

# VACUUM CLEANERS

made in Italy





## RGS Vacuum Systems

RGS Vacuum Systems, since 1997, is one of the few companies specialising in the production of *Industrial Vacuum Cleaners, Pneumatic Conveyors Systems for powders and granules, Centralised Vacuum and Ventilation Systems.*

RGS Vacuum Systems specialises in the design and production of industrial vacuum cleaners, choosing together with the customer the right solution for his specific problems and needs, and following him from design to maintenance.

RGS Vacuum Systems also realises **turnkey projects** with innovative solutions tailored to the customer's needs, guaranteeing certified quality, reliability and efficiency.



## I RGS Services

Our RGS products don't just stop at a quality product, they ensure a good and efficient service: **from design to product maintenance.**



TECHNICAL INSPECTIONS  
OF CUSTOMERS' SYSTEMS  
AND PRODUCTION FACILITIES



ENGINEERING DESIGN  
OF COMPLETELY  
CUSTOMIZED PRODUCTS



MAINTENANCE



TECHNICAL-ECONOMIC FEASIBILITY  
ANALYSIS AND CHOICE OF  
THE BEST SOLUTION



INSTALLATION AND TESTING  
OF RGS MACHINERY  
AND EQUIPMENT

## I RGS machine certifications

The list of certifications that we present below is certainly necessary to guarantee customers the purchase of **products that conform to their needs in compliance with the laws in force.** From our point of view as manufacturers, we believe that the only objective of putting a compliant machine on the market is to primarily pursue **the safety of the end user.**



DIRECTIVE  
**MACHINES 2006/42/CE**



REGULATION  
**(CE) N. 1935/2004**



DIRECTIVE  
**2014/34/UE ATEX**



CERTIFICATION  
**ETL**

Therefore, RGS equipment will always be **reliable, functional,** and above all **safe** for the operator and the product handled.







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# I RGS Industrial Vacuum Cleaners

Industrial vacuum cleaners in the RGS range are the best solution for **maintenance and cleaning of machines and workplaces.**

Speed, efficiency and durability are the hallmarks of our vacuum cleaners, designed in various powers and capacities to meet every need. Suitable **for suction and removal of solids, liquids and dust/gas.** Steel frame with oven-baked epoxy paint finish, large wheels to allow the machine to move safely even on the most inaccessible surfaces, and filter cleaning systems that allow the filter to be restored without having to dismantle or blow it. Moreover, thanks to **HEPA and ULPA filters**, RGS vacuum cleaners guarantee maximum efficiency and safety in every production area.

*\* All vacuum cleaners can be equipped with a wide range of options and accessories to make the operator's work easy, light and safe.*



## I Advantages

**compact**

**industrials**

**safe**

**versatile**

**efficient**

**handy**



## Vacuum Cleaner range



**VACUUM CLEANERS  
SINGLE-PHASE**



**VACUUM CLEANERS  
THREE-PHASE**



**VACUUM CLEANERS  
BATTERY UNIT**



**VACUUM CLEANERS  
HIGH AIR FLOW**



**VACUUM CLEANERS  
OIL SERIES**



**VACUUM CLEANERS FOR  
ADDITIVE PRINTING**



**VACUUM CLEANERS  
FOOD & PHARMA**



**VACUUM CLEANERS  
ATEX**



**VACUUM CLEANERS  
COMPRESSED AIR**



**VACUUM CLEANERS  
SURFACE TREATMENT**



**VACUUM CLEANERS FOR  
SUBMERGED  
ARC WELDING**



**VACUUM CLEANERS FOR  
US MARKET**



**VACUUM CLEANERS  
PROFESSIONALS**



**PRE-SEPARATORS AND  
SEPARATORS**

# I What can you aspire to?

Our industrial vacuum cleaners are widely used in a **variety of application sectors** (*agri-food, pharmaceutical, oenological, packaging, metalworking, OEM and many others*) for the extraction of dry or partially **moist granular and/or dusty substances**.

We can vacuum **metal, plastic or paper shavings and chips**.



**CHEMICAL AND PHARMACEUTICAL**



**AGRI-FOOD**



**ENOLOGICAL AND OIL**



**PACKAGING**



**TOBACCO**



**PAPER**



**WOOD**



**AERONAUTIC**



**ELETTRONIC**



**ENERGY**



**SMOKERS**



**TEXTILE**



**TRANSPORT**



**PAINT**







**MECHANICAL**



**METALLURGICAL**



**PLASTIC**



**CERAMIC**



**NAVAL**



**OEM**



**GOLDSMITH**



**OPTICAL**



**CLEAN**



**DISPOSAL WASTE**



**SAND**



**ADDITIVE PRINTING 3D**



**SURFACE TREATMENT**



**BUILDING**



**THERMOHYDRAULICS**



**GLASS**

# SINGLE-PHASE Vacuum Cleaners

The single-phase series vacuum cleaners are the winning weapon in all cases where it is necessary to clean and suck up dusts or liquids with speed, efficiency and durability.

Thanks to the high suction power, the large surface filter with cleaning system and the complete range of accessories and options, this series of vacuum cleaners adapts perfectly to all working conditions, allowing the operator to **reduce working time** both during suction and during the disposal of recovered materials.

Thanks to the high filtering efficiency (*class L as standard, M and H as an option*), even the most harmful dust can be recovered without releasing residues into the environment, and with the help of continuous bag or hermetic bag collection systems, the operator will never come into contact with hazardous substances.



The high quality of the components used in the assembly make the vacuum cleaner able to cope with the heaviest demands and guarantee the same suction efficiency as on day one, even after years of use.







- **COMPACT:** their vertical structure allows them to move easily within the companies.
- **VERSATILE:** single-phase current is available everywhere.
- **INDUSTRIAL:** the painted steel structure guarantees its durability over time.
- **EFFICIENT:** the large star filter maintains suction and prevents clogging.
- **SAFE:** the external filter shaker allows the filter to be cleaned without the operator coming into contact with the sucked dust.
- **CONVENIENT:** the dust collection tank detaches from the rest of the machine, allowing it to be emptied quickly and easily.

# Single-Phase Vacuum Cleaners

## series ONE

### The most compact and versatile

Single-phase industrial vacuum cleaners are ideal for traditional cleaning in industrial workplaces where a small, light, quiet and efficient vacuum cleaner is needed. Practical and manoeuvrable, these models have a small footprint to cope with space and height requirements while maintaining a large filtering surface and suction capacity.



Technical Data	Unit	ONE21	ONE22	ONE22FP	ONE43	ONE103
Voltage	V	1~ 230V/50-60Hz	1~ 230V/50-60Hz	1~ 230V/50-60Hz	1~ 230V/50Hz	1~ 230V/50-60Hz
Power	Watt	1100	2200	2200	3300	3300
Maximum depression	mbar	210	210	210	225	210
Air flow rate	m³/h	170	340	340	510	510
Container capacity	L	25	25	20	40	100
Dimensions	cm	48x63x104h	48x63x104h	49x49x102h	62x53x113h	78x64x156h
Weight	kg	30	32	23	40	62



**Filter shaker**  
cleaning system



**Star filter**  
Large surface area



**Tank release**  
tank with wheels





# Single-Phase Vacuum Cleaners

## series ECO

### The most compact and robust

2200W and 3300W single-phase industrial vacuum cleaners are ideal for extracting dust, liquids and residues in even the toughest industrial work environments because they are equipped with a robust metal head. They are available with 39, 65 and 100 L container capacities.



Technical Data	Unit	ONE32ECO	ONE63ECO	ONE103ECO	ONE63ECOC
Voltage	V	1~ 230V/50-60Hz	1~ 230V/50-60Hz	1~ 230V/50-60Hz	1~ 230V/50-60Hz
Power	Watt	2200	3300	3300	5250 (3300+1500)
Maximum depression	mbar	210	210	210	210
Air flow rate	m³/h	340	510	510	510
Container capacity	L	39	65	100	65
Dimensions	cm	78x64x121h	78x64x135h	78x64x155h	70x92x150h
Weight	kg	53	57	62	90



**Filter shaker**  
cleaning system



**Star filter**  
Large surface area



**Tank release**  
tank with wheels



# Single-Phase Vacuum Cleaners

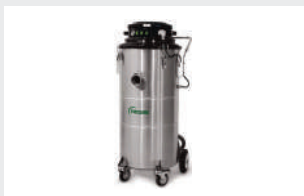
## ONE series FOR LIQUIDS

### Ideal for liquid suction

2200 Watt single-phase industrial vacuum cleaners, ideal for specific use with **water or non-aggressive liquids**. The WP model is equipped with a pump to expel the sucked liquids via a manual valve. The container has a capacity of 85 L and can be made of painted steel or stainless steel. **The vacuum cleaner is supplied with an accessory kit.**



Technical Data	Unit	ONE82WD	ONE82WPX1
Voltage	V	1~ 230V/50-60Hz	1~ 230V/50-60Hz
Power	Watt	2200	2200
Maximum depression	mbar	210	210
Air flow rate	m <sup>3</sup> /h	340	340
Container capacity	L	85	85
Dimensions	cm	55x60x126h	55x60x126h
Weight	kg	30	30



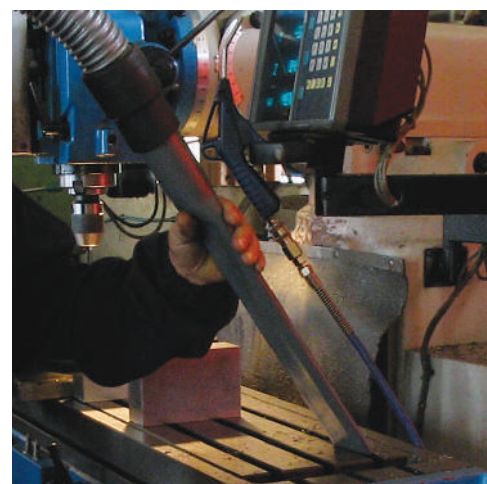
**Stainless steel version**



**Mechanical float to stop suction**



**Expulsion pump**  
to allow suction  
and continuous discharge





# Single-Phase Vacuum Cleaners

## series A WITH LATERAL CHANNEL TURBINE

### The smallest and for continuous use

Three-phase industrial vacuum cleaners with a top-mounted motor, ideal for **continuous-use industrial applications** where small footprints are important. Equipped with multi-voltage motors, they are fitted with a star filter, manual filter shaker and removable container with 25, 40 and 65 L capacity.



Technical Data	Unit	A21PM	A62PM	A42PKM
Voltage	V	1~ 230V/50Hz	1~ 230V/50Hz	1~ 230V/50Hz
Power	kW	1.5	2.2	2.2
Maximum depression	mbar	225	300	170
Air flow rate	m³/h	210	310	420
Container capacity	L	25	65	40
Dimensions	cm	47x61x135h	64x77x162h	62x53x133h
Weight	kg	60	78	80



**Asynchronous single-phase**  
motors maintenance-free  
suitable for continuous use



**Star filter**  
large surface area with  
external filter shaker



**Tank release**  
tank with wheels



# THREE-PHASE Vacuum Cleaners

RGS Vacuum Systems offers a wide range of three-phase industrial vacuum cleaners of various powers and capacities.

Expanded in the range of motors, now available from 0.75 kW to 20/25 kW, and in the filter surfaces, available from 1.9 to 3.4m<sup>2</sup>, each customer can find the right solution for their needs. Thanks to the use of side channel suction units and the total absence of mechanical parts subject to wear, this range of vacuum cleaners is particularly suitable for prolonged use, **even 24 hours a day.**

A robust one-piece frame, a choice of all-steel or ABS enclosures, quick release of the container, and the availability of numerous accessories and optional extras are all part of this value-for-money vacuum cleaner.

This range of vacuum cleaners is suitable for general **cleaning of premises and machines or continuous suction on packaging and processing machines.**







- **DURABLE:** the three-phase asynchronous motor, with direct drive to the fan, allows the machine to be used 24/H x 7 days.
- **POWERFUL:** motors up to 25 kW with vacuum levels to 5,000 mm H<sub>2</sub>O.
- **EFFICIENT:** they can be equipped with continuous filter cleaning systems, keeping filtration efficiency unchanged over time by preventing clogging.
- **SAFE:** the external filter shaker allows the filter to be cleaned without the operator coming into contact with the sucked dust.
- **CONVENIENT:** the dust collection tank detaches from the rest of the machine, allowing it to be emptied quickly and easily.

