

**SABIANA**

ENVIRONMENTAL COMFORT



Fan Coil with **Crystall FS** Electronic Filter

Each model and version of the Sabiana Futura fan coils is available, exclusively, with the **patented Crystall FS electrostatic filter**. This is an active electronic plate filter.

The **CRYSTALL Sabiana electrostatic filter** matches the need for better air conditioning with the concepts of space and design. With this filter the various stages of air treatment are combined in one appliance.

Thanks to this new patented filter, air pollutants such as cigarette smoke, dust, pollen and most biological organisms are eliminated. In addition, as fresh air is not being introduced to obtain the best climatic conditions, there are consequential energy savings.

Purifying the air with the Sabiana **Crystall** appliance also entails no reduction of living room space, as the dimensions of the fan convector are practically unchanged (just 10 cm higher).



The positioning of the electronic filter allows simple and effective maintenance and, as it is easy to wash, its working life is practically unlimited.

The modularity of the filter components and their ease of mounting make the system extremely competitive in terms of cost compared with other types of filters present on the market.

In spring and autumn, if environmental air conditioning/heating is not required, the appliance acts simply as an air purifier.

All electrical connections are made during production. The installation of the FuturaSabiana fan coil incorporating the **Crystall electronic filter** is therefore similar to that of a normal fan coil; the only difference is the installation height, for which the filter dimensions must be taken into account.

The **Crystall FS electronic filtering system** consists of two parts: the first is a plate type electronic active filter and is fitted in the suction section of the fan coil, while the second is an electronic control and regulation board.



SABIANA

ENVIRONMENTAL COMFORT



Active plate type electronic filter

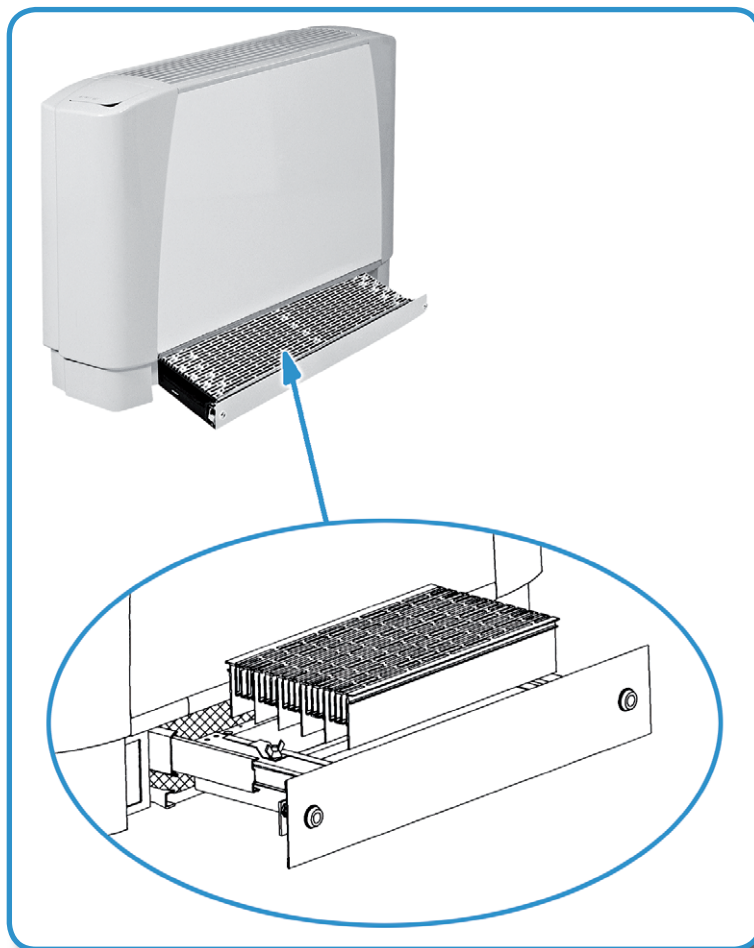
The filtering element consists of two sections: the first consists of electrodes and insulating elements, forming a self-supporting ionising frame, while the second consists of special reliable heavy duty aluminium extruded profiles (collector).

The two sections are installed in an extractable drawer mounted on lateral telescopic guides to make the extraction and maintenance of the filter easier.

The extraction of the drawer actuates a safety micro-switch that cuts off the voltage supply to the electrodes.

A LED indicates the correct operation of the filter and any need to clean it (the LED flashes on and off).

The collector can be cleaned by washing with water and ordinary detergents or steam jets (please consult the maintenance manual for further details).



