

HARVEY®

| **GYR AIR**®

A Revolutionary Solution for Dust Control



G-700

Wood Dust Processor

- HEPA Filter
- 15m Wireless Remote Control



G-700 Wood Dust Processor

HARVEY



CE

G-700 Dust Processor



Dust

Problems that Have Never Been Solved

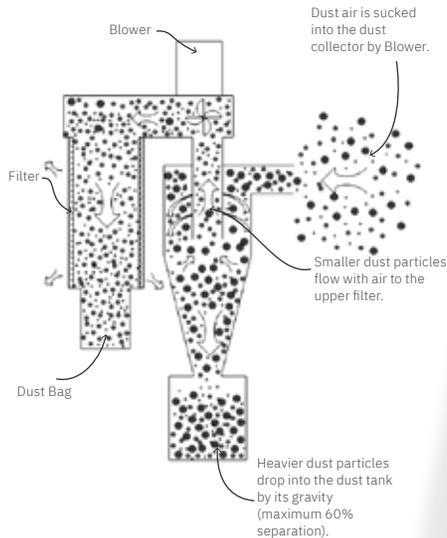
In a woodworking shop, wood dust is always a big problem for woodworkers. Flying dust particles can severely harm not only the health of operators but also the environment. In past decades, woodworkers mostly used traditional dust collectors, such as bag collectors, or cyclone collectors.

However, all of these existing collectors have never really solved the problems, instead, they created more issues:

- **Very High Noise Levels (95-100 dB(A))** – constantly damages operators' ears
- **Difficult Maintenance** – filters are easily clogged by dust and need to be cleaned frequently
- **Bulky Structure** – it occupies a very large space in a woodworking shop
- **Large Power Consumption** – normally requires 3 - 5 HP with expensive operating costs

Traditional Cyclone Dust Collectors

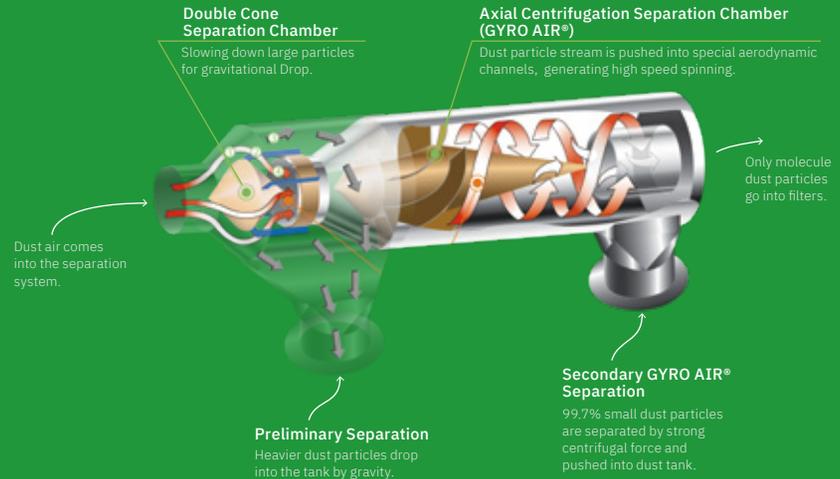
Cyclone dust collectors separate dusts by gravity (see diagram below). As gravity is not strong enough to push down small particles, only heavy dusts drop to dust tank. Up to 40% small dust particles are pushed up to filters which will be easily blocked, causing that the sucking static pressure drops rapidly. In addition, the dusty air flows in the cyclone and creates very large noise/vibration and energy consumption. All these problems have never been solved until now.



GYRO AIR® Dust Processors

The GYRO AIR® Dust Processor technology has revolutionized dust collecting. It was designed with Harvey's invention of Axial Centrifugation Technology (or called GYRO AIR® Technology) which is completely different than any existing dust collector on the market. The GYRO AIR® Technology spins the flowing dust stream at high speeds (over 4000 rpm), which generates a significant centrifugal force on dust particles (over 100g) causing them to be pushed away from the air flow center and depositing them into dust tanks. The clean air remains in the chambers and any remaining fine particles are collected in the air filters. This process can successfully separate 99.7% of the dust particles from the air, which greatly increases the life of the filters.

