

TIME & ECOLOGY
AMANO

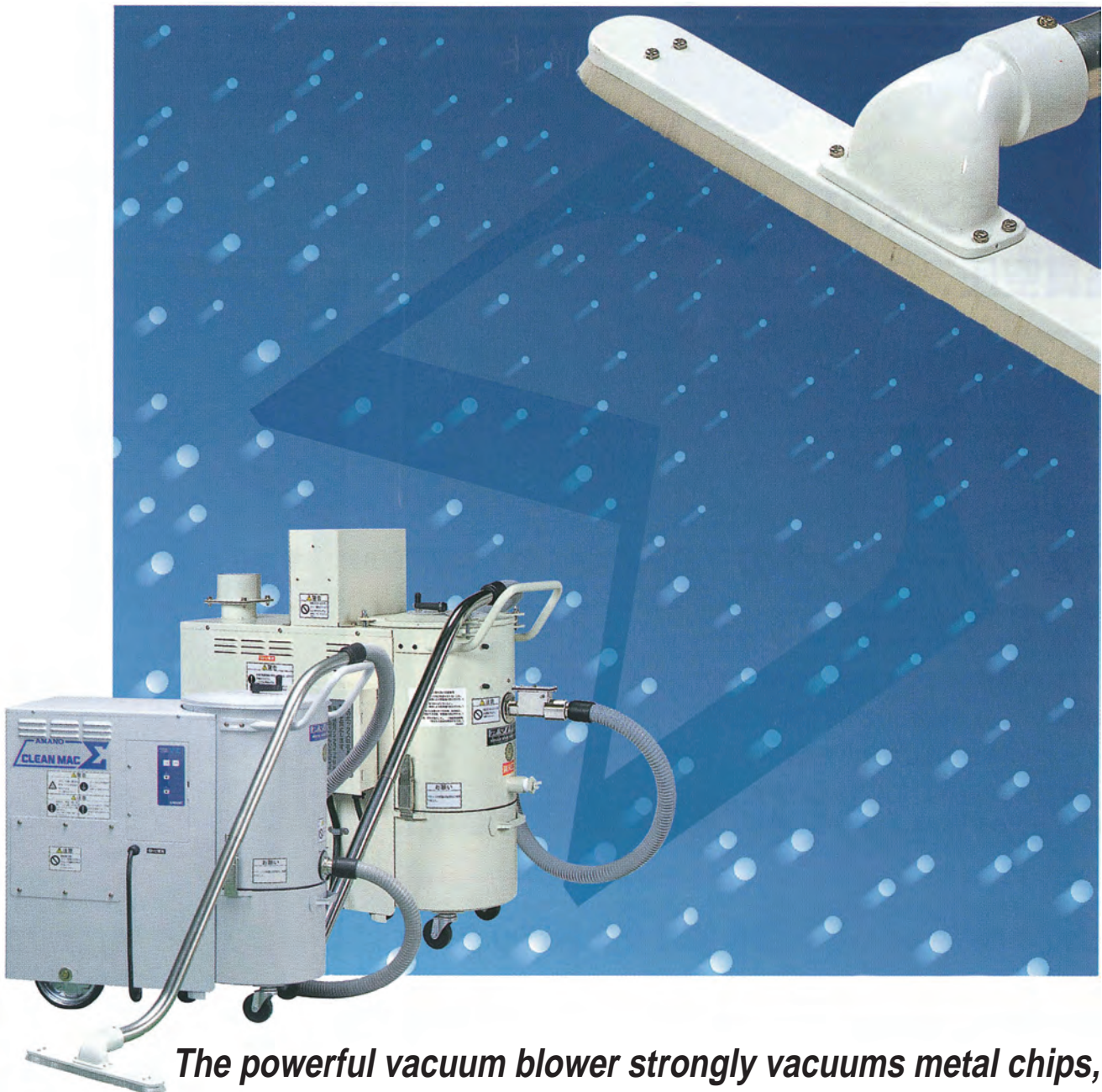


Hosoe Facility in JAPAN

INDUSTRIAL VACUUM CLEANER

V- Σ SERIES

DUST-explosion Pressure Diffusion Type : V-SDR SERIES



*The powerful vacuum blower strongly vacuums metal chips,
even cutting chips.*

The V SERIES find a wide variety of applications.