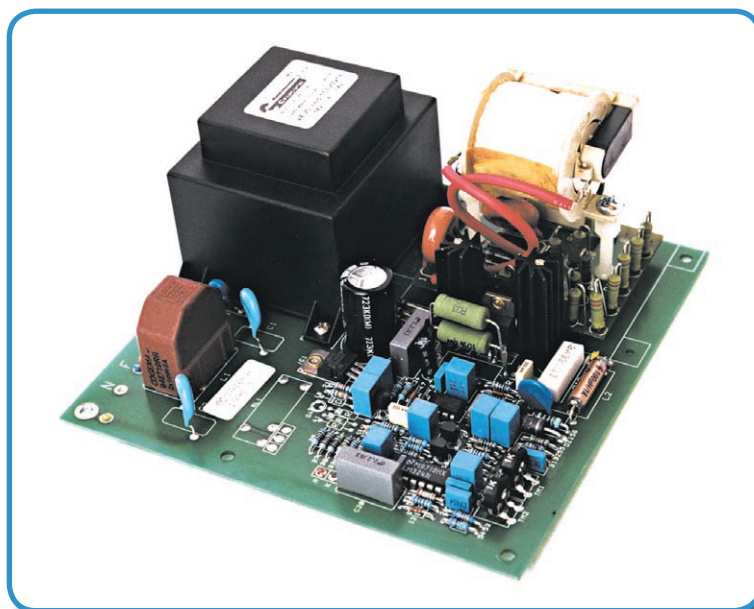
Electronic board

Controls and regulates all functions of the electronic filter.

It is appropriately protected against any operating defects of the electronic filter.

It supplies a constant voltage to the electrodes when the mains supply voltage varies ($\pm 15\%$).

The supply transformer is constructed with its primary and secondary coils physically separated and wound onto separate cores. The energy consumption depends on the size of the fan convector on which the filter is mounted, with a maximum value of about 0.02 kW.



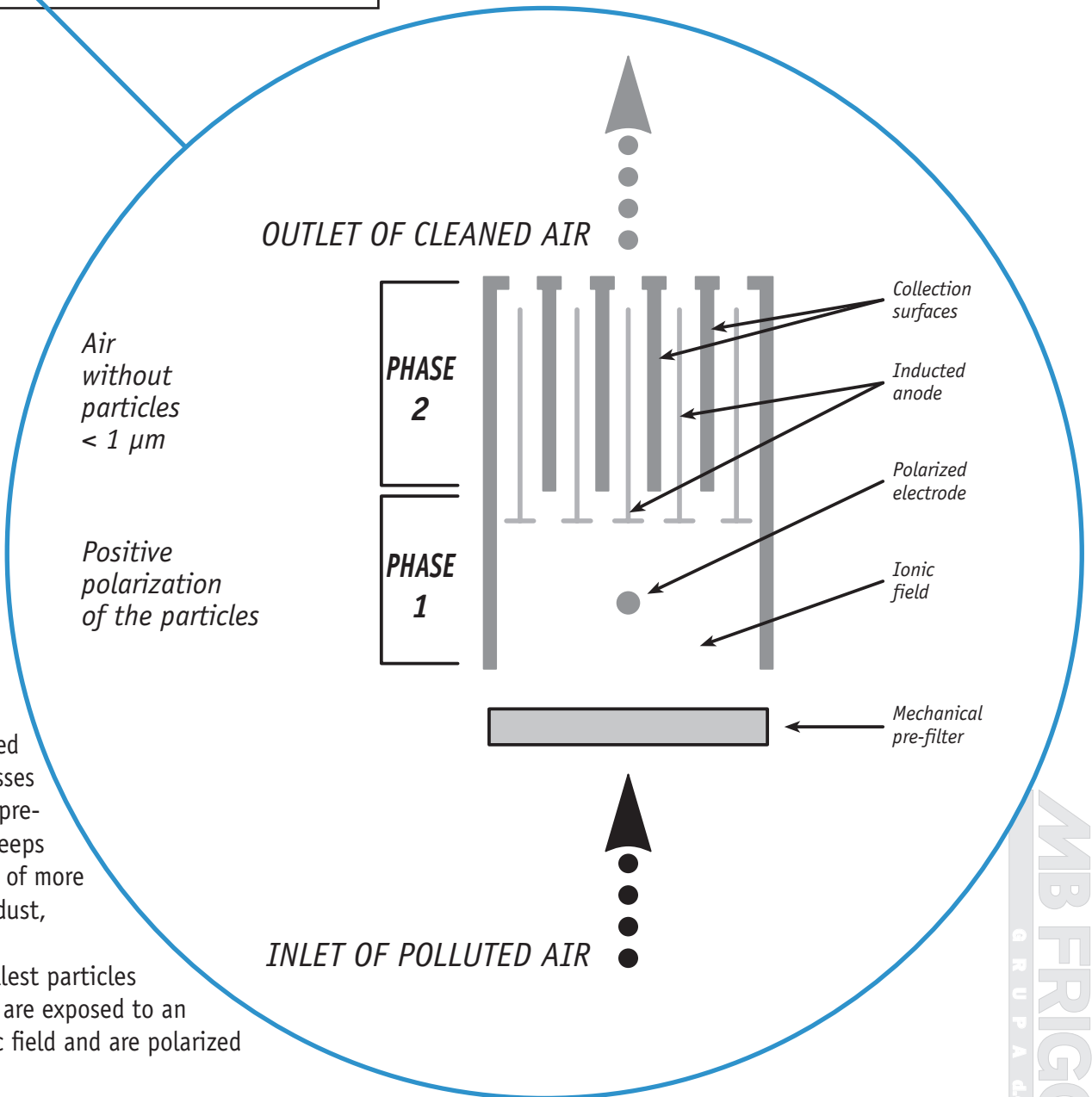
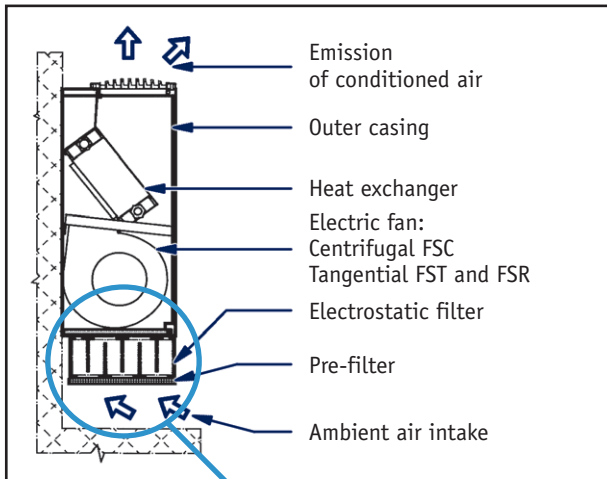