Due to the efficiency of the air separation technology and coupled with the unique horizontal structure, the operation noise is minimized to a pleasant level of 61 dB(A) and the power consumption is minimized to 1.5 kW.



G-700 Wood Dust Processor

A Revolutionary Dust Processor

Because of the principal contradiction between dusty air flow and filtration, traditional dust collectors are struggling with filter clogging or bad air quality. Most of the dust collectors are very loud, bulky and difficult to maintain. This has been a long-standing pain for woodworkers.

To solve this problem, the Harvey team of engineers spent over 7 years of research and study, to develop an unprecedented Dust Collector, the GRYO AIR® G-700 Wood Dust Processor. The G-700 GYRO AIR® Wood Dust Processor incorporates a unique, patented technology to separate dust particles from the air and capture them before they enter the filters. The G-700 uses the new Axial Centrifugation Technology (called GYRO AIR® Technology), to spin the air/dust stream up to 4,000 RPM and generate a super strong centrifugal force (over 100 times gravity) to separate the dust from the air and collect it in two dust bins hidden internally in the unit. The G-700 collects 99.7% of the dust particles before the air reaches its HEPA filters. This not only means much less cleaning of the filters, but that the airflow and static pressure will remain much more constant during operation. In addition, the air emission cleanliness level from the filters can reach an unbeatable 0.05 mg/cubic meter (50% better than the European Standard of 0.1 mg/cubic meter). The entire extraction system is aerodynamically optimized with extraordinary running efficiency, so it can save up to 50% in energy costs.

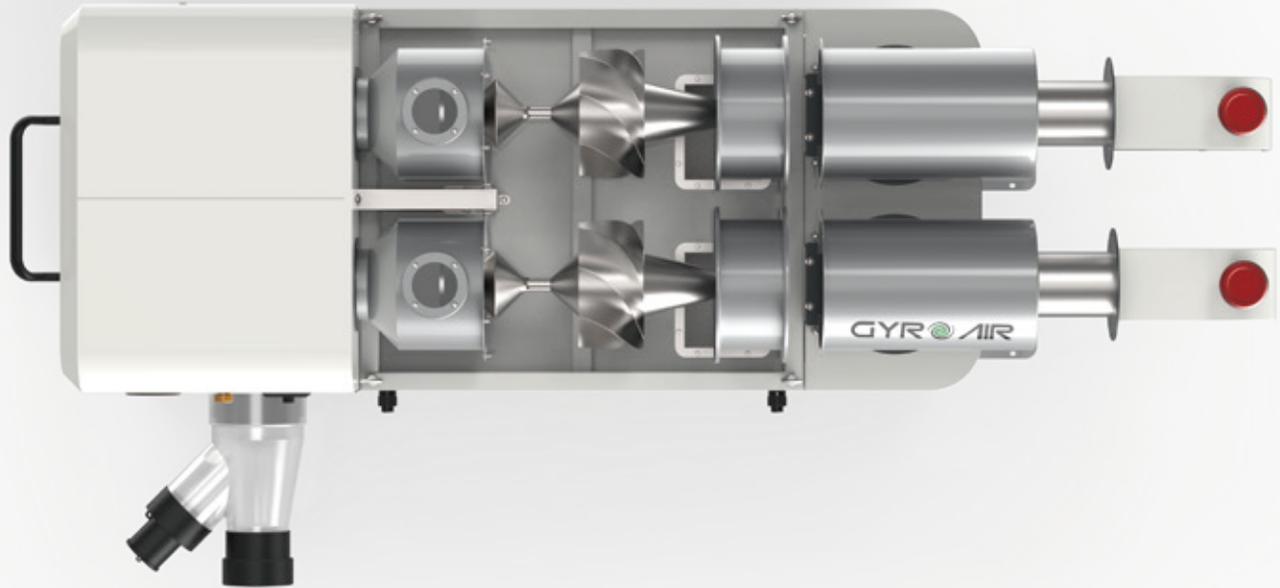
The GYRO AIR®

technology and its unique aerodynamic design allow the G-700 GRYO AIR® to run at an incredibly low noise level of 61 to 72 dB(A), depending on which speed you run the GYRO AIR® ... yes, it is a variable-speed machine that allows you to adjust the airflow to suit your needs. The G-700 is powered and controlled by a SIEMENS industrial 2HP motor and SIEMENS V20 Variable Frequency Driver for 24/7 applications. In addition, the GYRO AIR® G-700 is equipped with a built-in Dust-Bin monitor and a Remote Control Key.