Powerfully Vacuums Metal Chips, Even Cutting Chips For your Reliable Partner For Cleaning And Collection

CLEAN MAC

The CLEAN MAC V-Σ SERIES are the industrial vacuum cleaners that feature powerful vacuum suction. They all are highly reliable to assure quiet and maintenance operation.

The V-Σ SERIES are designed with the state-of-the-art electronic technology to meet various requirements the conventional cleaners have; increased use of sophisticated and finer particles by development of new materials, growing concern about environmental protection and noise annoyance.

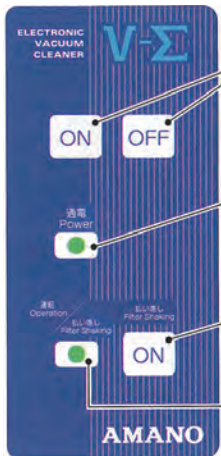
Choose best fit to your application among many models.

Filter Shaking Mechanism (Auto/Manual Modes)

The V-Σ SERIES use a filter shaking mechanism in auto/manual modes for filter cleaning. For this, you don't have to directly touch the filter by your hands. The synergetic effect with the newly developed filter "Fine-Fil" with a good dust separability (optionally available) allows the filter to effectively shake off dust and particles.



Control Panel



Operation switch
Starts and stops your vacuum cleaner.

Power Lamp
Turns ON (green) when power is supplied and blinks (red) when there is a power failure.

Filter Shaking switch
Shakes the filter at any time you want. (Automatic filter shaking type only)

Operation / Filter Shaking Lamp
Turns ON (green) when the blower is operating and blinks (green) during filter shaking.

