



SUPER-SILENT COMPRESSORS

QUIET FLOW T-SERIES

T12 - T18 - T37E - T37S - T37SA





QUIET FLOW T-SERIES

SUPER-SILENT COMPRESSORS

The innovative approach to the hermetic compressors developed by **AIR-PRO by Mg Victory** has opened new frontiers in the silent compressor market, introducing some indeed **revolutionary and cutting-edge technical solutions**.

Thanks to our know-how and **patented technology**, we have managed to adapt the compressors, originally designed for the compression of technical gases, for use in the compressed air.

This has resulted in significant improvements, first of all a **drastic reduction in oil consumption**.

PRODUCTION RANGE

AIR-PRO super-silent pumps:



T-Series pumps represent a new generation of hermetic compressors which are well known for their level of **totally silent operations**, ranging **from 38 to 40 dBA**.

These compressors have been designed with an **innovative external air intake system**, which is the exciting result of a close collaboration with our partner and supplier of pumping groups.

This new solution results in a number of significant benefits, first of all a **much reduced oil consumption**, but also **less pollution, less bad smell of burnt oil and less need for maintenance**.

APPLICATIONS OF AIR-PRO 'QUIET FLOW' SILENT COMPRESSORS:

AIR PRO 'Quiet Flow' super-silent compressors, with sound levels from **just 38-40 dBA** and almost no vibration when running, can be located in any work area without causing any noise intrusion, they are therefore **ideal to be used in private homes as well as for those laboratory, medical, artisanal and industrial applications** where a silent compressed air operation is a must.



With **open top covers** made in steel or in aluminum, our pumps allow **easy access to the group internal elements**.

The **T37-S** series with steel head and **T37-SA** with aluminum ribbed head (model under construction) feature our **PATENTED AIR-PRO suction system**, unique in its field.

It is well known that these hermetic pumps were originally designed to be used for the compression of technical gases and not to for production of compressed air. This leads to an elevate consumption of oil, since the air is sucked-in directly in the crankcase which contains both the group pumping element and the lubricating oil.

Once the compressor has started, the oil starts becoming very hot, it is nebulized and aspirated through the air intake system of the group pumping. With the air intake system inside the pumping structure (which is the standard solution in use on all the existing silent lubricated compressors), the oil is mixed with the compressed air and ends up in the storage tank and in the air pipelines of the customer.

To solve this problem, AIR-PRO has developed for its compressors **some important technical improvements** that drastically **reduce oil consumption and minimize the dispersion of oil in**

the environment.

These technical improvements are duly protected by a patent on all the T37-S and T37-SA compressors.

Also the lubricant oil used for the pumping groups of the T SERIES "QUIET FLOW" is **highly innovative. It is fully biodegradable, synthetic based, non-toxic and made for high performances.**

ON REQUEST, IT CAN ALSO BE SUPPLIED AS LUBRICANT OIL MADE FOR FOOD USE.

SOME COMMENTS ON THE OIL TESTS CARRIED-OUT ON ALL MODELS OF THE T-SERIES:

AIR-PRO has performed rigorous tests to evaluate the oil consumption of its compressors. We have conducted comparative tests at our facility, comparing compressors available on the market with those of our T-SERIES range. Results are indeed impressive!

On average, oil consumption in silent lubricated compressors currently available on the market varies **between 1.5 and 1.7 grams per hour**, operating at a maximum pressure of 8 bar and with service in S3 mode.

Thanks to our patented external suction system, implemented in all T37-S and T37-SA models, oil consumption is drastically **reduced to just 0.4 grams per hour**. For all other T-series models, consumption is as low as 0.8 grams per hour, always operating at a maximum pressure of 8 bar and with service in S3 mode.

SUPER-SILENT 'QUIET FLOW' UNITS

Our T-Series silent pumps can be installed on RECEIVERS with different capacities.

THEIR MAIN COMMON FEATURE OF LOW OIL CONSUMPTION IS COMBINED WITH FEW OTHERS ADDITIONAL SIGNIFICANT BENEFITS:

- ▶ It is reduced the dispersion of atomized oil into the environment, thus contributing to less environmental contamination.
- ▶ With the same amount of lubricating oil introduced into the compressor, it will be possible to work a greater number of operating hours without having to constantly monitor and top-up the level of oil consumed.
- ▶ The compressed air will result less contaminated by oil mist, ensuring not only a cleaner environment but also to reduce the annoying bad smell of burnt oil.
- ▶ Moreover, our patented system is available on compressors of T37-SA series also with the optional addition of a small additional fan placed on top of the pump, this option will allow to operate the compressor in continuous duty mode S1, at the recommended ambient temperatures between 22°C and 25°C and a maximum pressure of 8 bars.