Its fully enclosed housing is short enough to fit under most benches, and it has heavy-duty casters to allow it to move as needed. The two dust bins are sealed when in use but are then easily accessed through a panel on the side of the unit, and they roll out for easy emptying (and you can use disposal bags to take out wood chips).



State of Art Engineering for Life Time Reliability



Features and Benefits



High Efficiency

99.7% dust separation before filtration

Energy Savings

Up to 50% energy savings (only 1.5 kW)

Quiet

Super low noise 61-72 dB(A)

Extremely Clean Emission

Filter emission rating 0.05 mg/m³

Never Blocked

Powerful and consistent static pressure

- 99.7% dust separation efficiency before filtration
 - Super low noise (61 -72 dB(A))
- Compact size with built-in mobility kit
- Powerful and consistent static pressure
 - Up to 50% energy savings (only 2 HP)
 - HEPA filters 0.3 micron
- Extremely clean emission (0.05 mg/m³)

- SIEMENS industrial motor and VFD speed control
- Intelligent dust-full monitor
- Remote control
- Power coated steel frame
- Stainless steel dust separation system
- Convenient tool-less dust tank cleaning
- 1-2 Dust port adapter
- RED-DOT industrial design award

Standard Equipment



Pressure Gauge



Buzzer for the Alert of Dust Bin Full



Control Panel with Variable Speed Control



Dust Port Adaptor



Dust Separation System



Manual Filter Cleaning



Built-in Mobility Kit



2x Filters



Dust Bin Inside the Machine



Remote Control



Specifications

Electrical	Imperial	Metric	Performance	Imperial	Metric
Power Requirement	220 V, Single Phase, 60 Hz	220 V, Single Phase, 50 Hz	Max. Air Flow	1110 CFM	1885 m³/h
Breaker Size	20 A	20 A	Max. Static Pressure	18-1/2 inch water	4600 Pa
Inverter Type	Siemens V20	Siemens V20	Max. Air Flow @4 inch hose	700 CFM	1190 m³/h
Motor	Imperial	Metric	Static Pressure @ 4 inch hose	5-5/8 inch water	1400 Pa
Type	TEFC Induction	TEFC Induction	Impeller Size	12 in.	300 mm
Power	2 HP	1.5 kW	Main Inlet Size	6 in.	150 mm
Rated Amps	5.8 A	5.8 A	Adapter Inlet Size	4 in. x 2	100 mm x 2
Speed	2280-4275 rpm Variable	2280-4275 rpm Variable	Filter Emission Rating	0.05 mg/m³	0.05 mg/m³
Product Dimensions	Imperial	Metric	Filter Surface Area	75 SF	7 m²
Overall Dimension	56-1/4 x 23-1/2 x 33-7/8 in.	1430 x 579 x 858 mm	Noise Rating @3m	61-72 dB(A)	61-72 dB(A)
Packing Size	59 x 28-1/2 x 42-1/4 in.	1500 x 725 x 1072 mm	Max. Dust Bin Capacity	32 GAL	120 L
Product Weight	Imperial	Metric	Manual Filter Cleaning	Yes	Yes
Net Weight	445 lbs	195 kg	Intelligent Dust-Full Monitoring system	Yes	Yes
Gross Weight	510 lbs	222 kg	Pressure Gauge	Yes	Yes

Application Scenarios

G-700 is used to collect the dust in the process of turning for keeping the good quality of air in the workshop.