# Three-Phase Industrial Vacuum Cleaners

## COMPACT series

### The most compact and for continuous use

Three-phase industrial vacuum cleaners with a top-mounted motor, ideal for **continuous use industrial applications** where small footprints are important. Equipped with multi-voltage motors, they are fitted with a star filter, manual filter shaker and removable container with 25, 40 and 65 L capacity.



Technical Data	Unit	A21P	A63P	A64PK	A42PK
Voltage	V	3~ 400V/50Hz	3~ 400V/50Hz	3~ 400V/50Hz *	3~ 400V/50Hz *
Power	kW	1.5	3	4	2.2
Maximum depression	mbar	250	300	300	170
Air flow rate	m³/h	210	320	410	410
Container capacity	L	25	65	65	40
Dimensions	cm	47x61x135h	64x77x162h	64x77x162h	62x53x133h
Weight	kg	60	80	82	80

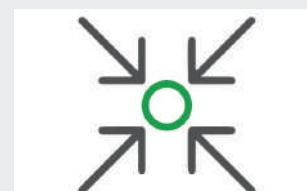
\* other voltages and frequencies available on request



**Asynchronous three-phase motors** maintenance-free suitable for continuous use



**Star filter**  
large surface area with  
**external filter shaker**



**Compact, powerful and  
with small footprint**





# Three-Phase Industrial Vacuum Cleaners

## EP COMPACT series

### The most practical and efficient

The three-phase industrial vacuum cleaners of the EP series are the **ideal solution for cleaning and extracting dust, liquids and residues in industrial workplaces**, where an efficient, practical, reliable and at the same time economical vacuum cleaner is needed. Equipped with multi-voltage motors, they are equipped with a 1.9 m<sup>2</sup> star filter, manual filter shaker and 39 and 65 L collection container with quick release, easy extraction.



Technical Data	Unit	A346/30EP	A346/60EP	A546/30KEP	A546/60KEP
Voltage	V	3~ 400V/50Hz *	3~ 400V/50Hz *	3~ 400V/50Hz *	3~ 400V/50Hz *
Power	kW	2.2	2.2	4	4
Maximum depression	mbar	300	300	300	300
Air flow rate	m <sup>3</sup> /h	310	310	410	410
Container capacity	L	39	65	39	65
Dimensions	cm	64x112x121h	64x112x135h	64x112x121h	64x112x135h
Weight	kg	115	115	142	142

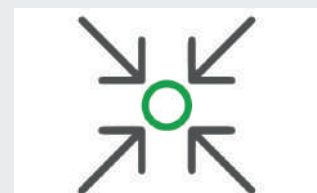
\* other voltages and frequencies available on request



**Asynchronous three-phase motors** maintenance-free suitable for continuous use



**Star filter**  
large surface area with  
**external filter shaker**



**Compact, powerful and  
with small footprint**



# Three-Phase Industrial Vacuum Cleaners

## ECO serie UP TO 4 KW

### The most robust and heavy-duty

Three-phase industrial vacuum cleaners with multi-voltage motor, ideal for **extracting dust, liquids and residues in even the toughest industrial working environments**, as they are equipped with a robust steel casing. They are available with a removable 100 L capacity container and are equipped with a large surface area star filter (1.9m<sup>2</sup>) and manual filter shaker.



Technical Data	Unit	A346ECO	A546KECO	A546ECO	A546KECOC	A546KECOC.1
Voltage	V	3~ 400V/50Hz *	3~ 400V/50Hz *	3~ 400V/50Hz *	3~ 400V/50Hz *	3~ 400V/50Hz *
Power	kW	2.2	4	4	4	5.5 (4+1.5)
Maximum depression	mbar	300	280	450	280	280
Air flow rate	m <sup>3</sup> /h	310	540	310	550	550
Container capacity	L	100	100	100	100	100
Dimensions	cm	64x113x123h	65x110x152h	65x110x152h	65x110x152h	65x110x152h
Weight	kg	115	135	135	135	145

\* other voltages and frequencies available on request



**Asynchronous three-phase motors** maintenance-free suitable for continuous use



**Star filter**  
large surface area with  
**external filter shaker**



Possibility of mounting **filter systems with continuous cleaning** to maintain efficient filtration





# Three-Phase Industrial Vacuum Cleaners

## ECO series OVER 4 KW

### The most robust and heavy-duty

Three-phase industrial vacuum cleaners with multi-voltage motor, ideal for **extracting dust, liquids and residues in even the toughest industrial work environments**, as they are equipped with a robust steel casing. They are available with a removable 100 L capacity container and are equipped with a large surface area star filter (1.9m<sup>2</sup> - 2.55m<sup>2</sup>) and manual filter shaker.



Technical Data	Unit	A746KECO	A746ECO	A1046KECO	A1046ECO
Voltage	V	3~ 400V/50Hz *	3~ 400V/50Hz *	3~ 400V/50Hz *	3~ 400V/50Hz *
Power	kW	5.5	5.5	7.5	7.5
Maximum depression	mbar	330	470	280	350
Air flow rate	m <sup>3</sup> /h	540	320	700	520
Container capacity	L	100	100	100	100
Dimensions	cm	65x120x175h	65x120x152h	65x120x175h	65x120x175h
Weight	kg	170	170	170	170

\* other voltages and frequencies available on request



**Asynchronous three-phase motors** maintenance-free suitable for continuous use



**Star filter**  
large surface area with  
**external filter shaker**



Possibility of mounting **filter systems with continuous cleaning** to maintain efficient filtration



# Three-Phase Industrial Vacuum Cleaners

## series LARGE POWER OVER 4 KW

### The strongest and most powerful

Three-phase industrial vacuum cleaners of robust construction and high power: equipped with 7.5, 8.5, 11 and 12.5 kW multi-voltage motors. They can be used in the **toughest working environments**, where a powerful and efficient vacuum cleaner is needed. 175 L collection container, Ø560 easily removable and large surface area star filter - Ø560 - 3.4 m<sup>2</sup>.



Technical Data	Unit	A1056	A1056K	A1256K	A1556	A1856K
Voltage	V	3~ 400V/50Hz *	3~ 400V/50Hz *	3~ 400V/50Hz *	3~ 400V/50Hz *	3~ 400V/50Hz *
Power	kW	7.5	7.5	8.5	11	12.5
Maximum depression	mbar	520	225	360	520	360
Air flow rate	m <sup>3</sup> /h	540	780	1.050	520	1.050
Container capacity	L	175	175	175	175	175
Dimensions	cm	74x157x187h	74x157x187h	74x157x187h	74x157x187h	74x157x187h
Weight	kg	375	300	380	400	380

\* other voltages and frequencies available on request



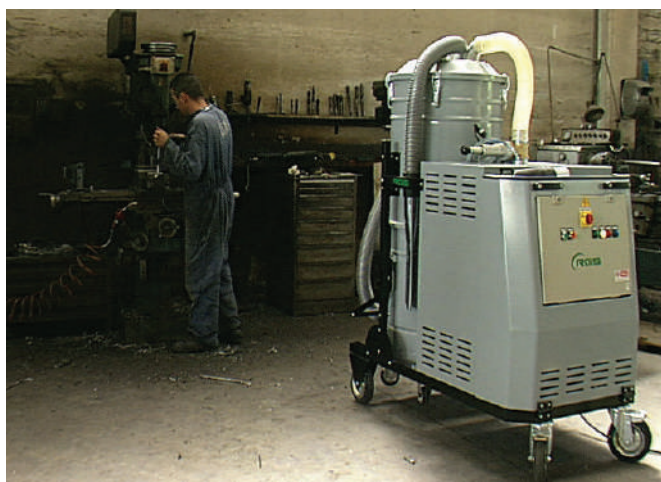
**Powerful three-phase motors** asynchronous motors suitable for heavy and continuous use. Already prepared, via **PLC in the switchboard**, for centralised systems with remote start-up via a special outlet or configurations on specification.



**Recovery tank of large dimensions and extreme robustness**, designed for the collection of large quantities of material.



Possibility of mounting **filter shaking automatic** via pneumatic piston or electric motor.





# Three-Phase Industrial Vacuum Cleaners

## series LARGE POWER OVER 4 KW

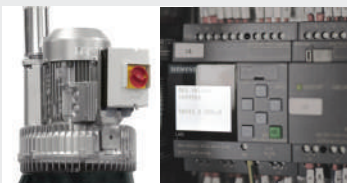
### The strongest and most powerful

Highly powerful and exceptionally robust three-phase industrial vacuum cleaners with 20 kW multi-voltage motor. Ideal for **heavy-duty applications and capable of vacuuming large quantities of materials or handling many suction points simultaneously**. Equipped with a 175 L collection container on which it is possible to attach a bracket for lifting with a forklift truck, or, in combination with 400 or 800 L separators, they are the ideal solution for suctioning large quantities of heavy-duty *products such as sand, cement, gravel, etc...* The Ø780's filtering unit is composed of 4 cartridges with automatic cleaning by compressed air, which guarantees excellent filtering efficiency even for the finest dust.



Technical Data	Unit	A3078	A3080KC
Voltage	V	3~ 400V/50Hz *	3~ 400V/50Hz *
Power	kW	20	20
Maximum depression	mbar	600	320
Air flow rate	m³/h	1.100	2.350
Container capacity	L	175	175
Dimensions	cm	89x175x240h	89x175x240h
Weight	kg	520	520

\* other voltages and frequencies available on request



**Powerful three-phase motors** asynchronous motors suitable for heavy and continuous use. Already prepared, via **PLC in the switchboard**, for centralised systems with remote start-up via a special outlet or configurations on specification.



**Recovery tank of large dimensions and extreme robustness**, designed for the collection of large quantities of material.



Possibility of mounting **filter shaking automatic** via pneumatic piston or electric motor.



# BATTERY UNIT

## Vacuum Cleaners

**Battery-powered industrial vacuum cleaner particularly suitable for cleaning large spaces.**

In fact, thanks to the possibility of use without a mains connection, i.e. no constraints due to cables, the operator is able to move around freely.

This vacuum cleaner has great flexibility of use, and can be used to easily clean floors thanks to the fixed suction cup mounted at the front (optional), but also as an industrial vacuum cleaner for cleaning machinery, work centres, dust removal.

- Battery power supply without connection cable
- Compartment designed to accommodate 2 batteries





# Battery Unit Vacuum Cleaners

## ECO24 series

### Great flexibility and no cable constraints

Industrial vacuum cleaner powered by 24 Vdc batteries, with a power output of 1350 Watts, ideal for **cleaning the floor without a cable connection**. The machine comes complete with the battery housing and both gel and acid batteries and their power supplies are available as options. It retains the same filtration characteristics as other single-phase vacuum cleaners, has a removable 65 L container and is ideal for use with a front suction nozzle.



Technical Data	Unit	ONE63ECO24
Voltage	V	24Vdc
Power	Watt	1350
Maximum depression	mbar	120
Air flow rate	m <sup>3</sup> /h	410
Container capacity	L	65
Dimensions	cm	80x68x138h
Weight with batteries	kg	126



24V DC head



Battery compartment



Battery charger



# HIGH AIR FLOW Vacuum Cleaners

RGS Vacuum Systems has developed a range of air extraction and filtration machines for the purification of fumes, dust, oil mists and a wide variety of pollutants 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 sanitisation of the atmosphere within the work area.**







- **Prevention of dust dispersion in the working environment**
- Used for local extraction 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)**





# I High Air Flow Vacuum Cleaners

## series A COMPACT HIGH AIR FLOW

### The safest and with high filtration efficiency

High-flow industrial vacuum cleaners are ideal for all applications where **suction is large and airborne dust needs to be captured**. 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 also be easily transported by a single operator. Depending on the model, **one to two articulated suction arms can be applied**, which allow the desired suction area to be easily reached.