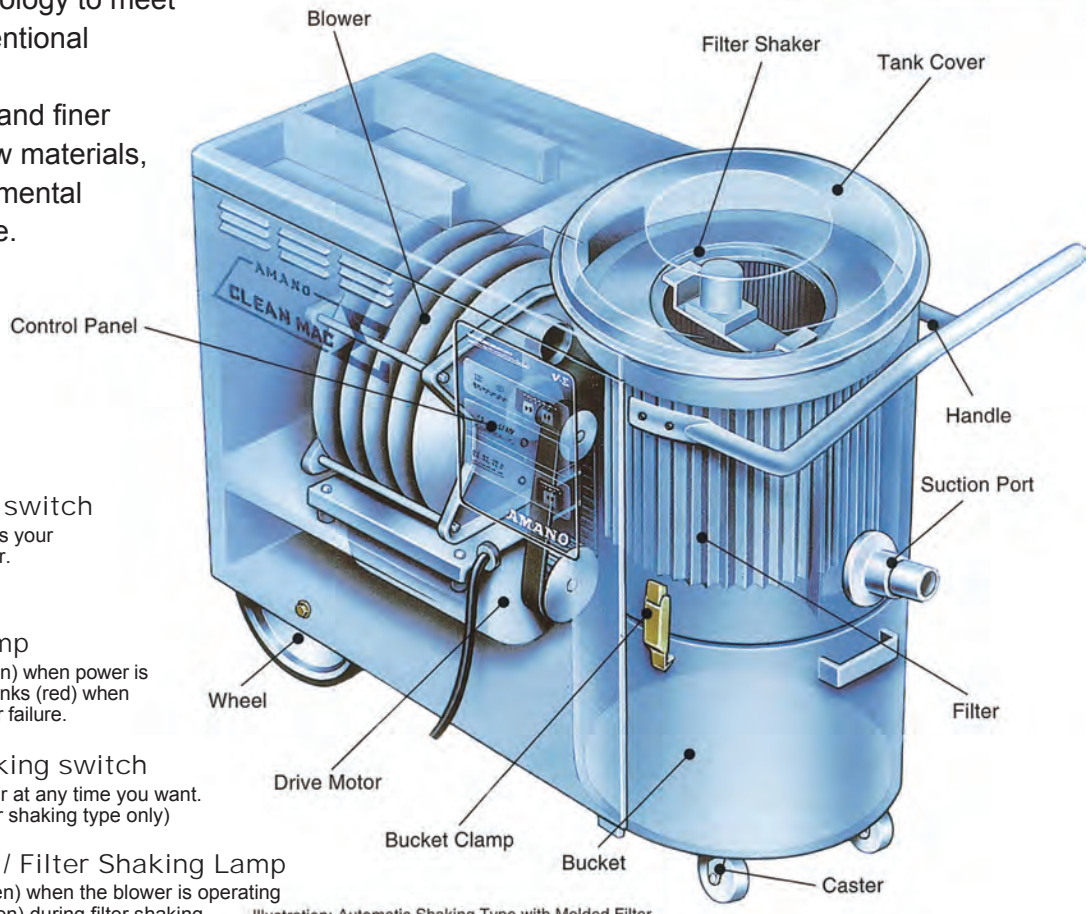


Illustration: Automatic Shaking Type with Molded Filter

Vacuuming metal chips, cutting chips

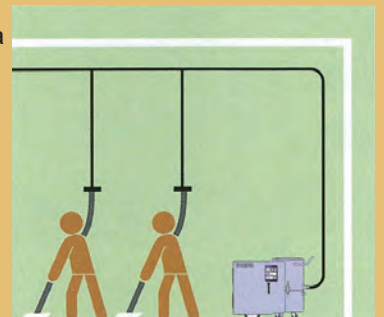
Collects metal and cutting chips produced during manufacturing process with its stabilized suction power. Can be used as a vacuum source for a precision products production factory.



Serves as a Suction Source for Central Cleaning System

The CLEAN MAC V-Σ SERIES provide strong, stabilized suction power and can be used as a suction source for a small central cleaning system. Simply plugging the cleaner hose into an optionally available inlet (safety) valve allows you to have a central cleaning system.

Note: if you want to use as a suction source for central cleaning system, consult our sales representative.



Light weight and compact design

The large-diameter wheels and well-balanced casters are capable of making small sharp turns easily in a narrow space.

Energy-saving and noise suppressed design

Cleaners of energy-saving type eliminates possible energy loss. The operational noise is reduced down to the range of 69dB to 75dB (A).



Compact type for small sharp turns in narrow space

V-2Σ (Output : 1.5kW)

V-3Σ (Output : 2.2kW)



- Compact, light-weight type for easy turn.
- The highest collection efficiency in this class.

Can be used as a suction source for a central cleaning system

V-5Σ (Output : 3.7kW)

V-7Σ (Output : 5.5kW)



- Able to vacuum heavy cutting chips.
- Stable enough to collect powder.
- Simply plugging the cleaner hose into an optional inlet valve lets you have a central cleaning system.

Dust-explosion pressure diffusion types for highly explosive dust

- The dust-explosion proof type motor and the anti-electrostatic filter are all designed to have less risk of dust explosion.
- The check valve and the explosion diffusion port are all designed for peripheral safety against possible dust explosion inside the unit body.

V-7SDR (Output : 5.5kW)

V-3SDR (Output : 2.2kW)



Possible explosive dust and particles:
 · Aluminum · Aluminum alloy · Titanium
 · Corn starch · Epoxy resin · Pulverized coal
 Please consult AMANO for dust-explosion test.
 Do not draw in the magnesium or magnesium alloy particles.



The dust-explosion pressure diffusion types are so designed that they are less likely to cause dust explosion but not prevent such explosion completely.

Types of Filters

Filter	Molded filter	Fine -Fil	For fine and very fine dust and particles
		Span bond	For general dust and particles
Anti-electrostatic		Antistatic type	
Woven cloth filter	Fine-Fil	For fine dust and particles	
	Heat-resisting nylon felt	Good heat resistance	
	Anti-electrostatic woven cloth	Antistatic type	
	Cotton	General fibrous dust and particles	
	Tetron (polyester)	Good acid resistance	
	Nylon	Good alkaline resistance	
Pylon (polypropylene)	Good acid and alkaline resistance		

Finds a Wide Variety of Applications.

For Cleaning

Can be used as a suction source for the central cleaning system in various manufacturing factories.



For Collection

Can be used to collect residual resources such as new materials, highly value-added materials, precious metals, etc.



For Quality Control

Can be used as vacuum source for automatic pressurizing, molding, packing, collecting lines.