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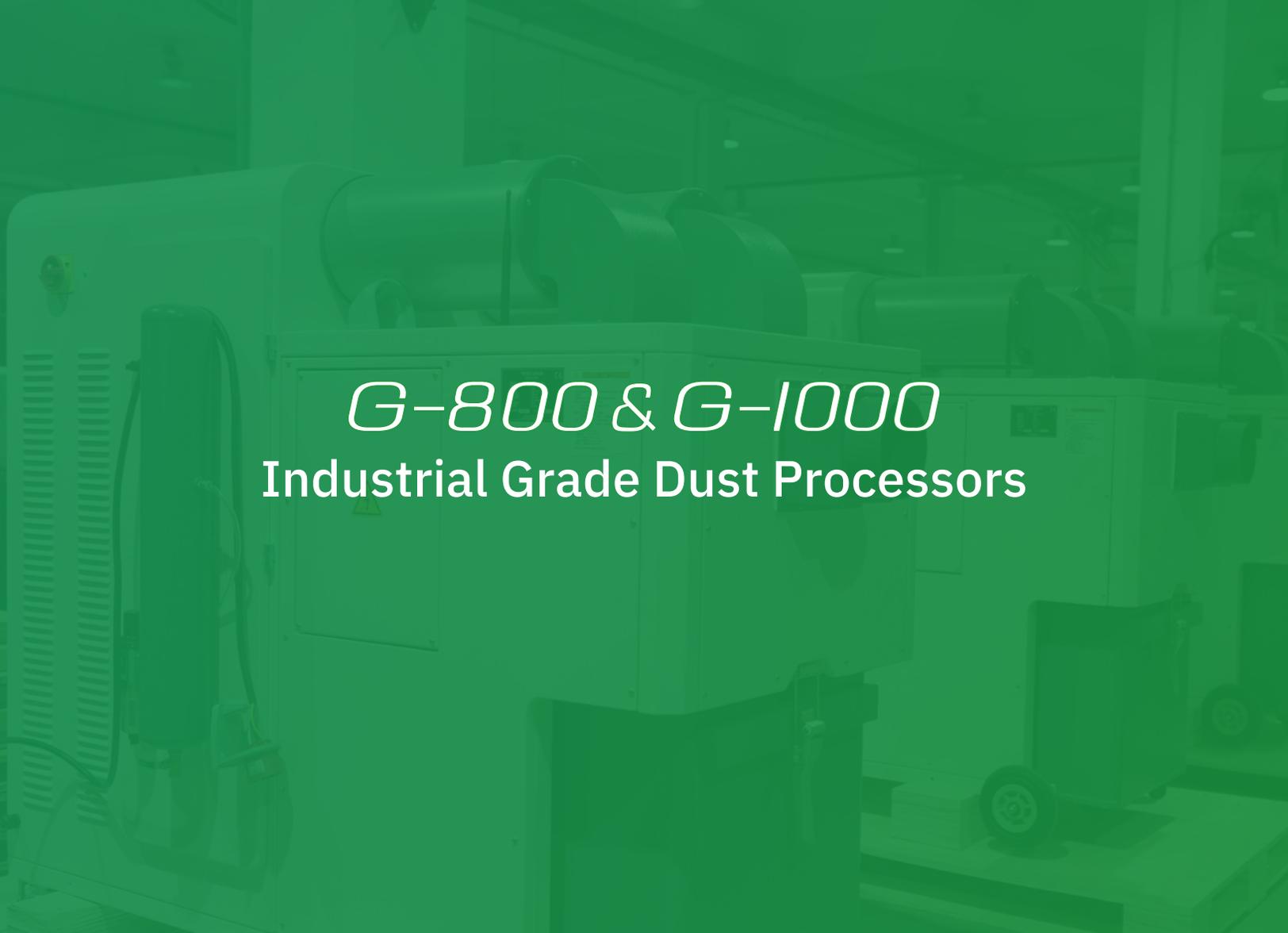


G-800 & G-1000

Industrial Grade Dust Processors

- Flow Cruise Mode: stable suction capability
- Speed Adjustment Mode: more intelligent multiple-scenarios usage



A large, white industrial dust processor machine is shown in a factory setting. The machine has a large, curved top section and a vertical panel on the left side with a handle. The background shows other industrial equipment and a factory floor. The entire image is overlaid with a semi-transparent green filter.