Technical Data	Unit	A20FLP	A31FLP	A101FLP
Voltage	V	3~ 400V/50Hz *	3~ 400V/50Hz *	3~ 400V/50Hz *
Power	kW	0.75	1.5	1.5
Maximum depression	mbar	16	27	27
Air flow rate	m³/h	800	1200	1200
Container capacity	L	25	39	100
Dimensions	cm	48x68x125h	64x85x170h	64x85x205h
Weight	kg	45	80	83

\* other voltages and frequencies available on request



**Asynchronous three-phase motors** maintenance-free suitable for continuous use



Large filter surface with manual **filter shaker as standard**. Possibility of installing automatic **filter shaking with continuous cleaning**



Available in versions **with or without self-supporting suction arm**





# High Air Flow Vacuum Cleaners

## series A COMPACT HIGH AIR FLOW

### The safest and with high filtration efficiency

High-flow industrial vacuum cleaners are ideal for all applications where **suction is large and airborne dust needs to be captured**. 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 also be easily transported by a single operator. Depending on the model, **one to two articulated suction arms can be applied**, which allow the desired suction area to be easily reached.



Technical Data	Unit	A32FLP	A103FLP	A174FLP
Voltage	V	3~ 400V/50Hz *	3~ 400V/50Hz *	3~ 400V/50Hz *
Power	kW	2.2	3	4
Maximum depression	mbar	35	30	45
Air flow rate	m³/h	1.500	3.000	2.500
Container capacity	L	39	100	175
Dimensions	cm	65x90x185h	73x110x210h	73x125x240h
Weight	kg	92	230	235

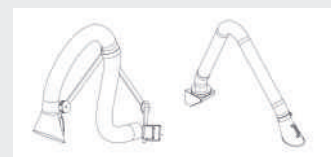
\* other voltages and frequencies available on request



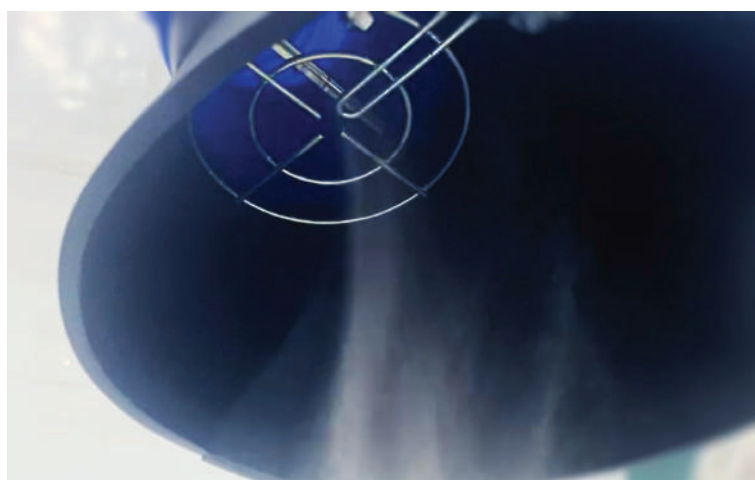
**Asynchronous three-phase motors** maintenance-free suitable for continuous use



Large filter surface with manual **filter shaker as standard**. Possibility of installing automatic **filter shaking with continuous cleaning**



Available in versions **with or without self-supporting suction arm**





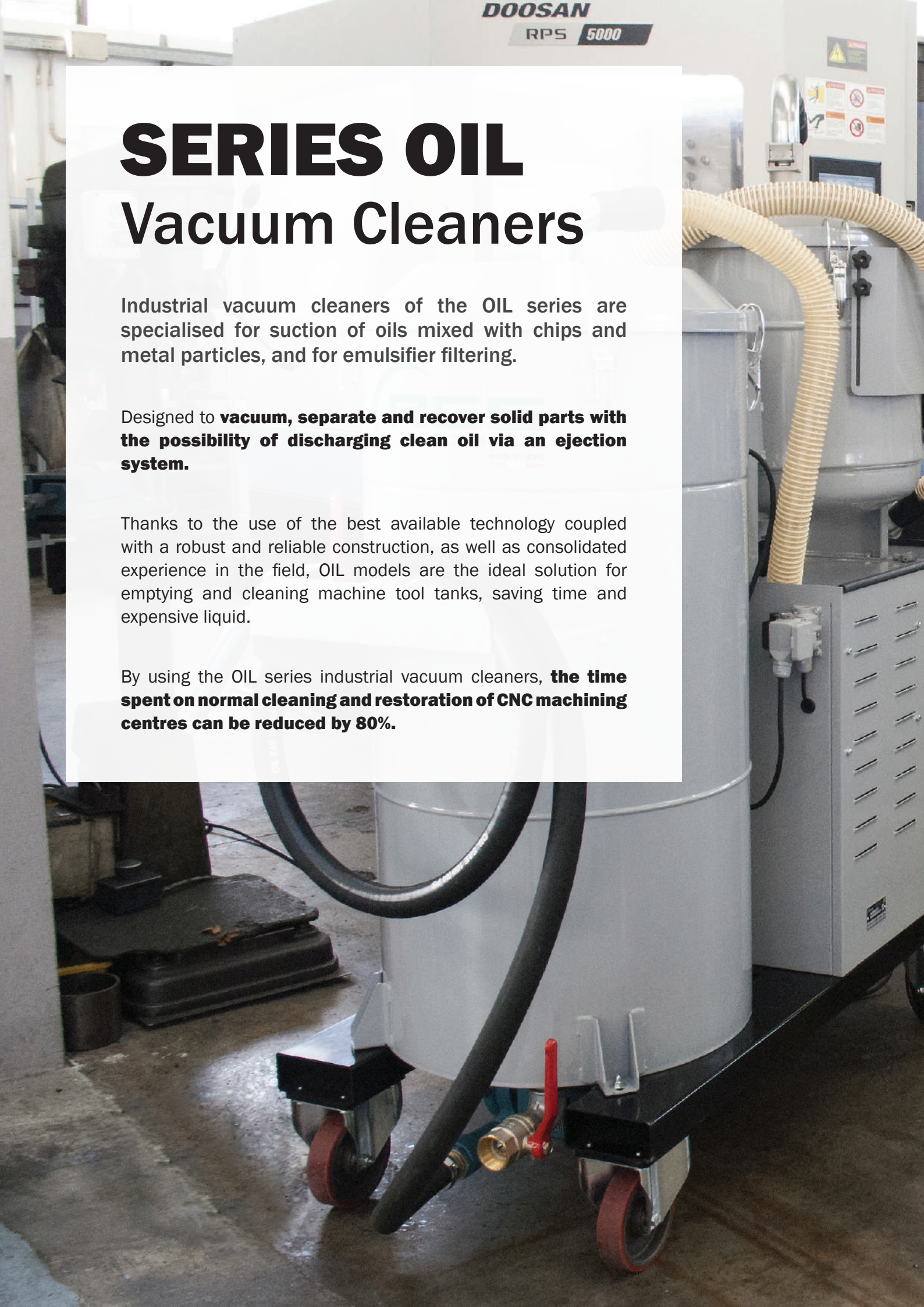
# SERIES OIL Vacuum Cleaners

Industrial vacuum cleaners of the OIL series are specialised for suction of oils mixed with chips and metal particles, and for emulsifier filtering.

Designed to **vacuum, separate and recover solid parts with the possibility of discharging clean oil via an ejection system.**

Thanks to the use of the best available technology coupled with a robust and reliable construction, as well as consolidated experience in the field, OIL models are the ideal solution for emptying and cleaning machine tool tanks, saving time and expensive liquid.

By using the OIL series industrial vacuum cleaners, **the time spent on normal cleaning and restoration of CNC machining centres can be reduced by 80%.**







- **EMPTYING AND CLEANING THE TANKS OF THE MACHINE TOOLS** saving considerable time and expensive liquid.
- **REDUCTION OF 80% OF THE TIME TAKEN** for normal cleaning and restoration of CNC machining centres.
- **SUCTION OF LIQUIDS AND SOLIDS SIMULTANEOUSLY**



# I Series Oil Industrial Vacuum Cleaners

## SINGLE-PHASE OIL series

### The most compact and manoeuvrable

A compact and handy single-phase industrial vacuum cleaner, suitable for use alongside even the smallest work centres, equipped with **3 powerful single-phase motors with independent starting**, thanks to which it is always possible to obtain the right suction power. The automatic liquid stop system allows the right amount of liquid to be sucked in at all times, guaranteeing the safety of workers and simplifying operations, while the sucked fluid is discharged simply by acting on the tap valve at the bottom of the drum.



Technical Data	Unit	ONE103OIL
Voltage	V	1~ 230-400V/50Hz
Power	kW	3.3
Maximum depression	mbar	210
Air flow rate	m³/h	510
Liquid container capacity	L	100
Solids container capacity	L	40
Dimensions	cm	78x64x120h
Weight	kg	62



Structure completely in painted steel and specific **anti-oil seals**



**Separation systems chip/liquid** for the recovery of emulsifying oils





# Series Oil Industrial Vacuum Cleaners

## series OIL THREE-PHASE

### The most versatile and heavy-duty

Three-phase industrial vacuum cleaner, compact and versatile, suitable for **operating for long periods** even in the heaviest applications. It has the same basic features as ONE1030IL, but differs in pump type and liquid discharge system. It is equipped with a three-phase pump, an **automatic liquid shut-off system and a flow reversal valve**. The latter device allows the pump's blown air to be used to push the sucked liquid out of the container, guaranteeing high flow rates and heads even without the use of a secondary ejection pump.



Technical Data	Unit	A1040IL
Voltage	V	3~ 400V/50Hz *
Power	kW	3
Maximum depression	mbar	300
Air flow rate	m³/h	320
Liquid container capacity	L	100
Solids container capacity	L	40
Dimensions	cm	78x64x160h
Weight	kg	115

\* other voltages and frequencies available on request



Structure completely in painted steel and specific **anti-oil seals**



**Separation systems chip/liquid** for the recovery of emulsifying oils



# I Series Oil Industrial Vacuum Cleaners

## series OIL THREE-PHASE

### The most compact and heavy-duty

Three-phase industrial vacuum cleaners suitable for operating for long periods even in the **heaviest applications**. Equipped with a three-phase side channel pump enclosed in a protective casing, they are particularly compact with a useful liquid holding capacity of 200L. In addition, the vacuum cleaner is equipped with a flow reversal valve and a raised swarf container that can be tilted by means of a special gearbox.

- It is also available in a **P version**, with an independent ejector pump. This variant allows suction, separation, filtering and ejecting the liquid simultaneously.
- Additionally, a **high head version is available**, suitable for whole cutting oil and muddy solid residues.
- Operation with automatic liquid discharge (**OPT**) is possible.



Technical Data	Unit	A2040IL-IMEC A2040IL-I	A2040IL-P	A2070IL-P
Voltage	V	3~ 400V/50Hz *	3~ 400V/50Hz *	3~ 400V/50Hz *
Power	kW	3	3 + 0.55	5.5 + 0.55
Maximum depression	mbar	300	300	450
Air flow rate	m³/h	310	310	310
Liquid container capacity	L	200	200	200
Solids container capacity	L	60	60	60
Dimensions	cm	151x65x180h	151x65x180h	151x65x180h
Weight	kg	200	210	240

\* other voltages and frequencies available on request



**Collection hopper** for the 60L solid fraction hopper with manual gear motor for convenient emptying of the collected product



Available version with **ejector pump or reversal flow**



**Filtration capacity of the suctioned liquid up to 100 microns** with a special filter to inserted in the hopper





# Series Oil Industrial Vacuum Cleaners

## series OIL THREE-PHASE

### The most robust and heavy-duty

Three-phase industrial vacuum cleaners suitable to **operate for long periods even in the heaviest applications**, suitable for the largest work centres or the servicing of several stations. Equipped with a three-phase side channel pump enclosed in a protective casing, they are particularly compact with a useful liquid holding capacity of 400L and 600L. In addition, the vacuum cleaners are equipped with an independent centrifugal pump and a raised swarf container that can be tilted by means of a special gearbox.



