

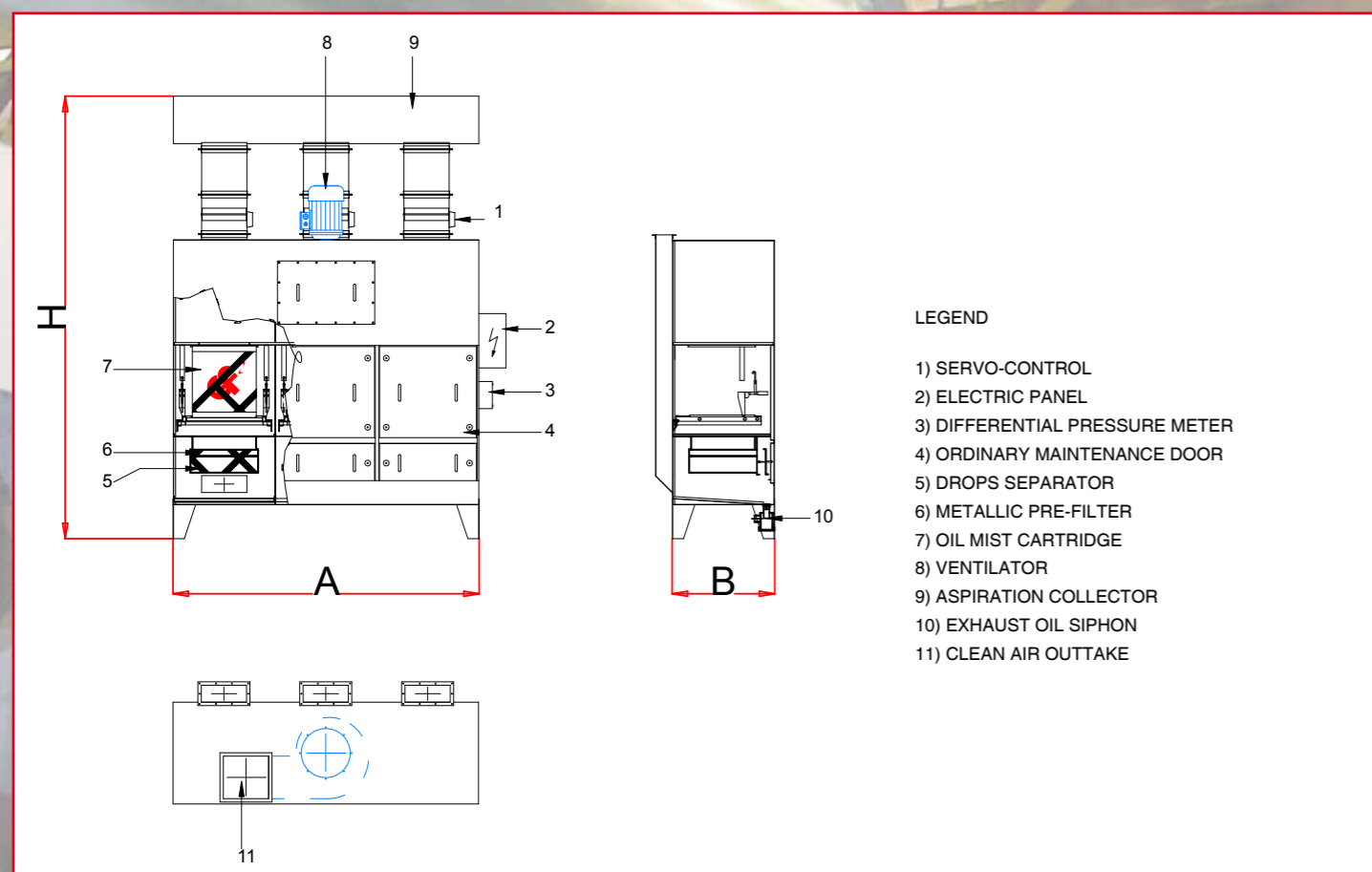


conditioning  
 aspiration  
 dust collection  
 soundproofing  
 environmental solutions



