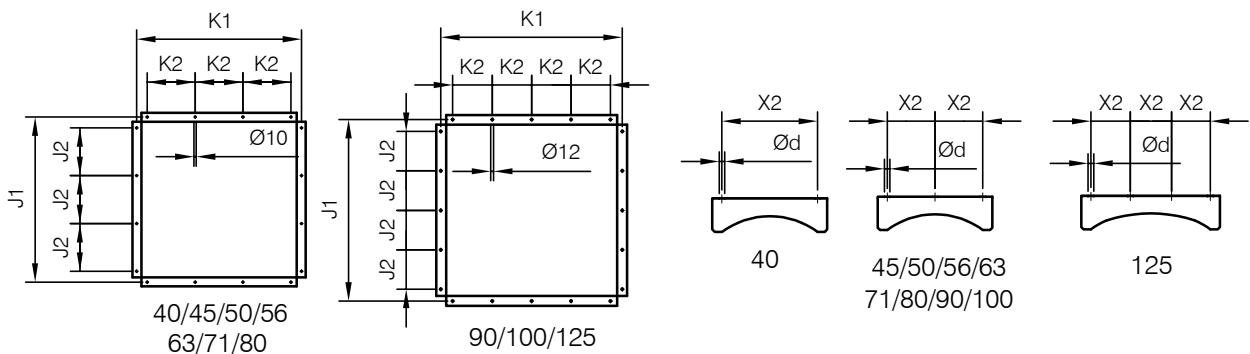
## Dimensions mm

### WALL/DUCT



Wall-mounting flange

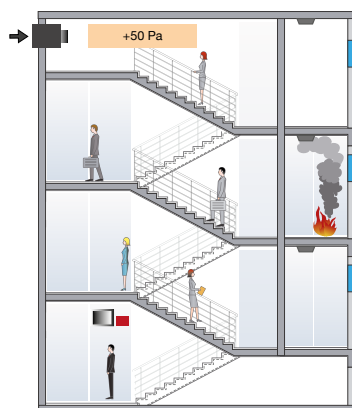
Helical ring support stand



	A	B	C	Ød	D	ØD*	E	FA	G	H	I	J	J1	J2	K1	K2	X2
WALL/DUCT-A-71	990	990	1000	13	1000	710	82	875	605	630	80	445	1090	300	1090	300	225
WALL/DUCT-A-90	1190	1190	1200	18	1200	900	82	922	605	630	100	550	1310	250	1310	250	280

\* Recommended nominal tube diameter.  
(CxD) Nominal panel opening dimension.  
FA is the opening when the hatch is upper opening.

## Application example



### Overpressure smoke control method

This system uses pressurisation by injecting air into spaces that are used as evacuation 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 evacuation routes.