Technical Data	Unit	A4070IL-P	A6150IL-P
Voltage	V	3~ 400V/50Hz *	3~ 400V/50Hz *
Power	kW	5.5 + 0.55	12.5 (11 + 1.50)
Maximum depression	mbar	450	500
Air flow rate	m <sup>3</sup> /h	310	520
Liquid container capacity	L	400	600
Solids container capacity	L	60	60
Dimensions	cm	135x70x200h	150x75x215h
Weight	kg	350	480

\* other voltages and frequencies available on request



The machines with the **highest capacity and power in the range**



**Suitable for the dense and stubborn**



Structurally suitable for the **most extreme situations and heaviest jobs**



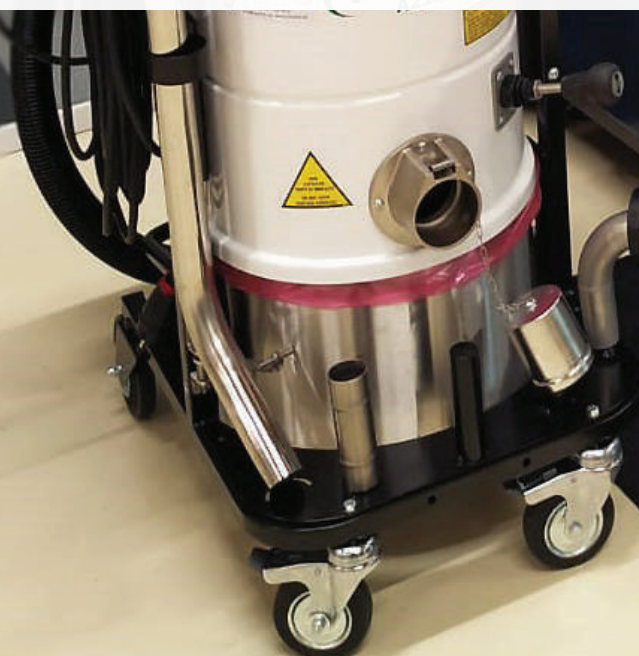
# Vacuum Cleaners for **ADDITIVE PRINTING**

The new additive printing technology is spreading fast in the field of metalworking and prototyping.

Due to its extreme precision, low cost and speed of execution, this technology is used for the production of prototypes, low-series and customised special parts.

During the SLM (Selective Laser Melting) and DMLS (Direct Metal Laser Sintering) additive techniques, **RGS vacuum cleaners safely extract explosive and non-explosive powders.** Equipped with a recovery and sifting system for unused powders, they allow the powders to be reused in other printing processes, given their high cost.

- **CLEANING OF FINISHED PARTS:** to allow the recovery of dust.
- **PRINTER CLEANING:** to avoid contamination, cross-contamination of different types of powders.
- **CLEANLINESS OF THE WORKING ENVIRONMENT:** for keep the level of contamination low.





# Vacuum Cleaners for Additive Printing

## series IN

### For the maintenance and cleaning of your metal powder 3D printer

ATEX-certified vacuum cleaners specifically for inertising reactive and potentially explosive metal dusts with liquid. The special liquid bath (water or oil) ensures that the aspirated dust cannot react and ignite, or worse, explode. The practical drain cock located on the tank allows the machine to be emptied of the liquid without effort on the part of the user. The contact parts, made of satin-finished stainless steel, not only make the machine's appearance extremely pleasing, but also guarantee a longer life for the materials and intrinsic safety from the risk of shock ignition. A safety (or vent) valve is positioned on the tank to ensure that the dangerous concentration of hydrogen (developed through hydrolysis) is expelled if water is used as an inerting liquid if aluminium powders are recovered. The vacuum cleaner also has a coalescing filter that traps any vapours should they be generated as a result of the turbulence produced by the backflow of air.

*By using the K.SE.018X cyclone separator, 99% of the dust is recovered and the risk of contamination between the different materials treated is avoided.*

Available A21PMX1.3D version without inerting **ideal for polymer powder 3D printers** (ref. page 53).



Technical Data	Unit	A21PMINX1.3D	AD36INX1.3D	A346/60EPINX1.3D	K.SE.018X
Voltage	V	1~ 230V/50Hz	630NI/min	3~ 400V/50Hz *	
Power	kW	1.5	-	3.4	
Maximum depression	mbar	250	320	300	
Air flow rate	m³/h	220	120	310	
Liquid container capacity	L	25	25	60	
Dust container capacity	L	-	-	25	20
Dimensions	cm	47x61x135h	48x65x118h	64x112x155h	
Weight	kg	60	36	160	

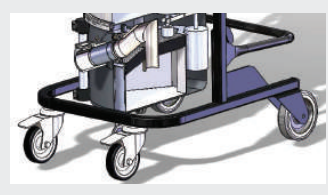
\* other voltages and frequencies available on request



**Induction motor single-phase**  
or three-phase ATEX certified



**Large anti-static star filter**  
with integrated manual shaker



**Tank** with liquid abatement  
system to inertising  
reactive dust





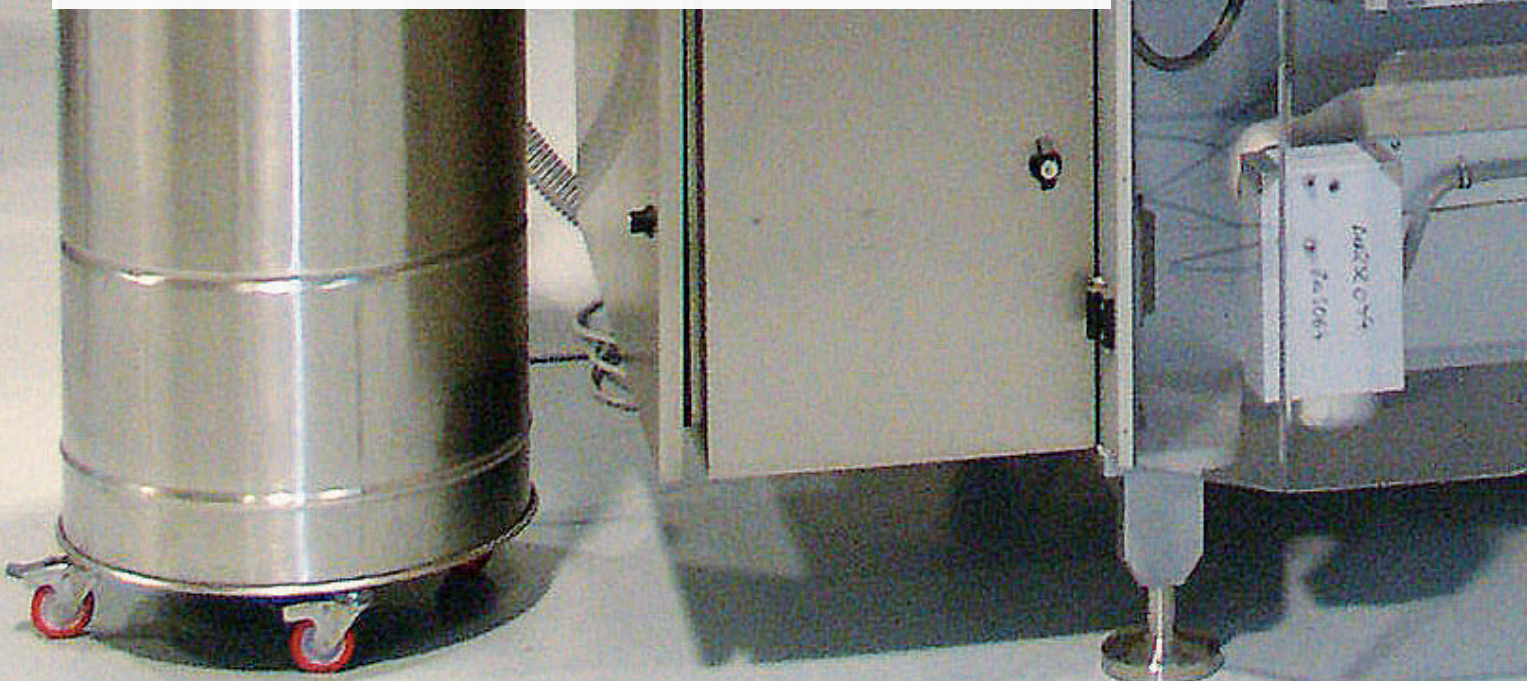
# FOOD & PHARMA

## Vacuum Cleaners

This family of RGS vacuum cleaners has been created to solve all dust removal, cleaning and waste removal problems related to the world of packaging and wrapping, especially in the food and pharmaceutical industries.

More than ten years' experience in the sector has enabled us to design these vacuum cleaners in such a way as to avoid the accumulation of residues in hidden parts, and the white colour is ideal for allowing the vacuum cleaner to be thoroughly cleaned. In addition to the painted steel versions, versions partially or fully made of AISI 304 steel are available, which allow for the recovery and reuse of dust and enable their use in the pharmaceutical sector.

The range consists of **MOBILE ASPIRATORS**, equipped with wheels and reduced overall dimensions for on-board suction of dust and processing residues; **FIXED VACUUM CLEANERS** in **HORIZONTAL or VERTICAL** versions that can also be integrated inside production machines; and finally, **VACUUM CLEANERS FOR SCRAPS**, indicated for suction of off-cuts of plastic, paper, fabric or similar processing.







- Three-phase (or optional single-phase up to 2.2 kW) side channel suction units **for 24-hour operation**.
- The most comprehensive range in terms of power, capacity and versions.
- **Different categories of filtration:** L (standard), M or H, nylon (AS) to allow suction of any type of dust.
- **Wide range of accessories and options** to easily adapt to any packaging machine.
- **ATEX versions** available for use in classified areas or for suctioning explosion-hazardous products.



# Industrial Vacuum Cleaners Food & Pharma

## series MOBILE VACUUM - THREE-PHASE

### The best partners for packaging professionals

Genuine mobile industrial vacuum cleaners with power ratings from 0.90 to 2.2 kW and containers from 25 to 48 liters are **ideal for on-board suction of large quantities of product**, but can also be used at the end of the shift for **general cleaning of the working environment**.



Technical Data	Unit	A136	A236	A336
Voltage	V	3~ 400V/50Hz * **	3~ 400V/50Hz * **	3~ 400V/50Hz *
Power	kW	0.90	1.5	2.2
Maximum depression	mbar	230	250	310
Air flow rate	m³/h	150	210	310
Container capacity	L	25	25	48
Dimensions	cm	40x70x126h	40x70x126h	50x80x154h
Weight	kg	69	71	120

\* other voltages and frequencies available on request

\*\* also available in single-phase version (side channel turbine vacuum cleaner with single-phase asynchronous motor)



**Specifically designed to be combined to automatic machines** for the suction of dust and/or swarf of any kind. **Compact and silent.**



With **practical release system of the recovery tank**



With a **manual filter shaker integrated**





# Industrial Vacuum Cleaners Food & Pharma

## series MOBILE VACUUM - THREE-PHASE

### The best partners for packaging professionals

Real mobile industrial vacuum cleaners with power ratings from 1.5 to 2.2 kW and containers from 25 to 48 liters, **ideal for on-board suction of large quantities of product**, but also usable at the end of the shift for **general cleaning of the work environment**. The F230 and F340 models are also available in an ATEX version with a full range of easy-to-install options that make them particularly suitable for the **pharmaceutical world**.



Technical Data	Unit	F230	F340
Voltage	V	3~ 400V/50Hz * **	3~ 400V/50Hz * **
Power	kW	1.5	2.2
Maximum depression	mbar	250	310
Air flow rate	m³/h	210	310
Container capacity	L	25	48
Dimensions	cm	40x70x151h	50x80x154h
Weight	kg	90	120

\* other voltages and frequencies available on request

\*\* also available in single-phase version (side channel turbine vacuum cleaner with single-phase asynchronous motor)



**Specifically for the pharmaceutical industry pharmaceutical industry**  
due to their GMP construction



Suitable for use with **tablet presses, capsule and sachet machines, for powder packing machines** as dust collectors



**Extremely quiet**



# Industrial Vacuum Cleaners Food & Pharma

## series FIXED VACUUM CLEANERS - HORIZONTAL VACUUM CLEANER

### Ideal for suction of process machines and processing lines

RGS three-phase suction bases are ideal for installation on **process machines and processing lines in the pharmaceutical, chemical and food industries**. They are suitable for sucking in small quantities of dust for continuous use. Arranged horizontally with an exposed or shrouded motor. Available with motor powers from 0.37 kW up to 0.90 kW.