SABIANA

ENVIRONMENTAL COMFORT



Operating principle



The air is sucked in and first passes a mechanical pre-filter, which keeps away particles of more than 50 μm (dust, insects, etc.).

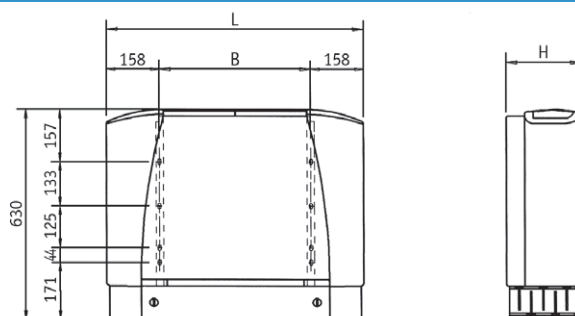
Then the smallest particles (50 \div 0.01 μm) are exposed to an intensive ionic field and are polarized (Phase 1).

The charged particles passing through the second filter section, are pushed back by the anode and attracted to the collection surfaces by a strong, induced magnetic field (Phase 2).

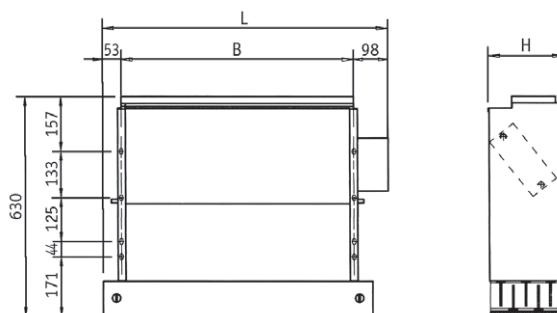
The air which leaves the unit is free from polluting particles.



Dimensions and weight



VERSION	MV - MO														MV			
RANGE	FSC/FST		FSC/FST		FSC/FST		FSC/FST		FSC/FST		FSC		FSC		FSR	FSR	FSR	FSR
	13	14	23	24	33	34	43	44	53	54	63	64	73	74	1	2	3	4
WEIGHT (kg)	19	21	25	28	29	32	30	33	36	40	46	52	47	53	15	17	23	27
B	454		669		884		884		1099		1099		1099		354	454	669	884
L	770		985		1200		1200		1415		1415		1415		670	770	985	1200
H	225		225		225		225		225		255		255		183	183	183	183



VERSION	IV - IO													
RANGE	FSC/FST		FSC/FST		FSC/FST		FSC/FST		FSC/FST		FSC		FSC	
	13	14	23	24	33	34	43	44	53	54	63	64	73	74
WEIGHT (kg)	18	20	24	27	28	31	29	32	35	39	45	51	46	52
B	454		669		884		884		1099		1099		1099	
L	605		820		1035		1035		1250		1250		1250	
H	218		218		218		218		218		248		248	

Feet

N.B.: if required, they must be selected from the beginning