	G.F.C.1	G.F.C.2	G.F.C.3	G.F.C.4	G.F.C.6	G.F.C.8
A (mm)	850	1.700	2.550	1.700	2.550	3.400
B (mm)	850	850	850	1.600	1.600	1.600
h (mm)	2.000	2.100	2.250	2.500	2.600	2.700
Filtrating area (m <sup>2</sup> )	33	66	99	132	95	264
Air capacity (m <sup>3</sup> /h)	3.000	6.000	9.000	12.000	18.000	24.000
Weight (kg)	350	450	550	650	800	950
Logic units panel	24 / 110 / 230 V, 50 / 60 Hz					
Painting	ON DEMAND					

According to filtration and installation requests, the collector could have different footprints or kind of construction; moreover, the above mentioned dimensions do not take care about collectors and ventilators footprints.



## **DEPURATORE A CARTUCCE PER NEBBIE OLEOSE mod. G.F.C.**

Designed and built for mist and fumes produced by machining with refrigerant, such as integral oil or oily emulsions, the filter mod. GFC ensures almost total collection of these pollutants, responding to European legislation.

### TECHNICAL CHARACTERISTICS OF OPERATION AND FILTERING SYSTEM

The purification is done in two stages subsequent posts vertically:

#### SEDIMENTATION ROOM WITH SEPARATOR

The drop separator, consisting of a series of specially shaped fins to multiple folds, aims to separate, as first, the oil collected by air. This oil is collected in an underlying discharge hopper.

#### FIRST STAGE: PREFILTRATION

At this stage, which aims to stop larger particles, and avoid the overhead of the second stage, it has a metallic cell with galvanized frame, which contains, as a filtrating media, an extra thick net on alternating layers.



#### SECOND STAGE: FILTRATION WITH CARTRIDGE

The cartridges, which are designed by us and built for the purpose, consist of a special external sheath allowing the cartridge to drain the liquid collected, and prevent this enters into the flow of clean air, thanks to a highly effective filtration for the lifetime of the filter.



**Dimensions:** ø 560xh635  
**Capacity:** 3.000mc/h  
**Filter surface:** 33 m<sup>2</sup>

#### THE SUCTION FILTER IS ESSENTIALLY CONSTITUTED:

- structure in sturdy sheet thickness should
- routine maintenance doors, through which you can quickly remove the filter cartridges for
- cleaning and/or periodic replacement of filter SEPTA
- crankcase with sleeves of discharge of oil received
- sedimentation room with drop separator metallic
- first stage: prefiltration
- second stage: filtration di scarico dell'olio captato