The advantages of using the hermetic compressors, specifically designed by **AIR-PRO** for the production of compressed air, includes clearly the **low noise (38-40 dBA)** during operation and compression, besides the one of a very low oil consumption.

These characteristics make them ideal for a wide range of new applications. The pumping units used by **AIR-PRO** have been on the market for years and are made with a tested mechanical system that guarantees reliable operations for thousands of hours.

These pumping units are designed with a forced lubrication system, known for their robustness and reliability, which ensure high efficiency for the entire operating life.

On top of all these important and well-known positive characteristics of the hermetic pumps used by **AIR-PRO**, we must add our unique - and **PATENTED** - external suction system, which maintains low temperatures in the suction chamber and guarantees a low oil consumption over time, helping to reduce maintenance needs and operational costs.

In conclusion, the silent compressors of the T-SERIES manufactured by **AIR-PRO** represent a real innovation in a market where very often the offered compressors are simply copied from the hermetic ones which are designed for technical gases and not at all specifically designed for compressed air.





BENEFITS FOR CUSTOMERS

In addition to grant a compressed air with much less oil contamination, the silent compressors of the **AIR-PRO** range offers numerous other advantages

EASY INSTALLATION

The compact structure of **AIR-PRO** units allows for an easy and quick installation in any space or configuration desired, with installation times and costs reduced to a minimum.

RELIABILITY AND ROBUSTNESS

Our units are manufactured according to all CE standards and have proven their reliability on the market over the years, guaranteeing a long life and reliable operation.

AIR-PRO QUIET FLOW T-SERIES compressors, with the their patented system, ensure production of a clean air, free of oil mist and less contaminated by bad smell of burnt oil.

SIMPLIFIED MAINTENANCE

With easy access to the pumping unit (exclusively for the **T37-S** and **T37-SA** series), you can perform any maintenance operations and check-ups by simply opening the top cover.

EASY TO USE

The **AIR-PRO** compressors are intuitive to use, offering a very low levels of noise and vibrations.

TECHNOLOGICAL INNOVATIONS:

- Low temperature of the compressed air;
- **PATENTED** suction system;
- Sturdy and long-lasting structure;
- Possibility to operate the T37-SA series in S1 continuous operation mode;
- Low noise for a comfortable working environment

TECHNICAL DATA OF T-SERIES PUMPS

POMPANTE	T-12	T-18	T-37/E	T-37/S	T-37/SA
Voltage/Hz	220V - 50Hz	220V - 50Hz	220V - 50Hz	220V - 50Hz	220V - 50Hz
	240V - 50Hz	240V - 50Hz	240V - 50Hz	240V - 50Hz	240V - 50Hz
Power	0,22 Kw (0.3 hp)	0,25 Kw (0.35 hp)	0,35 Kw (0.5 hp)	0,35 Kw (0.5 hp)	0,35 Kw (0.5 hp)
Maximum Pressure	8 bar	8 bar	8 bar	8 bar	8 bar
Noise Level	38 dB	38 dB	40 dB	40 dB	40 dB
Air Intake	22 L/min	24 L/min	50 L/min	50 L/min	50 L/min
Air Delivered a 5 bar	14 L/min	18 L/min	37 L/min	37 L/min	37 L/min
Pump Cover	steel-closed	steel-closed	steel-closed	steel-open	aluminum ribbed open
Weight	10,5 Kg	11 Kg	16 Kg	16 Kg	17 Kg
Sizes mm A x B x C	193 x 252 x 173	193 x 252 x 173	332 x 197 x 212	332 x 197 x 212	332 x 197 x 212



CUSTOMIZED OR TAYLOR-MADE

AIR-PRO is available also to produce its range of **SUPER-SILENT COMPRESSORS** as **OEM**, in **CUSTOMIZED** or **TAYLOR-MADE** executions, according the needs and the special requirements of the customers.

Some examples:

- silent compressors for the watchmaking sector, with maximum pressures up to 15 bar
- silent compressors for dentists, veterinarians, scientific laboratories, equipped with cooling fans and with internally epoxy-coated receivers



AIR-PRO is dedicated to offering superior **quality** **products**, manufactured according to **extraordinary** **standards** that exceed our customers' expectations.



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