Technical Data	Unit	BA2205	BA2805	BA281
Voltage	V	3~ 400V/50Hz * **	3~ 400V/50Hz * **	3~ 400V/50Hz *
Power	kW	0.37	0.37	0.90
Maximum depression	mbar	160	160	230
Air flow rate	m³/h	80	80	150
Container capacity	L	3	9	9
Dimensions	cm	35x60x46h	35x60x46h	35x60x45h
Weight	kg	20	22	30

\* other voltages and frequencies available on request

\*\* also available in single-phase version (side channel turbine vacuum cleaner with single-phase asynchronous motor)



**Asynchronous three-phase motors** suitable for continuous use on board the machine



Thanks to their **low height** they can find space in housings inside other operating machines



Also available disassembled with the filter sector separated from the blower





# Industrial Vacuum Cleaners Food & Pharma

## series FIXED VACUUM CLEANERS - HORIZONTAL VACUUM CLEANER

### Ideal for suction of process machines and processing lines

RGS three-phase suction bases are ideal for installation on **process machines and processing lines in the pharmaceutical, chemical and food industries**. They are suitable for sucking in small quantities of dust for continuous use. Arranged horizontally with an exposed or shrouded motor. Available with motor powers from 0.37 kW up to 4 kW.



Technical Data	Unit	BA3605	BA361	BA362	BA363	BA465
Voltage	V	3~ 400V/50Hz * **	3~ 400V/50Hz * **	3~ 400V/50Hz * **	3~ 400V/50Hz * **	3~ 400V/50Hz * **
Power	kW	0.37	0.90	1.5	2.2	4
Maximum depression	mbar	160	230	250	310	400
Air flow rate	m³/h	80	150	210	310	520
Container capacity	L	12	12	12	12	25
Dimensions	cm	39x80x64h	39x80x64h	39x80x64h	39x80x64h	46x105x85h
Weight	kg	30	35	42	52	62

\* other voltages and frequencies available on request

\*\* also available in single-phase version (side channel turbine vacuum cleaner with single-phase asynchronous motor)



**Asynchronous three-phase motors** suitable for continuous use on board the machine



Thanks to their **low height** they can find space in housings inside other operating machines



With integrated **manual filter shaker**



# Industrial Vacuum Cleaners Food & Pharma

## series FIXED VACUUM CLEANERS - VERTICAL VACUUM

### Ideal for suction of process machines and processing lines

RGS three-phase suction bases are ideal for installation on **process machines and processing lines in the pharmaceutical, chemical and food industries**. They are suitable for sucking in small quantities of dust for continuous use. Arranged vertically, they are always equipped with a protective casing. Available with motor powers from 0.37 kW up to 0.90 kW.



Technical Data	Unit	BAV2805	BAV281
Voltage	V	3~ 400V/50Hz * **	3~ 400V/50Hz * **
Power	kW	0.37	0.90
Maximum depression	mbar	160	230
Air flow rate	m³/h	80	150
Container capacity	L	9	9
Dimensions	cm	36x36x75h	36x36x75h
Weight	kg	22	30

\* other voltages and frequencies available on request

\*\* also available in single-phase version (side channel turbine vacuum cleaner with single-phase asynchronous motor)



**Asynchronous three-phase motors** suitable for continuous use on board the machine



Extremely  
**compact and silent**



Available with motors at special frequencies for non-European installations





# Industrial Vacuum Cleaners Food & Pharma

## series FIXED VACUUM CLEANERS - VERTICAL VACUUM

### Ideal for suction of process machines and processing lines

RGS three-phase suction bases are ideal for installation on **process machines and processing lines in the pharmaceutical, chemical and food industries**. They are suitable for sucking in small quantities of dust for continuous use. Arranged vertically, they are always equipped with a protective casing. Available with motor powers from 0.90 kW up to 4 kW.



Technical Data	Unit	BAV361	BAV362	BAV363	BAV465
Voltage	V	3~ 400V/50Hz * **	3~ 400V/50Hz * **	3~ 400V/50Hz * **	3~ 400V/50Hz * **
Power	kW	0.90	1.5	2.2	4
Maximum depression	mbar	230	250	310	320
Air flow rate	m³/h	150	210	310	520
Container capacity	L	12	12	12	25
Dimensions	cm	51x56x105h	51x56x105h	51x56x105h	60x70x150h
Weight	kg	40	48	54	95

\* other voltages and frequencies available on request

\*\* up to 1.5 kW and 2.2 kW available in single-phase version (turbine with 230V single-phase asynchronous motor)



**Asynchronous three-phase motors** suitable for continuous use on board the machine



**Compact and silent** thanks to the fairing



With integrated **manual filter shaker**



# Industrial Vacuum Cleaners Food & Pharma

## ASPIRASFRIDI series

### Ideal for suction of scrap in packaging and/or production lines

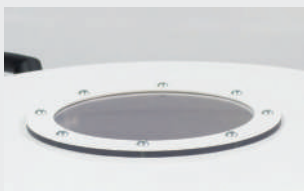
**Vacuum cleaners for plastic scraps or other materials that are produced by packaging machines when closing the pack, which not only remove the scraps but also compact them inside the filter bag to optimise emptying operations.** Available with powers from 0.85 to 1.5 kW and 105-litre containers Exhausters for plastic scraps or other materials that are produced by packaging machines when closing the pack, which not only remove the scraps but also compact them inside the filter bag to optimise emptying operations. Available with powers from 0.85 to 1.5 kW and 105 litre containers.



Technical Data	Unit	AS146	AS1546	AS246
Voltage	V	3~ 400V/50Hz * **	3~ 400V/50Hz * **	3~ 400V/50Hz *
Power	kW	0.85	1.3	1.5
Maximum depression	mbar	230	230	230
Air flow rate	m³/h	150	150	210
Container capacity	L	105	105	105
Dimensions	cm	Ø46x116h	Ø46x116h	Ø46x116h
Weight	kg	42	42	55

\* other voltages and frequencies available on request

\*\* also available in single-phase version (side channel turbine vacuum cleaner with single-phase asynchronous motor)



The porthole on the cap allows the **control of the filling of the container**



Suction from top to down compresses the product increasing the large capacity of the collection tank



The practical 200 micron nylon microfilter allows rapid and spillage-free emptying of the collected product





# Industrial Vacuum Cleaners Food & Pharma

## ASPIRASFRIDI series

### Ideal for suction of scrap in packaging and/or production lines

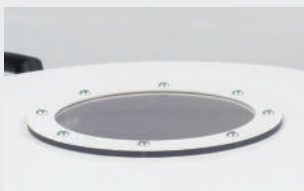
Vacuum cleaners for plastic scraps or other materials **that are produced by packaging machines when closing the pack, which not only remove the scraps but also compact** them inside the filter bag to optimise emptying operations. Available with powers from 1.1 to 4 kW and containers from 150 to 215 liters.



Technical Data	Unit	AS1556	AS256	AS356	AS556
Voltage	V	3~ 400V/50Hz * **	3~ 400V/50Hz * **	3~ 400V/50Hz * **	3~ 400V/50Hz *
Power	kW	1.1	1.5	2.2	4
Maximum depression	mbar	230	250	310	400
Air flow rate	m³/h	150	210	310	520
Container capacity	L	150	150	150	215
Noise level	dB(A)	70	64	69	73
Dimensions	cm	Ø56x116h	Ø56x116h	56x116h	66x134x145h
Weight	kg	60	65	72	160

\* other voltages and frequencies available on request

\*\* up to 1.5 kW and 2.2 kW available in single-phase version (turbine with 230V single-phase asynchronous motor)



The porthole on the cap allows the **control of the filling of the container**



Suction from top to down compresses the product increasing the large capacity of the collection tank



The practical 200 micron nylon microfilter allows rapid and spillage-free emptying of the collected product



# Industrial Vacuum Cleaners Food & Pharma

## AS250 | VACUUM CLEANER FOR PLASTIC OR PAPER WASTE

### High performance for your food packaging line

Vacuum cleaners for suction of plastic or paper trimmings with a compact design and high efficiency. Ideal for use in food production lines during the packaging process due to their suction power, design features and small dimensions.



The AS250 model has a 1.5 kW (50Hz) or 1.7 kW (60Hz) three-phase motor with a 100 liters container. Made of stainless steel (or painted) with a robust, ergonomic and safe frame. High height-to-volume ratio with a Ø500 housing. Equipped with an inspection window on the lid to check the level of the suctioned product.

### Advantages

- > **Acoustic comfort**  
(model designed and tested so as not to impact on the employee's hearing quality)
- > **Cleaner environments for food packaging lines**
- > **No air outlets to the operator**
- > **Quick and easy disposal of waste materials**
- > **Maintenance-free**
- > **Ease of use**  
(constant monitoring of the filling level thanks to the transparent porthole)
- > **Improving production time**
- > **High-quality products**
- > **100% made in Italy**

made in Italy



Acoustic comfort - 66 dB(A),  
acoustic wellness for your hearing

### How does the AS250 work?

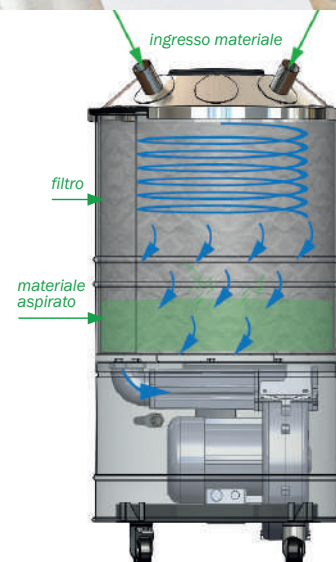
The AS250 collection system is specially designed for the removal of residual plastic or paper scraps from food production lines during the packaging process.

Equipped with wheels as standard, the AS250 is perfectly suited for mobile use directly where residual waste or similar waste materials are to be collected and then connected to packaging machines via hoses.

The scraps are extracted and recovered in the nylon filter. The vacuumed product is compacted at the bottom, thereby optimising the container's capacity. To empty the container, simply open the lid, remove it and remove the nylon filter.

Equipped with a transparent, impact-resistant inspection window, the container's fill level can be quickly and easily monitored at all times, even during operation.

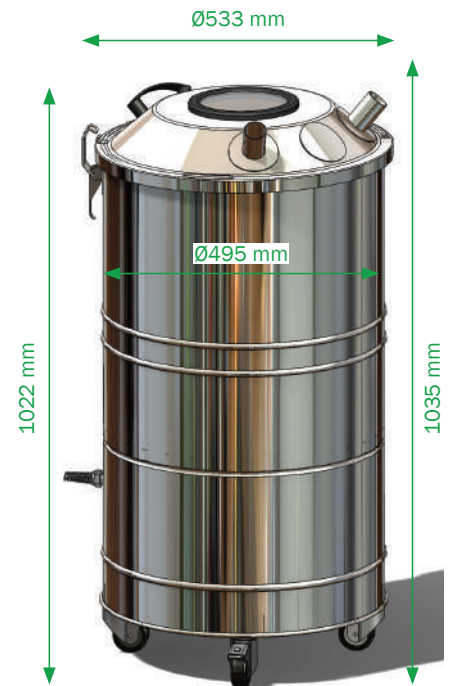
The AS250 is virtually maintenance-free with an exceptionally high uptime.





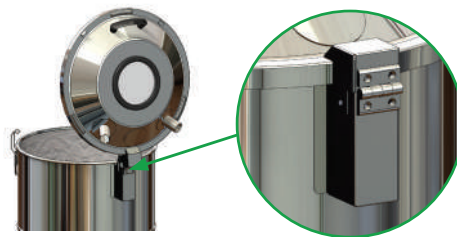
## Technical features

- > Machine body Ø500
- > Side channel blower with 1.5 kW asynchronous motor positioned below underneath the housing. Multi-voltage motor with energy efficiency class IE3
- > Electrical cable 10 m long
- > Internal gasket fixed in its seat on the lid
- > 200 micron nylon filter bag with 100 litre capacity
- > Lid with provision for 3 holes
- > Cover with 3-hole predisposition
- > Customisable from 1 to 3 inlets Ø40mm
- > 100 litre container with wheels
- > 4 swivel castors
- > Inspection window on the lid to check the level of the suctioned product
- > Painted version with RAL 9003 white container (for environments where no required by the Food Regulation)
- > X version completely in stainless steel (container and cap)
- > Version ready to work on both the European and American (UL) markets
- > Suitable for the food industry
- > Model made of materials suitable for contact with water
- > Also available with food requirements (FDA, Reg. (EC) No. 1935/2004)



## Optional

- > Hinge on lid



Legend	Unit	AS250
Voltage/Voltage	V	400V/50Hz   460V/60Hz
Power	kW	1.5 (50Hz)   1.7 (60Hz)
Max. depression	mbar	240 (50Hz)   260 (60Hz)
Max. working depression	mbar	175 (50Hz)   160 (60Hz)
Max. air flow	m <sup>3</sup> /h	219 (50Hz)   265 (60Hz)
Container capacity	L	100
Product input	mm	Ø40
Noise level	dB(A)	66 (50Hz)   68 (60Hz)
General Dimensions	cm	Ø53 x 100 h
Weight	kg	70
Protection	IP	54

# ATEX

## Vacuum Cleaners

The ATEX range of vacuum cleaners can be used in areas with a risk of explosion due to the presence of explosive dusts or gases.

