

# AIR EXTRACTION AND FILTRATION *Solutions*



Thanks to its long experience in the industrial suction sector, RGS Vacuum Systems has developed **a range of air suction and filtration machines for the purification** of fumes, dusts, oily mists and the most varied polluting agents present in the air of working environments.

Considering that employers must take measures to prevent or reduce, as far as possible, the development and spread of airborne pollutants, RGS dust collectors ensure the best possible **safety** and **sanitation** of the atmosphere within **the work area**.




## Fields of application



FOOD | CHEMICAL | PHARMACEUTICAL | CLEANING | CERAMIC | WOOD | PLASTIC | BUILDING | METALLURGY | STEELWORKS

## Advantages



- > **Prevention of dust dispersion** in the work environment
- > Use for **localised suction** directly on the process machine
- > **Healthy working environment**
- > **Low energy consumption** thanks to a **high flow fan**
- > Large surface filter
- > **Safety** for explosive dust extraction (**ATEX**) 

## Filter cleaning systems

**The filter** is a **fundamental** part of the industrial vacuum cleaner (*protection of the motor, cleanliness of the working environment and protection of the operators' health*), and depending on the vacuum requirements there are different filter cleaning systems.



### MANUAL FILTER SHAKER

Manual shaking cleaning system of the star filter.

- suitable for vacuuming dust and granules



### PNEUMATIC FILTER SHAKER

Pneumatic shaking cleaning system of the star filter.

- suitable for vacuuming dust and granules



### CLEANING CARTRIDGE KIT

System for continuous filter cleaning using a jet of compressed air.

- suitable for suctioning large quantities of fine dusts

# Product range - Mobile dust extractors

These machines are ideal for air extraction and filtration in small rooms and where handling of the machine itself is necessary. Equipped with a trolley with wheels, they can be easily transported even by a single operator.

Depending on the model, one to two **articulated suction arms** can be applied, allowing the desired suction area to be easily reached.



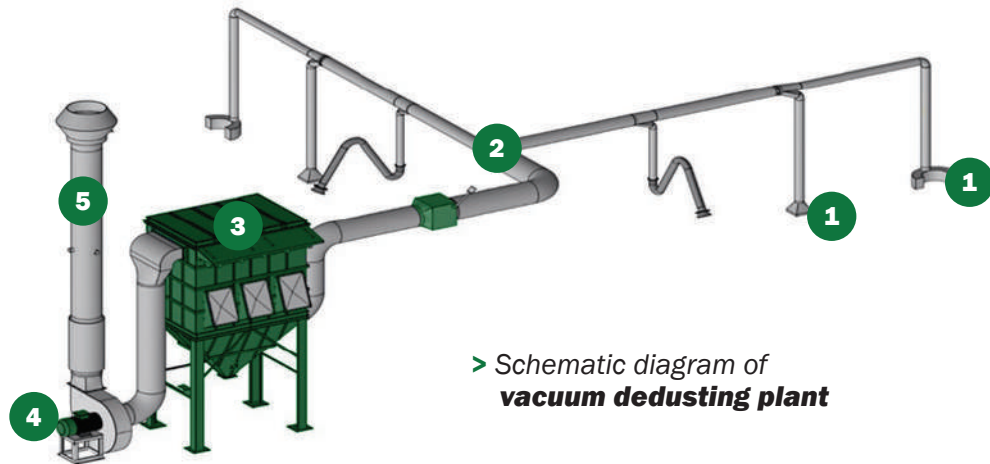
Also available in **Atex version**.



MODEL		A20FLP	A31FLP	A101FLP	A32FLP	A103FLP	A174FLP
Voltage	Volts	3Ph 230-400V/50Hz	3Ph 230-400V/50Hz	3Ph 230-400V/50Hz	3Ph 230-400V/50Hz	3Ph 230-400V/50Hz	3Ph 230-400V/50Hz
Power	kW	0,75	1,5	1,5	2,2	3	4
Max vacuum	mbar	16	22	22	35	30	45
Max air flow	m <sup>3</sup> /h	800	1200	1200	1500	3000	2500
Type of filter	-	star	star	star	star	star	star
Primary filter surface	m <sup>2</sup>	1,14	2,55	2,55	4,2	3,2	3,2
Container capacity	L	25	39	100	39	100	175
Product inlet	Ø mm	100	150	150	150	150	150
Noise level	dB(A)	74	78	78	79	79	79
Dimensions	cm	48x68x125h	64x85x170h	64x85x205h	65x90x185h	73x110x210h	73x125x240h
Weight	kg	45	80	83	92	230	235
Protection	IP	55	55	55	55	55	55



# Centralised extraction systems



## 1. SYSTEM OF COLLECTION

Extractor hood (closed, receiving, catching), mobile arm, and suction vent.

## 2. DUCTING OF SUCTION PIPE

Connecting pipe between the various collection points and the filtration system. The polluted are correctly picked up and conveyed to the air purifier (filter).

## 3. THE FILTRATION SYSTEM

Is the device that allows to separate/filter the pollutant aspirated from gaseous flow. Depending on the characteristics of the pollutants different filtration/purification systems.

## 4. ELECTRO-FAN

Is the machine for handling polluted air inside the intake system, through the creation of a negative pressure (intake) inside the ducts that connect it to the various intake points.

## 5. CHANNELING OF EXPULSION

The purified air flow shall be expelled outside in such a way as to dilute as far as possible the remaining pollutant. Re-entry into the working environment is not permitted in the case of toxic pollutants.

## OTHER RGS SOLUTIONS



### VACUUM CLEANERS

RGS Vacuum Systems offers a wide range of industrial vacuum cleaners of **various powers and capacities**: single-phase, three-phase and compressed air industrial vacuum cleaners.

### PNEUMATIC CONVEYORS

**Pneumatic conveyors systems for powders and granules** for all industrial sectors with **customization** options.



### CENTRALIZED SYSTEMS

RGS offers a wide range of components for the realization of **centralized suction systems** and **pneumatic conveying systems** for material handling. All products can be made of painted steel, stainless steel and **ATEX version** according to the needs of the customer and the application sector.

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