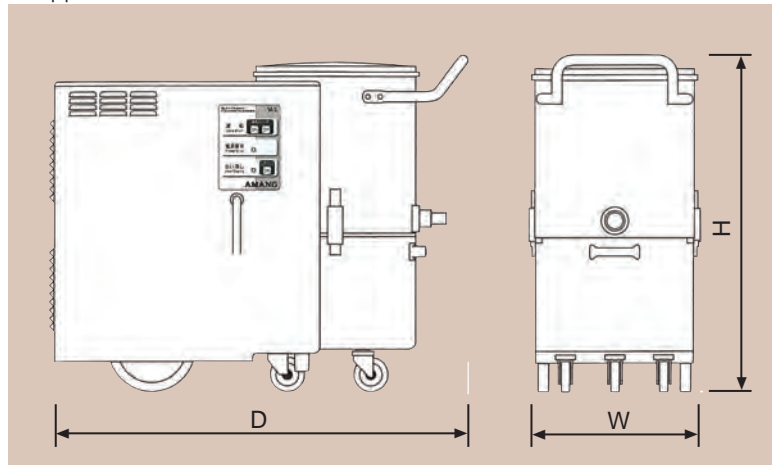


■ Accessories ((3), (4) and (5) are options.)



(1)(2) Pipe rods for floor (3) Crevice(φ 38mm)
 (4) Round brush (φ 73mm) (5) Round-brush connecting pipe
 (6) Brush for floor (460mm long) (7) Vacuum hose (φ 38mm × 2.5m)

■ Appearance



■ Specifications

series		V-2Σ			V-3Σ			V-3SDR			V-5Σ			V-7Σ			V-7SDR								
Power supply (V·Hz)		3-phase,200·50/60 (special for each)																							
Output (kW)		1.5			2.2			2.2			3.7			5.5			5.5								
Air capacity (m3/min)		0	2	4.2	0	2.5	5.1	0	2.4	4.8	0	3.3	6.0	0	3.3	6.4	0	2.7	5.7						
Static pressure (kPa)		9.81	9.32	5.39	14.7	13.2	8.04	12.4	10.9	7.9	22.1	19.1	9.81	26.0	22.6	9.81	22.6	19.7	9.7						
Noise (dB [A])		67±2			70±2			74±2			72±2			72±2			74±2								
Filter	Molded	Area (m2)	2																						
		Quantity	1																						
		Filter shaking	Auto/manual					Manual					Auto/manual					Manual							
	Woven cloth	Area (m2)	0.7					—					1.2					—							
		Quantity	1					—					1					—							
		Filter shaking	Manual					—					Manual					—							
Bucket capacity (ℓ)		27									60														
Power cord (m)		10m(4-core)						15m(4-core)						10m(4-core)						15m(4-core)					
Suction port diameter (mm)		φ 38.1																							
Dimensions (mm)		380 × 908 × 920						496 × 1123 × 1052						480 × 1260 × 1020						621 × 1430 × 1194					
Mass (kg)		95			104			109			180			207			200								

Power Error Stop Function

The fan motor does not operate if it has:

- Negative phase,
- Abnormal voltage drop.

About Remote Control

To have another operation switch at a distance for remote control, you need to specify remote control requirements. Please specify such requirements when you place an order. Note that the standard specifications do not include remote control capability. For more information about remote control, consult our sales representative.

For Safe Use

[V-Σ]

- Before using, read the instruction manual thoroughly.
- Do not vacuum the following:
 - flammable materials such as gasoline, thinner, benzene, kerosene, paint etc
 - explosive materials such as aluminum, magnesium, titanium, zinc, epoxy, resin, etc
 - sparkling particles produced from high-speed cutter, grinder, welder, etc
 - fire remains such as butt, ash, etc
 - liquids such as water, oil, chemical, etc
- Do not use in and around any place where flammable, explosive and corrosive mist, smoke or gases have been accumulated.
- Be sure to put your cleaner to the ground for protection against electric shock.
- For vacuuming explosive dust and particles, several types of dust-explosion pressure diffusion types are available. Contact our sales personnel.

- If you want to use as a central cleaner system, install your cleaner using pipes of the optimum diameter and shortest possible length according to dust collecting conditions so that the pipes will not have any clod of dust clogged.

[V-SDR]

- The dust-explosion pressure diffusion types are all structured so that they are less likely to cause dust explosion but not prevent such explosion completely.
- The dust-explosion pressure diffusion types do not vacuum all kinds of dust and particles. Before using, consult our branch or sales office for details of your objective dust and particles.
- Do not draw in the magnesium or magnesium alloy particles, which have characteristics of high explosion intensity.
- For the dust-explosion pressure diffusion types, observe the cautions for V-Σ except for above ones.
- Do not expose your body over any dust-explosion pressure diffusion types.
- Dispose the dust vacuumed every day. Do not accumulate too much dust in the bucket.

Specifications and descriptions contained in this catalog may be subject to change without notice.

Please direct any questions to:



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