

Inverter Commercial Unit mod. 595T 120AIB

Year 2025

Technical Sheet
generaldaspirazione.com





Deep Hygiene



Silent



Safe



Eco Friendly



Practical



Versatile

Inverter commercial unit mod. 595T120AIB.

Users: 5 simultaneous users

Work area: 4.000/5.000 m²

Composed by three main components:

- Side-channel vacuum turbine with soundproofed box
- Cyclonic dust collection separator
- Electrical panel with inverter and LCD display panel

Installation: The Commercial Unit is composed of three elements that can be installed at variable distance depending on the technical room layout. The side-channel turbine can be installed either vertically or horizontally position.

Power on/off: Standard configuration allows connection to the low-voltage line of vacuum sockets. Alternatively, it can be connected to the patented IWS system for control via the remote integrated into the handle, without any low-voltage wiring between sockets.

Side-channel vacuum turbine: Supplied with a metal soundproof box, painted white. Wide frequency range from 30 to 86 Hz. The turbine is coupled with a brushless electric motor (no sliding parts), requiring no maintenance. Double impeller for increased stability. Average life: 40,000 hours.

Inverter Management: The turbine's performance and power consumption continuously adapt to the kind of surface being cleaned and the number of simultaneous users are using the system, reducing energy usage by up to 50% and extending the vacuum unit's average life.

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Pressure transducer: Integrated sensor for real-time depression monitoring.

Self-Cleaning filter: Cyclonic separator equipped with an electro-pneumatic self-cleaning system with programmable timings, dedicated compressor and air tank. The filter is kept clean by jets of compressed air along its internal surface, freeing it from dust which then falls into the dust bag. Ensures constant vacuuming performance, restricting the maintenance times. Washable polyester filter.

Removing of dust container: Quick-release handle of dust container removal with wheels.

Main switch: switch for protection and power supply of the unit.

Two frontal quick buttons: One for maintenance reset, one for manual self-cleaning filter.

Galvanized steel components for the air exhaust line included in the packaging:

- 1 Steel silencer Ø100 for exhaust noise reduction
- 2 Steel elbows MM 45° Ø100
- 4 Steel sleeves FF Ø100
- 1 Metal cap with grid Ø100

Also included: PVC material for connection between turbine and cyclonic separator, including 2 rubber sleeves Ø100, 4 metal clamps, and 1 dust bag.

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Display LCD Panel: A user-friendly interface that allows intuitive visualization of the Commercial Vacuum Unit's parameters and settings (inverter, self-cleaning, maintenance, and alarms), with customizable favorites and self-cleaning times based on the final user needs. The panel can also be remoted via UTP Cat. 5e RJ-45 cable.



Technical Information.

Technical data		Mod. 595T120AIB
Users*		5
Work area	m ²	4000-5000
Self-cleaning		YES
Inverter		YES
Soundproof box for turbine		YES
Metal silencer for air exhaust		YES
Cyclone separator technical data		
Container capacity	l	120
Diameter	cm	Ø55
Filter surface area	m ²	6
Inlet/outlet diameter	mm	Ø100
Height	cm	161
Width	cm	74
Depth	cm	79
Weight	kg	100
Performance technical data		
Operating airflow at 160 mbar	m ³ /h	720
Maximum airflow	m ³ /h	860
Operating vacuum – setpoint	mbar	160
Maximum operating vacuum setting	mbar	220
Maximum vacuum	mbar	520
Maximum noise level**	dB A	74
Electrical technical data		
Motor Power	Kw	9.5
Power Supply	V	380
Supply Frequency	Hz	50/60
Current draw	A	19
Motor thermal protection		YES
Overcurrent protection		YES
Maximum frequency	Hz	86
Protection rating		IP20
Electrical insulation		

The number of users may vary depending on the type of application **Noise level measured according to UNI EN ISO 3744 standard

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Since 1974 pioneers in the Italian market
in centralized vacuum cleaning sector.



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Optional features

BMS Interface: Ready to be equipped with a four-output relay module allowing connection to the building's BMS to receiving signals such as motor ON, general fault, container monitoring, and filter control.



Vortex Pre-Separator: Keeps over 98% of vacuumed dust through cyclonic motion, without any internal filter to clean. Protects the vacuum unit, significantly improving self-cleaning performance in environments with large quantities of fine dust. Can be integrated into existing systems and it is recommended where fine dusts are prevalent.

Vortex Pre-Separator with Automatic Discharge: Maintains all features and benefits of the standard Vortex, with the addition of an automatic discharge system. Ideal for vacuuming large volumes of material where collected product needs to be directed into dedicated containers. Support frame customizable to specific needs.

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Pre-Separator Vortex



With Automatic Discharge





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