Machines are available specially designed for **areas with the presence of dust**, with suffix '**D**', or for **areas with both gas and dust**, with suffix '**GD**'.

All vacuum cleaners are certified for cat. 3, meaning they can be used in zones 2-22, and some models are suitable for cat. 2, meaning zone 1-21. For applications in zones 0-20, we recommend the use of machines in compressed air versions. All machines are manufactured with electrical components that comply with the Atex Directives for zone classification.

*All models of standard vacuum cleaners are available, and specific vacuum cleaners can be produced in accordance with customer's risk analyses.*







**RGS**  
AP46/100



DO NOT  
SUCK  
IGNITION HAZARD

TYPE  
22



# I ATEX Vacuum Cleaners

## What is ATEX?

“ATEX” stands for ‘ATmosphere EXplosive’, or explosive atmosphere.



An explosive atmosphere is a **mixture of flammable substances** in the state of gases, vapours, mists or combustibles in a pulverulent state with air or an oxidising agent, under certain atmospheric conditions in which, upon ignition, combustion spreads to the flammable mixture.

The European Union, in the area of risk due to the presence of potentially explosive atmospheres, has adopted two European health and safety directives, known as **ATEX 2014/34/EU** (also ATEX 114) and **ATEX 99/92/EC** (also ATEX 137 now ATEX 153).

## Atex Risk Zones

The classification of hazardous areas is carried out according to the recommendations of **EN 1127-1**, **EN 60079-10-1** (gas-Ex) and **EN 60079-10-2** (dust-Ex), which provide for the division of hazardous areas into three zones, depending on the frequency and time of presence of the explosive substance.

Installation area	Substance	ATEX category	EPL protection level
Zone 0	Gas	1G	Ga - very high
Zone 1	Gas	2G	Gb - high
Zone 2	Gas	3G	Gc - normal
Zone 20	Dust	1D	Da - very high
Zone 21	Dust	2D	Db - high
Zone 22	Dust	3D	Dc - normal





## Features of RGS ATEX Vacuum Cleaners

1. Electrical components according to ATEX regulations
2. ATEX side channel blower
3. Relief valve
4. Motor cover to facilitate vacuum cleaning
5. Antistatic filter
6. Partial or full stainless steel construction (AISI 304 or 316 available)
7. Manual filter shaker
8. Container grounding
9. Large capacity collection container, removable and usable with collection bags
10. Antistatic wheels



Wide range of antistatic accessories for every use

All models of **standard vacuum cleaners** are available, and **specific vacuum cleaners** can be produced in accordance with customers' risk analyses.



**SINGLE-PHASE ATEX  
INDUSTRIAL VACUUM CLEANERS**



**THREE-PHASE ATEX  
INDUSTRIAL VACUUM CLEANERS**



**ATEX INERTING INDUSTRIAL  
VACUUM CLEANERS**



**COMPRESSED AIR  
VACUUM CLEANERS**



**FOOD & PHARMA ATEX  
VACUUM CLEANERS**

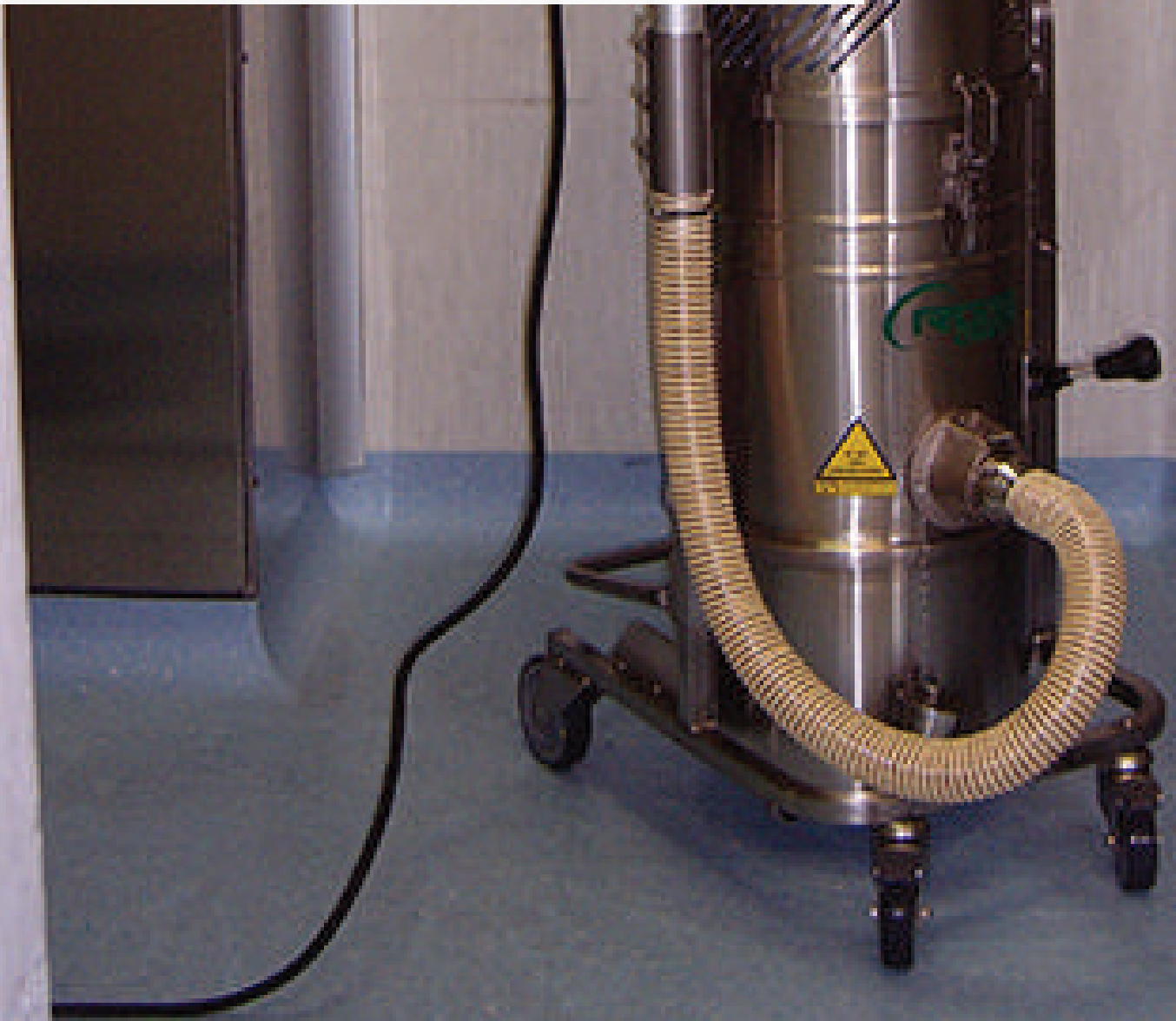


# Vacuum Cleaners **COMPRESSED AIR**

AD' series industrial vacuum cleaners are ideal for areas where electrical power is absent or prohibited, such as in ATEX environments.

In vacuum cleaners operating with compressed air, the suction unit consists of a high-efficiency 'Venturi' ejector specially designed for use in this type of machine.

The X1, X2, X3 versions can be used in Atex zones 2/21; in addition, the X2 and X3 machines may have an internal 1/20 zone, but this does not fall under the ATEX 2014/34/EC directive.





# Compressed Air Vacuum Cleaners

## AD series

### For areas where electricity is prohibited or absent

The 'AD' series industrial vacuum cleaners are ideal for areas where electricity is absent or prohibited, operating with compressed air without any electrical components and moving parts: **the vacuum is created by a 'Venturi' system**. The X1, X2, X3 versions can be used in ATEX zones 2/21; in addition, the X2 and X3 machines may have an internal 1/20 zone, but this does not fall under the ATEX 2014/34/EC directive. They are equipped with a Ø360, Ø460 and Ø560 star filter (antistatic in the ATEX version) and detachable container, made of stainless steel for the ATEX versions.



Technical Data	Unit	AD36	AD46/60	AD46/100
Air consumption	L/min	1200 NI/min	1200 NI/min	1200 NI/min
Power	Watt	-	-	-
Maximum depression	mbar	280	280	280
Air flow rate	m³/h	350	400	400
Container capacity	L	25	65	100
Dimensions	cm	48x65x135h	68x74x135h	68x74x150h
Weight	kg	36	60	62



No maintenance or wear and tear over time



Ideal for environments **where electricity is not available**



Silent and reliable



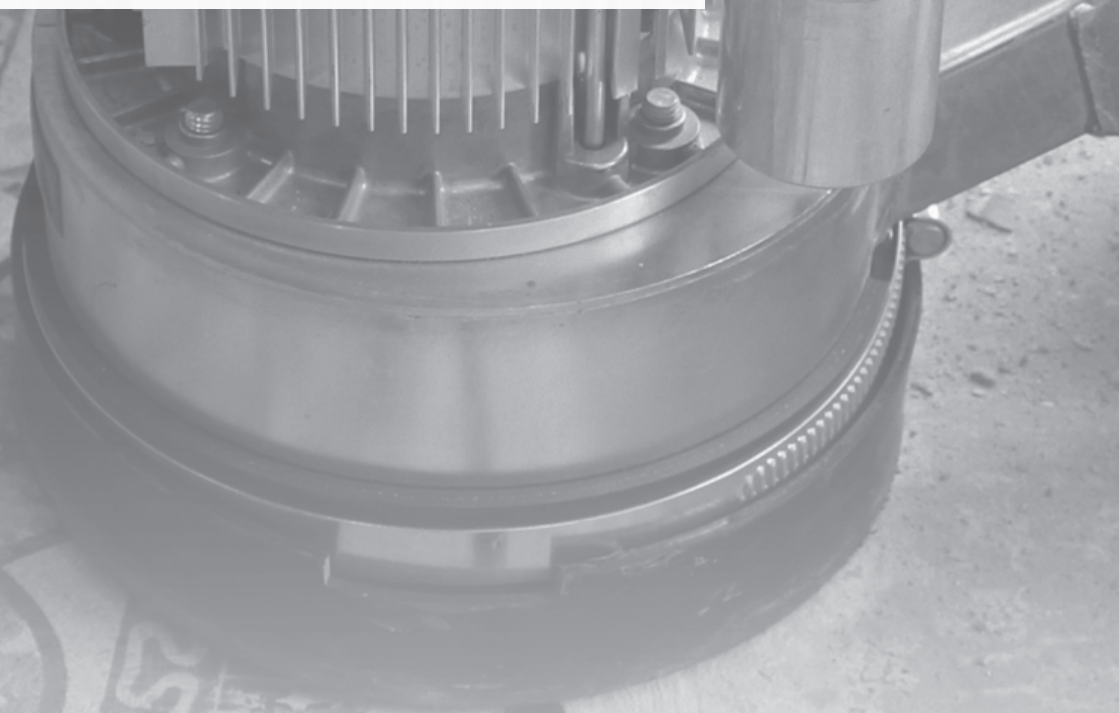
# **SURFACE TREATMENT**

## **Vacuum Cleaners**

The RGS range of industrial vacuum cleaners for the sanding and construction industry removes dust at source and prevents the release of fine dust into the working environment.

Surface treatments include industrial processes that alter the surface of a manufactured product to obtain a certain property.

These processes, however, generate large amounts of fine dust that is hazardous to the health of operators. In addition to PPE systems, to prevent this, RGS Vacuum Systems has designed a range of high-quality, reliable vacuum cleaners capable of working in the harshest conditions, for the world of floor sanding and construction.





