

OZONISATION CELL FX SYSTEM



DESCRIPTION

The FX ozonisation cell of Expansion Electronic is suitable for the sanitation, hygiene and disinfection of plants and environments as it can degrade and eliminate any pollutant or harmful as viruses, bacteria, mites, spores, molds, insects and even harmful chemicals and unpleasant odours. The cell FX has been completely designed, created and implemented in Italy in order to ensure the highest possible reliability. The application areas that can attract the greatest advantages since its adoption are the public sector, healthcare, food and hospitality/catering. Thanks to its system of multipolar connection, you can place multiple cells according to the filtration needs and airflow; their assembly and disassembly, takes place by a simple slide-holder on the frame of the air handling unit. The integrated power electronic circuit has a led that allows the notification of the correct operation of the filter.

TECHNICAL SPECIFICATIONS

	u.m.	Model FX 300				Model FX 600			
Air speed	(m/s)	1	2	3	4	1	2	3	4
Max Air flow	m ³ /h	426	850	1274	1702	852	1700	2548	3404
Pressure drop	Ppm	0.4	0.2	0.15	0.1	0.4	0.2	0.15	0.1
O ₃ emissions	µg/m ³	785	393	294	196	785	393	294	196
Dimensions AxBxC	mm	287x592x100				592x592x100			



FUNCTIONALITY

The cell uses oxygen naturally present in the air. The air flows it into the machine, where there is an electronically generation called "corona effect" which separate oxygen molecules into atoms. The oxygen atom joins a free molecule, and and thus create ozone. In just a few minutes FX System generates a sufficient quantity of ozone able to saturate the environment. During the process the treated local has to be without people presence.

FX SYSTEM VS GENERIC HYGENIZATION

ACTION	OZONE	HYGENIZATION
SMELL	Typical	Unpleasant
POWER	Optimal oxidant	Good oxidant
ANTIVIRAL ACTIVITY	Elevate	Variable
ANTIBACTERIAL ACTIVITY	Elevate	Variable

CERTIFICATIONS

ILH BERLIN
INSTITUT FÜR LUFTHYGIENE

BSRIA

CETIAT
ensemble, innover et valider

Consiglio Nazionale delle Ricerche

ENERGIA AMBIENTE
CTI

SP
Science and Technology

POLITECNICO DI TORINO

POLITECNICO DI TORINO

IRAM

Instituto Argentino de Normalización y Certificación

CE

CCC