G-800 & G-1000

Industrial Grade Dust Processors

G-800 & G-1000

- After more than 7 years of research and thousands of hours of testing, Harvey has succeeded in developing the revolutionary dust collectors--the GYRO AIR® Dust Processors G-800 and G-1000.
- Unlike any other dust collectors, the GYRO AIR® G-800 and G-1000 separate 99.7% of dust particles from the air by centrifugal force. Only 0.3% of the dust finally enters the HEPA Filters. This patented technology substantially reduces the clogging of dust particles in the filters while greatly increasing the efficiency of the dust collection. The GYRO AIR® technology coupled with its unique aerodynamic design, allows the G-800 and G-1000 to keep a high performance of dust collection consistently at 7 x 24 industrial operations without maintenance and deliver a super clean emission of 0.05 mg/m³.



G-800 & G-1000

- The GYRO AIR® Dust Processors have completely overturned the current perceptions of traditional dust collectors. With its unique industrial design, the GYRO AIR® has a high efficiency blower, an intelligent variable speed control and monitoring system, low noise level (61-72 dB(A)), minimal vibration, compact size and is easy to maintain.
- The GYRO AIR® Dust Processor is a dream come true for users in metal working, woodworking, composite machining, stone cutting, polishing, and other operations.



Features and Benefits

• Separates Up to 99.7% of Dust Particles from the Air Before Filtration
Unique GYRO AIR® technology

• Strong Suction Capacity
Max. Air Flow: 1300 CFM
Max. Static pressure: 21 inch water
Max. Air Flow: 1600 CFM
Max. Static pressure: 25 inch water

• Low Noise Level
Super quiet (61-72 dB(A))

• Unique Flow Cruise
Automatic adjustment for consistent air flow

• Wireless Synchro-control
Synchronize start/stop of source equipment

• Extremely Clean Emission
HEPA grade filter with an emission cleanliness level of 0.05 mg/m³

• Certifications
CE Certified for Health, Safety and Environmental

• Easy Maintenance
Tool-less detachable filters

• Less Clogging of Filter
The GYRO AIR® technology efficiently separates 99.7% of dust particles from the air before filtration, providing the benefit of a lower load on the filters resulting in a longer filter life.

• Intelligent Control
Real time monitoring for dust height in the bin, filter clogging and motor status. It also has intelligent automatic filter cleaning, intelligent wireless linkage to source machine, wireless remote control, and a timer for delayed automatic air cleaning.

• Remarkable Designs and Low-cost Installation
The GYRO AIR® is equipped with heavy duty casters so it can be positioned near the dust source if duct work is not needed or wanted in your shop.



Easy Maintenance

- Both the replacement of the filters and the cleaning of the dust bins can be unpleasant on a traditional dust collection system. The GYRO AIR® has simplified this process:
 - The removal of the filters is easier by loosening the locking knob of the filter and pulling out the whole filter assembly with no tools needed.
 - The dust bin liner is absorbed on the inner wall of the bin by negative pressure so there is no need to support the liner. The dust bin can be pulled out easily for replacing the liners with a quick release wrench.



Synchronous Control



Remote Control

Wireless Control

- For convenience, the GYRO AIR® is equipped with an easy to use wireless remote control to start or stop the unit within a work area of 20 meters.
- After an initial set-up, the wireless synchro-control, will automatically start and stop the GYRO AIR® through WIFI with the equipment it's hooked up to for dust collection.



Friendly Operation Experience

Presentation for Main Interface of G-800's and G-1000's Control Panel



G-1000's Control Panel



G-800's Control Panel



Interface of Intelligent Dust Cleaning

Intelligent Dust Cleaning

- In order to ensure the fixed flow and wind speed, the GYRO AIR® is equipped with an intelligent dust cleaning system. Once the filter clogging is detected in running, the machine will clean the filter by high-pressure air to ensure that the filter is not clogged.
- Manual dust cleaning can be performed anytime to ensure the cleanliness of the filter.

Speed Adjustment Mode and Flow Cruise Mode

- The GYRO AIR® Dust Collector can be connected to multiple units;
- In order to ensure the same dust collecting capacity, you can choose the flow cruise mode. The GYRO AIR® dust collector adopts the Siemens VFD variable speed, which ensures the stable output of power to the motor causing it to run at a high efficiency without overload.
- The speed adjustment mode allows the user to adjust the speed according to the number of units being used with the GYRO AIR®, whether it be a single unit or multiple units. The speed adjustment has the capacity to meet different needs of dust collecting while saving energy.