# Vacuum Cleaners Surface Treatment

## Best for continuous use and surface treatment

The RGS range of industrial vacuum cleaners designed for the sanding and construction industry are robust, efficient and have a **long service life** guaranteeing high technical standards (particularly suitable for continuous suction from floor treatment machines). They have distinctive features that make them ideal for these applications thanks to their systems.



Technical Data	Unit	ONE22FP	ONE103ECO	ONE63ECOC	A546KECOC.1	Cyclone separators
Voltage	V	1~230V/50/60Hz	1~230V/50/60Hz	1~230V/50/60Hz	3~400V/50Hz	
Power	kW	2.2	3.3	5.25	5.5 (4 + 1.5)	
Maximum depression	mbar	210	210	210	280	
Air flow rate	m³/h	340	510	510	550	
Container capacity	L	20	100	65	100	100 * possibility to install the Longopac® collection system
Dimensions	cm	49x49x102h	78x64x155h	70x92x150h	65x110x152h	
Weight	kg	23	62	90	145	



In standard versions **large star filter available with PTFE coating** for improved efficiency



Available with filtration system with cartridge automatic continuous cleaning to ensure the maintenance of suction efficiency over time



Available with powder packaging **Longopac®**



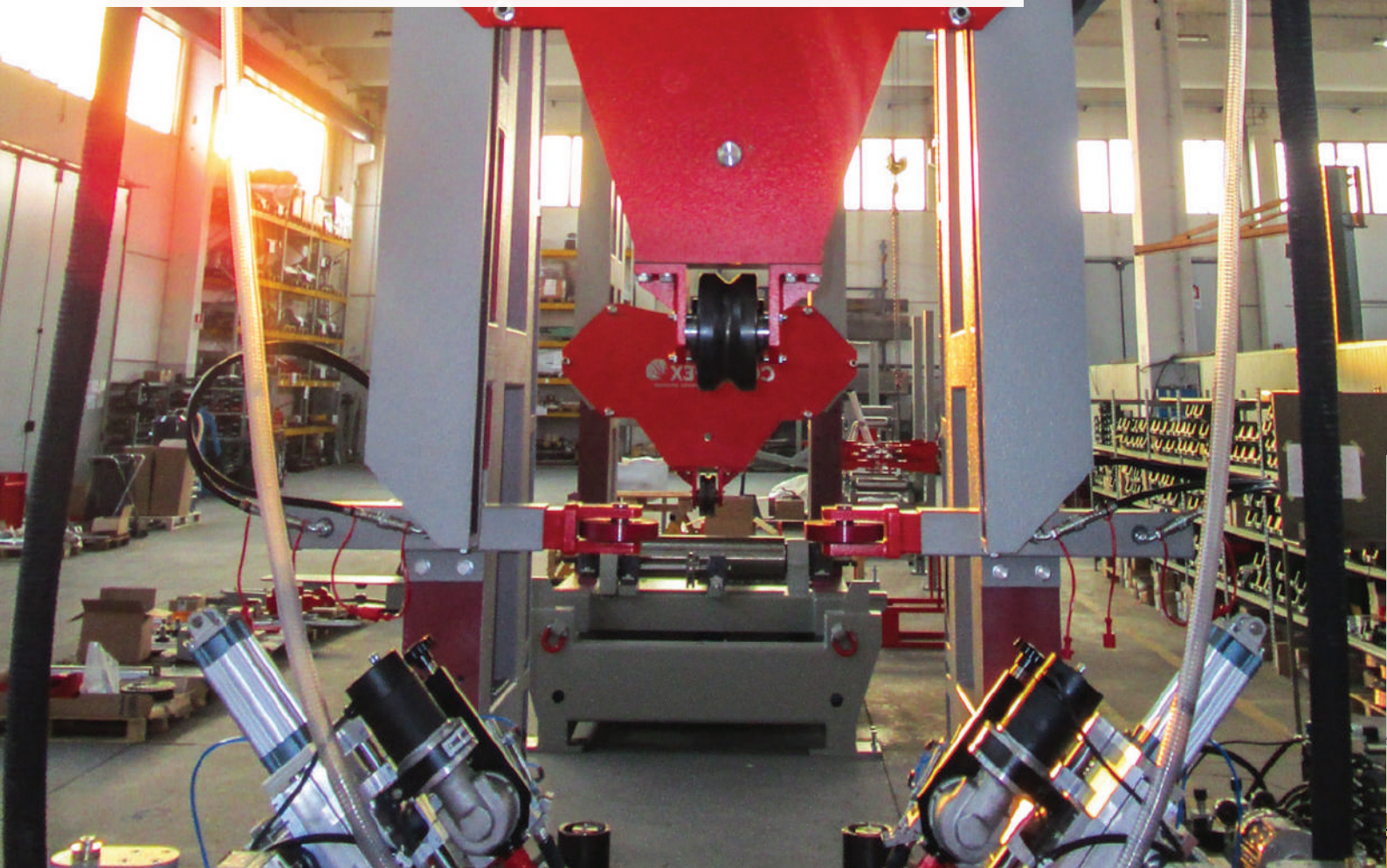


# SUBMERGED ARC WELDING

## Suction Unit

Submerged Arc Welding (SAW - Submerged Arc Welding in AWS terminology) is a continuous arc welding process under slag protection.

The general morphology of the welding zone (i.e. the fact that the arc strikes beneath the slag) allows a large amount of heat to be generated, which, being shielded by the slag, a poor heat conductor, remains localised in the weld pool. Thus, submerged arc welding allows high welding and deposition speeds. Submerged-arc welding is a process that can be made fully automatic and can perform both longitudinal welds in a flat position and circumferential welds on positioners.





# I Submerged Arc Welding Suction

## Working alongside machine shops for flow recovery

The purpose of our submerged arc vacuum cleaners is to **recover the flux that has not turned into slag and return it to the welding machine hopper to be reused in the cycle again**. In addition, thanks to the screen filter in our hopper, we can separate any slag that might be sucked out of the flux.

- recovery of used flux
- separation of slag pieces
- maximum productivity and reliability



Technical Data	Unit	VERTICAL VACUUM CLEANER	VERTICAL VACUUM CLEANER
Voltage	V	3~ 400V/50Hz * **	3~ 400V/50Hz * **
Power	kW	1.5	2.2
Maximum depression	mbar	250	310
Air flow rate	m <sup>3</sup> /h	210	310
Container capacity	L	12	12
Dimensions	cm	51x56x105h	51x56x105h
Weight	kg	48	54

\* other voltages and frequencies available on request

\*\* up to 1.5 kW and 2.2 kW available in single-phase version (turbine with 230V single-phase asynchronous motor)



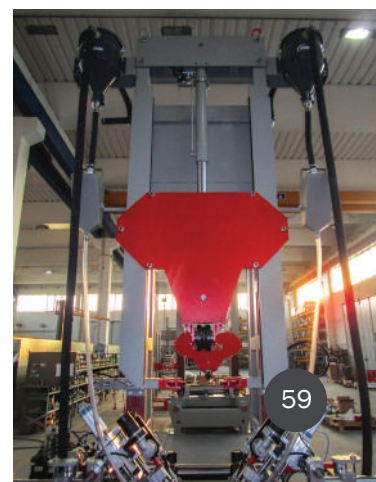
Flow recovery and recycling  
excess to the bead  
of solder



Separation screen for  
screen the coarse part of the  
flow that is sucked in versus to  
that which is to be reused



Availability to implement  
screening systems, relaunching  
and flow compensation  
to be reused



# Vacuum cleaners for **NORTH AMERICAN MARKET**

RGS industrial vacuum cleaners with US certification.

Compact and designed for dust extraction and use in industrial work environments.





# Vacuum cleaners for the North American market

## Compact with US certification

Practical, manoeuvrable and silent, with a small footprint to meet space and height requirements. The large-surface star-shaped filter maintains suction and prevents clogging. Equipped with an external shaker that allows the filter to be cleaned (when the vacuum cleaner is switched off) without the operator coming into contact with the suctioned dust. In addition, the dust collection container can be removed from the machine for quick and easy emptying.



Technical Data	Unit	ONE42.UL	ONE43.UL	ONE42.C2D2
Voltage	V	2~ 110V/60Hz	3~ 110V/60Hz	2~ 110V/60Hz
Plug	A	15	20	20
Power	kW	1.5	2.3	2
Maximum depression	mbar	180	180	210
Air flow rate	m³/h	310	450	330
Container capacity	L	40	40	40
Dimensions	cm	53x62x113h	53x62x113h	53x62x113h
Weight	kg	40	40	54
ETL classification	-	Ordinary Location	Ordinary Location	Class II Division II
ETL certification number	-	5025656	5025656	in the process of certification



**American plug**  
15A and 20A



Large surface  
**star filter**



**Stainless steel tank**  
with wheels and release handle

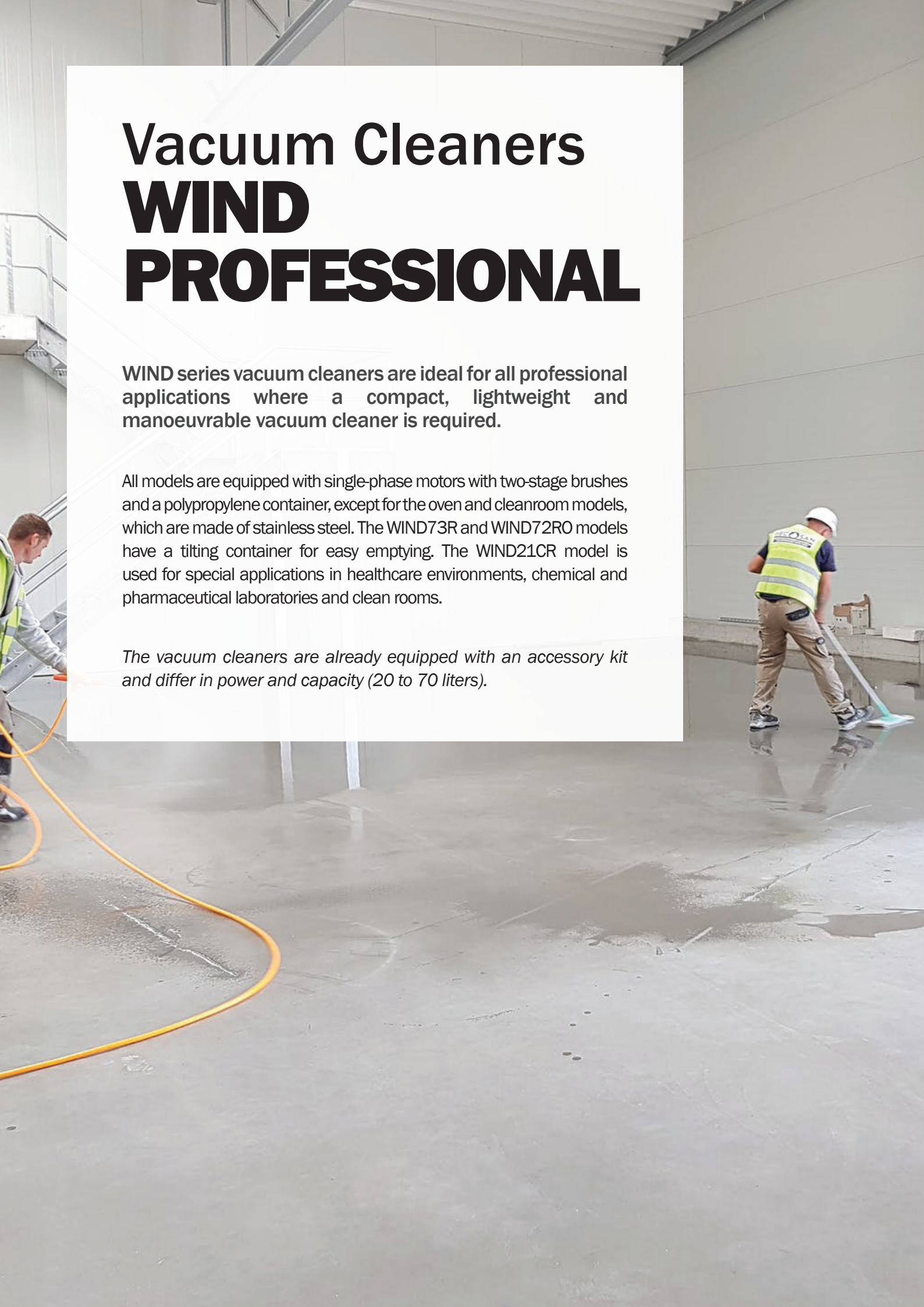


# Vacuum Cleaners **WIND** **PROFESSIONAL**

**WIND** series vacuum cleaners are ideal for all professional applications where a compact, lightweight and manoeuvrable vacuum cleaner is required.

