

GREELOY® GA-83 SERIES

Dental Oil-Free Air Compressors

GA-83 | GA-83X | GA-83Y

2400W • 465 L/min at 0 bar • 90L tank • Oil-free piston design

Series overview

A compact product guide for comparing the standard, silent-cabinet, and dryer configurations in the GA-83 platform.

GA-83 Standard configuration Open compressor platform For installations where a separate equipment area is available.	GA-83X Silent cabinet configuration GA-83 platform + acoustic cabinet For locations where lower operating noise at the installation point is a priority.	GA-83Y Dryer configuration GA-83 platform + adsorption dryer For applications that require an integrated air-drying stage.
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Product information note

Published specifications can vary by market, measurement method, and production batch. Confirm the ordered voltage/frequency, plug, outlet connection, included accessories, and current nameplate data before purchase or installation.

SERIES OVERVIEW

GA-83 Series at a Glance

All three models share the same core compressor platform. The main purchasing difference is the air-treatment and noise-control configuration.

2400W Total power	465 L/min Air flow at 0 bar	90L Air tank	8 / 5 bar Stop / restart pressure
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Model	Core configuration	Noise control	Air drying
GA-83	Standard oil-free compressor	Standard open configuration	No integrated dryer
GA-83X	Oil-free compressor + silent cabinet	Cabinet reduces sound at installation point	No integrated dryer
GA-83Y	Oil-free compressor + adsorption dryer	Standard open configuration	Integrated adsorption dryer

Typical application

- Dental clinics and dental laboratories requiring an oil-free compressed-air supply for compatible equipment.
- Select the model by installation noise requirement, need for integrated drying, and available equipment-room space.
- Actual system sizing should be based on the total simultaneous air demand of connected equipment.

Core Features

The following points focus on functional features and purchasing-relevant specifications, without comparative or lifespan claims.

Oil-free piston design No lubrication oil is required for compressor operation.	Three-motor platform Three 800W motors provide 2400W total rated power.
90L air storage tank Stores compressed air between compressor cycles.	Automatic pressure control Published stop pressure: 8 bar; restart pressure: 5 bar.
Filter regulator Provides outlet-pressure adjustment and air filtration.	Coated tank interior The internal tank surface is treated/coated as part of the tank construction.
Vibration reduction Rubber feet are used to reduce vibration transfer.	Voltage / frequency options Published configurations cover 110-240V and 50/60Hz; confirm the ordered version.

Model-specific functions

- GA-83X: silent cabinet encloses the compressor assembly and provides additional acoustic separation.
- GA-83Y: integrated adsorption dryer adds an air-drying stage before outlet use.
- GA-83: standard open configuration without the X cabinet or Y dryer module.

Filtration data note

Some distributor listings publish filtration values such as dust content 0.001 PPM and oil content 0.0 PPM. These values should only be used in customer-facing regulated claims when supported by current test documentation for the delivered configuration.

GA-83 — Standard Configuration

The base GA-83 configuration combines the three-motor oil-free compressor platform with a 90L tank in an open layout.

Key configuration • Oil-free piston compressor • 3 x 800W motors • 90L air tank • Filter regulator • Open compressor layout	Published performance • Air flow: 465 L/min at 0 bar • Noise level: approx. 53-54 dB • Speed: 1400/1750 r.p.m. • Max pressure: 8 bar • Restart pressure: 5 bar
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GA-83X — Silent Cabinet Configuration

GA-83X uses the same 2400W / 465 L/min / 90L platform and adds a cabinet around the compressor assembly.

Cabinet functions • Encloses the compressor assembly • Adds acoustic separation at the installation point • Uses cabinet ventilation/cooling openings	Published noise data GA-83X listings currently vary from approximately 43 dB to 53 dB. Confirm the current batch and measurement condition when noise level is a critical purchasing requirement.
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MODEL DETAILS

GA-83Y — Adsorption Dryer Configuration

GA-83Y adds an adsorption dryer to the standard GA-83 compressor platform for applications that require an integrated drying stage.

Dryer configuration • Integrated adsorption dryer • Oil-free piston compressor • 2400W total power • 465 L/min air flow at 0 bar • 90L tank	Published operating data • Noise: approx. 53 dB • Speed: 1400/1750 r.p.m. • Maximum pressure: 8 bar • Restart pressure: 5 bar • Voltage/frequency options: 110-240V, 50/60Hz
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Which model fits the installation?

If the priority is...	Consider	Reason
Standard compressor installation	GA-83	Base configuration with no cabinet or integrated dryer.
Lower installation-point noise	GA-83X	Adds the silent cabinet around the compressor platform.
Integrated air-drying stage	GA-83Y	Adds an adsorption dryer to the compressor platform.

Technical Comparison

Core data below are compiled from current Greeloy manufacturer listings and established distributor listings. Values marked “approx.” or as a range have conflicting published figures.

Specification	GA-83	GA-83X	GA-83Y
Configuration	Standard	Silent cabinet	Adsorption dryer
Power	2400W (3 x 800W)	2400W (3 x 800W)	2400W (3 x 800W)
Air flow	465 L/min at 0 bar	465 L/min at 0 bar	465 L/min at 0 bar
Tank capacity	90L	90L	90L
Max pressure	8 bar (115 psi)	8 bar (115 psi)	8 bar (115 psi)
Restart pressure	5 bar (72 psi)	5 bar (72 psi)	5 bar (72 psi)
Speed	1400/1750 r.p.m.	1400/1750 r.p.m.	1400/1750 r.p.m.
Noise (published)	Approx. 53-54 dB	Approx. 43-53 dB*	Approx. 53 dB
Voltage / frequency	110-240V, 50/60Hz**	110-240V, 50/60Hz**	110-240V, 50/60Hz**
Oil-free design	Yes	Yes	Yes
Silent cabinet	No	Yes	No
Integrated dryer	No	No	Yes - adsorption dryer

* Noise figures are published values; measurement conditions are not consistently stated across listings. GA-83X listings currently vary between approximately 43 dB and 53 dB.

** 110-240V / 50-60Hz is published as the available electrical range. Confirm the exact ordered configuration rather than assuming a single unit is universal-voltage.

Selected distributor listings also publish: vibration intensity ≤ 0.5 mm, outlet tube 5 x 8 mm, ambient temperature -5 to 45°C, protection class IP43, 3 mm tank wall, dust content 0.001 PPM, and oil content 0.0 PPM. Verify these secondary values against the current nameplate/manual and supporting test documentation before technical or regulated claims.

Installation and Routine Maintenance

Installation

- Place the compressor on a level, dry, ventilated surface.
- Keep cabinet vents and motor cooling areas clear.
- Confirm voltage, frequency, plug, grounding, and local electrical requirements before connection.
- Use pressure-rated hose/fittings compatible with the compressor outlet and connected dental equipment.
- Allow access for drainage, filter service, and routine inspection.

Routine maintenance

- Drain condensate from the air tank regularly based on use and humidity.
- Inspect filters, regulator, hoses, fittings, and connections.
- Keep air-intake and cooling paths free of blockage.
- Power off and depressurize the system before maintenance.
- For GA-83Y, service the dryer components according to the current dryer instructions.

Pre-order checklist

- Required model: GA-83, GA-83X, or GA-83Y.
- Voltage / frequency and plug type.
- Available installation space and ventilation.
- Required noise-control level at the installation point.
- Need for an integrated dryer or other downstream air treatment.
- Outlet hose/fitting compatibility.
- Total simultaneous air demand of connected equipment.
- Included accessories and current warranty/service terms.