Interface of Speed Adjustment Mode and Flow Cruise Mode



— Specifications of G-800 —

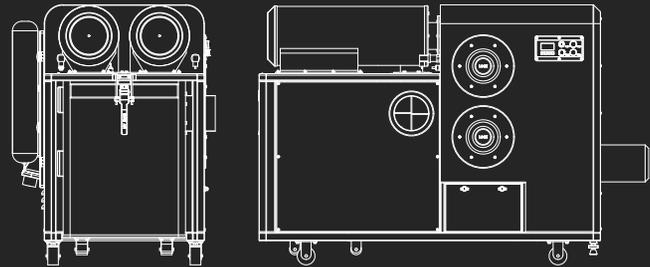
Electrical	Metric	Imperial
Power Source	200-240 V, 50 Hz	200-240 V, 60 Hz
	Single Phase	Single Phase
Main Motor	2.2 kW	3 HP
Frequency Converter	Siemens V20	Siemens V20

Dimensions & Weights	Metric	Imperial
Overall Dimension	1655x880x1100 mm	65-1/8X34-5/8X43-1/2 in.
Packing Size	1800x1000x1310 mm	70-7/8X39-1/2X51-1/2 in.
Net Weight/Gross Weight	275/310 kg (approx.)	605/685 lbs (approx.)

Performance	Metric	Imperial
Inlet Size	φ150 mm and φ125 mm	6"
Max. Air Flow	2200 m³/h	1300 CFM
Max. Static Pressure	5200 Pa	21 inch water
Vacuum@22m/s	2500 Pa@φ125 mm	/
Blower Speed	2400-4200 rpm	2400-4200 rpm
Filter Efficiency	99.95%@0.3 μm	99.95%@0.3 μm
Emission	0.05 mg/m³	0.05 mg/m³
Filter Area	8 m²	86 SF
Number of Filters	2	2
Noise Level	61-72 dB(A)	61-72 dB(A)
Dustbin Capacity	140 L	37 Gal

Features	Metric	Imperial
Smart Jet-Pulse Filter Cleaning	Standard	Standard
Dust Full Monitor	Standard	Standard
Filter Monitor	Standard	Standard
Flow Cruise	Standard	Standard
Wireless Remote Control	Standard	Standard
Wireless Synchronized Control	Standard	Standard

Optional accessories	Metric	Imperial
Remote Control(RC-800/1000)	Yes	Yes
Synchronized Control(SC-800/1000)	Yes	Yes
Y-Adapter(YA-150-2x100)	Yes	Yes
Dust Bag(DB-800)	Yes	Yes



Dust class M
Transmittance < 0.1%. Class M dusts are considered
"moderately" toxic.

— Specifications of G-1000 —

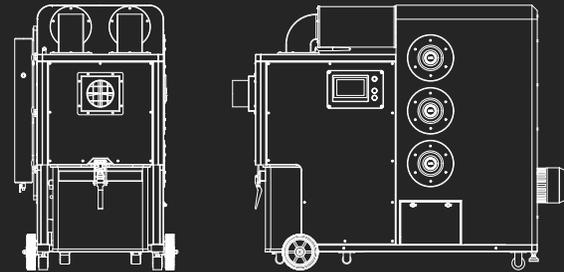
Electrical	Metric	Imperial
Power Source	380-480 V, 50 Hz	380-480 V, 60 Hz
	Three Phase	Three Phase
Main Motor	3 kW	4 HP
Frequency Converter	Siemens V20	Siemens V20

Dimensions & Weights	Metric	Imperial
Overall Dimension	1870x 940 x 1500 mm	73-3/5X37X59 in.
Packing Size	2140x1100x1730 mm	84-1/4X43-1/4X68-1/8 in.
Net Weight/Gross Weight	445/545 kg(approx.)	980/1200 lbs(approx.)

