

GREELOY® GA-82 SERIES

Dental Oil-Free Air Compressors

GA-82 | GA-82X | GA-82Y

1600W • 310 L/min at 0 bar • 60L tank • Oil-free piston design

Series overview

A compact product guide for comparing the standard, silent-cabinet, and dryer configurations in the GA-82 platform.

GA-82 Standard configuration Open compressor platform For installations where a separate equipment area is available.	GA-82X Silent cabinet configuration GA-82 platform + acoustic cabinet For locations where lower operating noise at the installation point is a priority.	GA-82Y Dryer configuration GA-82 platform + adsorption dryer For applications that require an integrated air-drying stage.
--	---	---

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.

GA-82 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.

1600W Total power	310 L/min Air flow at 0 bar	60L Air tank	8 / 5 bar Stop / restart pressure
-----------------------------	---------------------------------------	------------------------	---

Model	Core configuration	Noise control	Air drying
GA-82	Standard oil-free compressor	Standard open configuration	No integrated dryer
GA-82X	Oil-free compressor + silent cabinet	Cabinet reduces sound at installation point	No integrated dryer
GA-82Y	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.	Dual-motor platform Two 800W motors provide 1600W total rated power.
60L 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-82X: silent cabinet encloses the compressor assembly and provides additional acoustic separation.
- GA-82Y: integrated adsorption dryer adds an air-drying stage before outlet use.
- GA-82: 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-82 — Standard Configuration

The base GA-82 configuration combines the dual-motor oil-free compressor platform with a 60L tank in an open layout.

Key configuration - Oil-free piston compressor 2 x 800W motors 60L air tank - Filter regulator - Open compressor layout	Published performance - Air flow: 310 L/min at 0 bar - Noise level: 52 dB - Speed: 1400/1750 r.p.m. - Max pressure: 8 bar - Restart pressure: 5 bar
---	---

GA-82X — Silent Cabinet Configuration

GA-82X uses the same 1600W / 310 L/min / 60L platform and adds a cabinet around the compressor assembly.

Cabinet functions - Provides an enclosed installation format - Reduces sound transmission from the compressor assembly - Includes ventilation/cooling provisions in published product images/listings	Published noise data Common listings state approximately 42-43 dB for GA-82X. Other listings publish higher figures. Confirm the current batch and measurement condition if noise level is a critical purchasing requirement.
---	--

GA-82Y — Adsorption Dryer Configuration

GA-82Y adds an adsorption dryer to the standard GA-82 compressor platform for applications that require an integrated drying stage.

Dryer configuration • Integrated adsorption dryer • Oil-free piston compressor • 1600W total power • 310 L/min air flow at 0 bar • 60L tank	Published operating data • Noise: 52 dB • Speed: 1400/1750 r.p.m. • Maximum pressure: 8 bar • Restart pressure: 5 bar • Voltage/frequency options: 110-240V, 50/60Hz
--	---

Which model fits the installation?

If the priority is...	Consider	Reason
Standard compressor installation	GA-82	Base configuration with no cabinet or integrated dryer.
Lower installation-point noise	GA-82X	Adds the silent cabinet around the compressor platform.
Integrated air-drying stage	GA-82Y	Adds an adsorption dryer to the compressor platform.

Technical Comparison

Core data below are compiled from current Greeley manufacturer listings and established distributor listings. Values marked "approx." have conflicting published figures.

Specification	GA-82	GA-82X	GA-82Y
Configuration	Standard	Silent cabinet	Adsorption dryer
Power	1600W (2 x 800W)	1600W (2 x 800W)	1600W (2 x 800W)
Air flow	310 L/min at 0 bar	310 L/min at 0 bar	310 L/min at 0 bar
Tank capacity	60L	60L	60L
Max pressure	8 bar (116 psi)	8 bar (115-116 psi)	8 bar (116 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)	52 dB	Approx. 42-43 dB*	52 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.

** 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, and 3 mm tank wall. Verify these secondary values against the current nameplate/manual before technical procurement.

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-82Y, service the dryer components according to the current dryer instructions.

Pre-order checklist

- Required model: GA-82, GA-82X, or GA-82Y.
- 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.