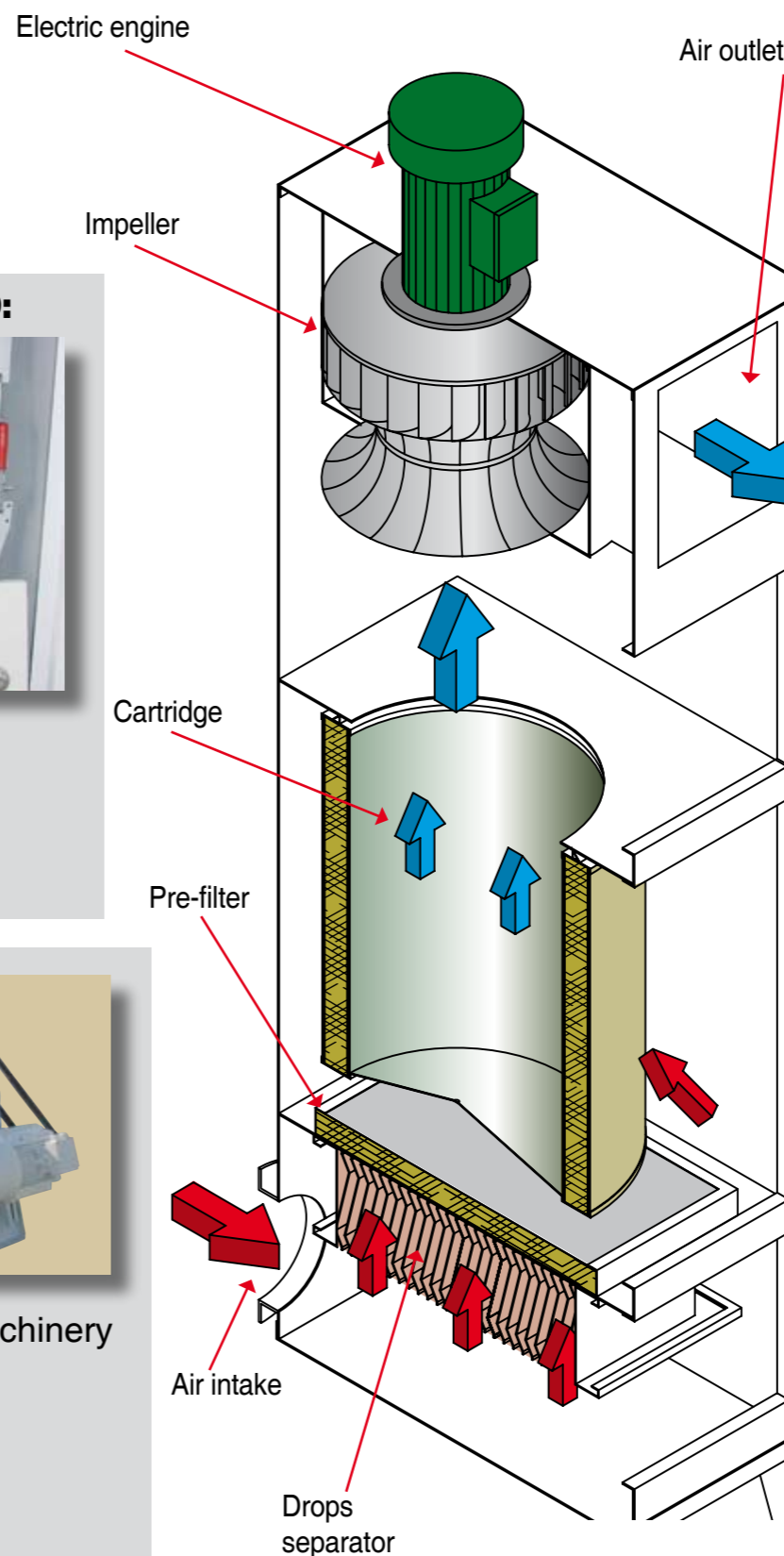


#### OPTIONAL ACCESSORIES:

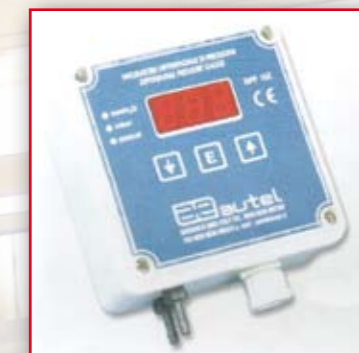
- centrifugal fan installed on the ground or directly on the roof
- cyclonated preseparator for large amounts of liquid
- silencers on chimneys



- cut fire damper, for insulation of machinery in the presence of flame
- differential pressure meter

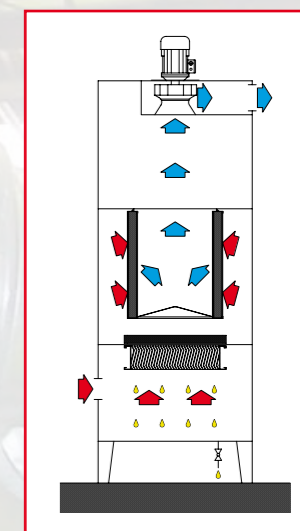


In order to test the overloading of filtrating elements, it is common to use a differential pressure meter, which has the aim to indicate differential pressure between dirty air before filtration and clean air already filtrated.



At last, totally depurated air is expelled by the collector and enters the environment by ducts and chimneys outside the plant.

#### HOW IT WORKS



During standard operations, air enters dust collector, passing through the inlet, and passes filtrating elements. The dust is collected on elements external surface and clean air flows through the centre of the elements, until reaching clean air room, going out by inlet mouth.