Performance	Metric	Imperial
Inlet Size	Φ160 mm and Φ140 mm	6"
Max. Air Flow	2700 m³/h	1600 CFM
Max. Static Pressure	6200 Pa	25 inch water
Vacuum@22m/s	2200 Pa@ Φ140 mm	/
Blower Speed	2400-4200 rpm	2400-4200 rpm
Filter Efficiency	99.95%@0.3 μm	99.95%@0.3 μm
Emission	0.05 mg/m³	0.05 mg/m³
Filter Area	12.6 m²	136 SF
Number of Filters	3	3
Noise Level	61-72 dB(A)	61-72 dB(A)
Dustbin Capacity	150 L	40 Gal

Features	Metric	Imperial
Smart Jet-Pulse Filter Cleaning	Standard	Standard
Dust Full Monitor	Standard	Standard
Filter Monitor	Standard	Standard
Flow Cruise	Standard	Standard
Wireless Remote Control	Standard	Standard
Wireless Synchronized Control	Standard	Standard

Optional accessories	Metric	Imperial
Remote Control(RC-800/1000)	Yes	Yes
Synchronized Control(SC-800/1000)	Yes	Yes
Y-Adapter(YA-150-2x100)	No	Yes
Dust Bag(DB-1000)	Yes	Yes



 Dust class M
Transmittance < 0.1%. Class M dusts are considered
"moderately" toxic.

Application Scenarios

G-800 is used to collect the dust leaking from the process of powder material compression, to achieve the following results:

1. Recycle the leaking dust for saving material.
2. Keep the table clean without hand cleaning.
3. Keep the air quality of workshop in good level.



Concrete



Wood



Plastic



Flour



Metal



Brick

Application Scenarios

G-1000 is used to collect the dust produced in the polishing process of toxic material, to achieve the following results:

1. At the working area, G-1000 will collect all the dust produced by polishing to achieve zero-leakage collection.
2. The density of PM10 in the breathing area and the whole workshop can be controlled below $60\mu\text{g}/\text{m}^3$, and the air quality of the workshop can reach the excellent level.



Graphite



Chalk



Welding fumes



Rubber/Leather



Carbon fibers / fibreglass

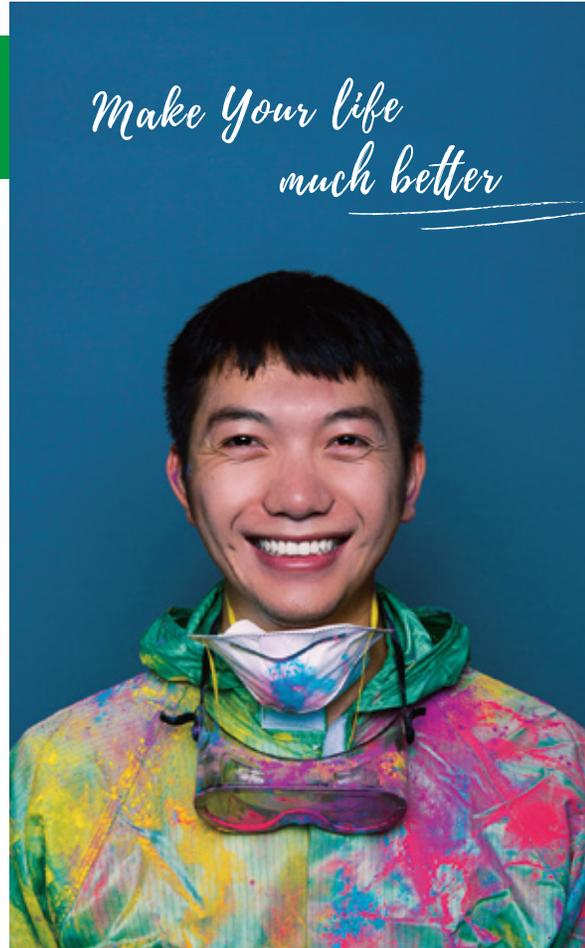
GYRO AIR® G-800 and G-1000 are proven to be able to handle above 9 kinds of particles or dust (depending on application scenarios, different filters can be chosen)



When choosing GYR AIR[®] dust processors



Before



After

Easier Purchase!

In order to make it easier for you to record your purchase information, we have prepared a small list for you. Wish you a happy purchase.



G-700

Order Quantity

(Units)



G-800

Order Quantity

(Units)



G-1000

Order Quantity

(Units)

For more information, please contact with VIP Line: 0086-025-8666 8191 / 8192 / 8193 / 8198



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