All models are equipped with single-phase motors with two-stage brushes and a polypropylene container, except for the oven and cleanroom models, which are made of stainless steel. The WIND73R and WIND72RO models have a tilting container for easy emptying. The WIND21CR model is used for special applications in healthcare environments, chemical and pharmaceutical laboratories and clean rooms.

*The vacuum cleaners are already equipped with an accessory kit and differ in power and capacity (20 to 70 liters).*





# Wind Professional Vacuum Cleaners

## WIND series

### The most compact, manoeuvrable and lightweight

Compact professional vacuum cleaners, ideal for **extracting dust and liquids**. Equipped with single-phase two-stage motor and polypropylene collection containers from 21 to 76 liters capacity.

*The vacuum cleaners are supplied complete with an accessory kit to make the operator's work easy, light and safe.*



Technical Data	Unit	WIND21	WIND41	WIND72	WIND73R	WIND72R0	WIND21CR
Voltage	V	1~ 230V/50Hz	1~ 230V/50Hz	1~ 230V/50Hz	1~ 230V/50Hz	1~ 230V/50Hz	1~ 230V/50Hz
Power	Watt	1100	1100	2400	3300	2400	1000
Maximum depression	mbar	225	225	225	225	225	135
Air flow rate	m³/h	170	170	340	510	340	220
Container capacity	L	21	40	76	76	76	21
Dimensions	cm	38x38x55h	38x38x80h	55x55x90h	55x55x90h	55x55x90h	38x38x55h
Weight	kg	9	13	23	28	27	9



# I Pre-separators and Separators

## For recovery of large quantities of material

Tilting separators are used when large quantities of material need to be recovered. They are equipped with a cyclone cap for separating the material, and a forklift is required for emptying. They are made of painted steel.



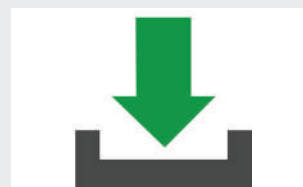
Technical Data	Unit	Cyclone separators	K.SE.004	K.SE.012
		100		
Container capacity	L	* possibility to install the Longopac® collection system	400	860
Product inlet	Ø mm		100	100
Air suction connection	Ø mm		100	100
Dimensions	cm		101x135x159h	105x170x174h
Weight	kg		250	280



Indispensable for separating coarse and fine parts



Increases the collection capacity of the vacuum cleaner while preserving filter integrity



Unloading of collected materials in maximum safety





# I Options and Accessories

All vacuum cleaners can be equipped with a wide range of optional extras and accessories to make the **operator's work easy, light and safe** and to meet the various demands of different application sectors.

## Optional

1. **Filters with different efficiency classes** and made of heat-resistant materials to suck in very fine and incandescent substances. **Absolute filters** to retain even the finest dust with 99.995% efficiency (**class H14**).
2. **Manual filter cleaning system** on all versions, or pneumatic, or automatic.
3. **Automatic shut-off systems** in the event of liquid suction. / Liquid drainage systems.4.
4. **Discharge systems** for the sucked product in a plastic bag or continuous bag.
5. **Systems for lifting** the container by forklift.
6. **Stainless steel container** and/or filter chamber for the recovery of food and/or corrosive substances



1 Absolute H14 suction filter kit and blowing



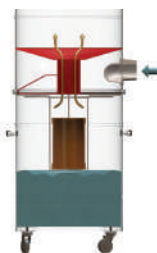
2 Manual filter shaker



Pneumatic filter shaker



Filter cartridge kit



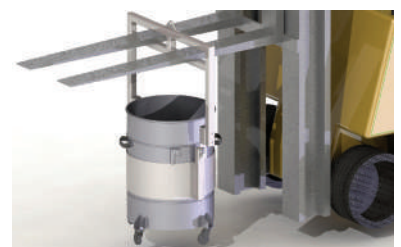
3 Liquid stop



4 Grill and depressor kit for discharge of sucked product into a plastic bag



LONGOPAC kit for product discharge in continuous bag



5 Container lifting kit

# I Options and Accessories

All vacuum cleaners can be equipped with a wide range of options and accessories to make the **operator's work easy, light and safe** and to meet the various requirements of the different application sectors.

## Accessories

Accessory kits complete with connection, hose, handles and Ø40 or Ø50 mm suction terminals specific for various applications.



### INDUSTRIAL CLEANING ACCESSORY KIT

Set of accessories for cleaning floors, machinery, belts, shelves in industrial environments. Consisting of: reduction and 4 m (or 3 m) hose complete with sleeves, handle and floor suction cup, conical trunk, bristle brush and flat lance.



### PROFESSIONAL ACCESSORY KIT

Professional cleaning accessory set consisting of: 2.5m hose, flat plastic lance, galvanised handle, mobile suction cups with rubber and nylon bristles, brush with nylon bristles, galvanised reduction.



### MACHINE TOOL CLEANING ACCESSORY KIT

Set of accessories for cleaning machine tools, consisting of: reduction and 4 m of hose complete with sleeves, curved coupling and hose coupling, conical trunk and conical lance in antistatic rubber.



### OIL CLEANING ACCESSORY KIT FOR MACHINE TOOLS

Set of accessories for suction of oil from machine tools, to be combined with OIL models, consisting of: 3 m or 4 m of hose complete with Ø50 anti-oil sleeves with clamps, curved coupling and hose coupling, conical trunk and conical rubber anti-oil lance.



### ANTISTATIC ACCESSORY KIT FOR ATEX INDUSTRIAL CLEANING

Set of antistatic accessories for industrial cleaning suitable for ATEX applications. Cleaning of floors, machinery, belts, shelves in industrial environments. Consisting of: reduction and 4 m of hose complete with sleeves, handle and floor suction cup, conical trunk, bristle brush and flat lance.



### ATEX INDUSTRIAL CLEANING ACCESSORY

Set of accessories for cleaning floors, machinery, belts, shelves in ATEX classified industrial environments (recommended for ZONES 0-1-20- 21). Consisting of: reduction and 3 m of ATEX-compliant hose complete with antistatic sleeves, stainless steel handle and floor suction cup, conical trunk, stainless steel bristle brush and flat lance.



### OVEN ACCESSORIES KIT

Set of accessories for oven cleaning, of two types: K.AC.008 with metal tube, for use with maximum continuous temperatures of 130 °, maximum peak temperatures of +300 ° and non-heavy-duty applications, and K.AC.010 with silicone tube, for use with maximum continuous temperatures of 260 °, maximum peak temperatures of 300 °, and heavy-duty applications such as industrial and ceramic ovens. Consisting of reduction, furnace tube, suction cup and extension.



# Pneumatic Conveyors

In industrial applications, there is an increasing need to **transport granular or powdered materials** in fluid suspension through numerous stages of the production process (*mixing, granulation, concentration, processing and packaging*). In this respect, *RGS Vacuum Systems develops innovative pneumatic conveying solutions for all industrial applications.*

Pneumatic conveyors **transfer powdered or granular solids into pipes, usually circular, by means of an air current of suitable velocity.**

The fundamental distinction between the various types of pneumatic transport derives from the way in which the motion of the material is achieved, by means of an air current that can be:

- **IN VACUUM** (suction)
- **IN PRESSURE** (in push)



Thanks to many years of experience in the sector, it is possible to realise and design the most suitable and economical conveyor system to solve the customer's problems, depending on the type of product and the requirements of the sector. The complete and efficient **test room** is available to customers so that they can view and touch all the solutions that RGS is able to offer, arriving at a prior definition of what the system's maintenance and consumption costs will be.

**RGS operates in diverse industrial sectors**, developing new technologies and exploiting air as a transport vehicle. Conveying systems are the ideal application in the food industry (*coffee, cocoa, sugar, spices*), as well as in the *chemical, pharmaceutical, ceramic, mechanical, plastics, textile, wine and packaging industries.*



# I Pneumatic conveying systems

The purpose of a pneumatic conveying system is to **transfer materials from one or more points to a final destination or to a further production process**. These include the *processes of mixing, granulation, concentration, processing and packaging*.

The company realises **turnkey projects** with *innovative and customised solutions*.



All the conveying systems designed and manufactured by RGS Vacuum Systems are dimensioned and constructed, following twenty years of experience, by members of the sales and technical staff, and managed by dedicated self-produced software, so as to guarantee the perfect correspondence of the proposed solutions with the highest standards.

The RGS Vacuum Systems team works to identify the right technology for the customer's specific need, starting with **technical inspections** at the customer's production facilities, through to the **design and production of the systems**, and on to service and scheduled **maintenance of the system** over time.



## I Advantages

- > **Short, medium and long distances** can be covered to transfer products pneumatically.
- > The ability to maintain a **controlled atmosphere**.
- > **Closed system**, so there is protection against dust emissions into the atmosphere and also protection of the transported material from external contaminants.
- > Can have several collection and **discharge points**, with dosing or weighing.
- > **Flexibility**.





# Centralized Vacuum Systems

For more than 20 years, RGS has been designing and manufacturing the most complete and reliable central vacuum systems.

A centralised vacuum cleaner system consists of a single vacuum unit with a single filter and container. Large industrial vacuum cleaners are often used, to which a network of pipes is connected that can be installed anywhere in the company. Thanks to the vacuum generated by the suction unit, a vacuum is generated inside these pipes,



so that the suctioned material is conveyed into these pipes, which will transport all the sucked material into a single container.



**REDUCING  
TIME AND COSTS**



**GREATER  
CLEANING RADIUS**



**ONE SUCTION UNIT  
AND  
ONE CONTAINER**

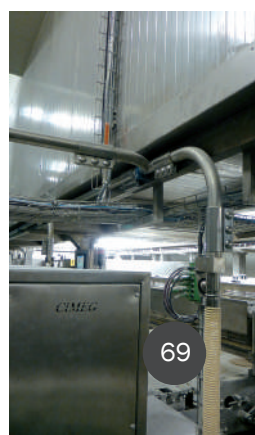
RGS offers a wide range of components for centralised vacuum systems, such as *suction units, collection silos, pre-separators, ducting components, and control systems.*

All products can be manufactured in **painted steel, stainless steel and ATEX versions according to customer and application requirements.**



## They are available:

- Silos with diameters from 460 mm to 1200 mm and capacities over 2,000 L.
- Bag or cartridge filtration systems.
- Shaking or air-jet cleaning systems.
- Electronic management of compressed air consumption.
- Discharge systems by means of pull-out container, tilting discharge (also in integral version), rotary valve or double valve.
- Suction units complete with control panel for system management, with the possibility of control according to vacuum and/or according to the number of connected users. They can be equipped with one or more motors with electronic speed and air flow regulation.
- A wide range of stainless steel and galvanised pipeline accessories is available: *bends, sleeves, rigid pipes, diversions, nozzles, valves.* Display of system status on each individual post/nozzle.



# Ventilation and Dedusting Systems

Extraction systems are the most widely used method to **capture and remove airborne pollutants from the work environment**, especially where high air flow rates and several localised extraction points are required.

Emissions of dusts, fumes, gases and vapours of all kinds can develop in industrial environments. Atmospheres with pollutants, in addition to the human risk, are highly undesirable in actual industrial production, since dusts, fumes and vapours can cause numerous inconveniences on exposed machinery and cause



damage to products. Localised extraction has the task of capturing pollutants as close as possible to their point of production (source) and abating them before they are released into the atmosphere to reduce concentrations to values compatible with environmental protection.

The correct design of extraction systems is, of course, one that achieves the **best control of the atmosphere with minimum air and energy consumption**.

## Advantages



> **INCREASED WORKER SAFETY:** complete capture of pollutants before they spread into the work environment.

> **REDUCED EMISSIONS TO THE ATMOSPHERE:** reduction and recovery of pollutants.



> **LESS ENERGY CONSUMPTION** both for extraction and for heating the air to be re-integrated): less air flow required for the same pollutant concentration.

> **REDUCED BREAKDOWNS AND MAINTENANCE:** less dust in the working environment.





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## RGS in the World.



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