



G. Samaras S.A.
MEDICAL GAS SYSTEMS

COMPLETE MEDICAL GAS SUPPLY SYSTEMS



G.SAMARAS S.A.
medical gas systems



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**MORE THAN
2500 PROJECTS
ALL OVER
THE WORLD**

A whole world of technical excellence

since
1968

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ABOUT OUR COMPANY

G. SAMARAS S.A. is an international manufacturing company located in Thessaloniki, Greece. Having been active in the medical gas field since 1968, the company has a track record of continuous evolution and development. G. SAMARAS S.A. has become the leader in the Greek medical gas supply systems market, in which it holds more than 85% of the share. From the very beginning, G. SAMARAS S.A. recognized the importance of international growth. Thus, the company has managed to achieve a broad exports activity and network and, consequently, an extensive worldwide reference list. Having professionalism, reliability, solvency and flexibility as its key principles and guidelines, the company has gained not only valuable experience, but also strong domestic and international recognition and

reputation. Its strong know – how of medical gas supply systems and the durability of its products, has led the company to a strong market position. G. SAMARAS S.A. holds a very wide service and product portfolio, which is characterized by completeness, quality and a high degree of customization on everything related to medical gas supply systems. The company's facilities occupy a building of 4000 m² in the Industrial Area of Thermi, Thessaloniki (Northern Greece). The company's skilled personnel consists of electrical and mechanical engineers, graduate and post-graduate economists, as well as licensed welders and electricians, who constitutes the driving force of the company.

WHY G. SAMARAS S.A.?

- More than 50 years of experience and expertise
- Extensive product portfolio
- High quality of services and products
- Know – how on everything related to medical gas supply systems
- Flexibility to every medical gas solution
- Well – trained and skilled personnel
- Competitive pricing
- Short delivery times
- Raw materials and spare parts availability
- Ease of use
- Remote control and monitoring
- Highly – responsive after sales service and customer – focused support
- Conformity with all standards
- CE marked products

OUR SERVICES

- Designing and Calculations
- Installations
- Testing, Commissioning and Certification
- Maintenance and After Sales Support
- Training
- GSM / GPRS Remote Monitoring Management

CE 0653



PRODUCT PORTFOLIO



MEDICAL GAS NETWORK

- Copper pipes
- Copper parts (elbows, tees, couplings)
- Brass parts (nipples, elbows, caps, unions, adapters)
- Clamps
- Railways
- Tapes
- Welding materials
- Shut off/electromagnetic/non-return/safety valves
- Antistatic tubes
- Special tools



CYLINDER STATIONS

Their purpose is to reduce the pressure of medical gases originating either from cylinders or vessels. Their operation could be pneumatic, electrical or manual, the available capacities of reducers are 50/75/160/170/180m³/h (440m³/h only for vessels) whereas the outlet pressure could be between 4 and 8bar. Optionally they may include integrated medical gas alarm panel.

- Manifolds—cylinder ramps
- Cylinder holders
- High pressure evacuation valves
- High pressure flexible tubes
- Pigtailed
- Cylinders
- Vessels



PATHOLOGY LABORATORY GAS SYSTEMS

According to Health Technical Memorandum (HTM 08-06), all laboratory gas systems should be discriminated from medical systems. For toxicity, flammability, corrosiveness and safety factors, those systems are being manufactured according to specific standards and from special materials.



MEDICAL VACUUM SYSTEMS

Our company manufactures medical vacuum systems according to each project's specifications.

- Vacuum pumps (oil-lubricated/oil-free) of nominal capacity 6–635m³/h
- Vessels (vertical/horizontal) of capacity 270–5.000lt
- Antibacterial filters 48–900m³/h
- Electrical control panels



MEDICAL AIR COMPRESSOR SYSTEMS

Our company manufactures medical air compressor systems according to each project's specifications

- Compressors (screw/scroll/piston), oil-lubricated or oil-free of nominal capacity 4–2500m³/h
- Vessels (vertical/horizontal) of capacity 50–5.000lt
- Filters/sterile filters
- Condensate separators/aftercoolers
- Dryers (cooling/adsorption/membrane)
- Condensate drains
- Water/oil separators
- Electrical control panels

PRODUCT PORTFOLIO



OXYGEN–NITROGEN GENERATORS

Pressure Swing Adsorption (PSA) is a low power consuming solution, efficient and reliable for onsite production of high purity medical oxygen. It uses the basic principle of passing air over adsorbent material which bound with nitrogen to leave rich stream of oxygen. Our company provides various solutions according to the size and needs of each hospital.



ANAESTHETIC GAS SCAVENGING SYSTEMS

The suction and disposal to the environment of the redundant gases from the anesthetic equipment inside the operating theatres but also from the emitted anesthetic gases from patients in the stage of recovery, is being applied by using an automatic anesthetic gas scavenging disposal system (AGSS), through the AGSS outlets which are installed in various departments. Available solutions:

- Central systems of capacity 40–330m³/h
- Autonomous scavenging outlets
- Venturi apparatus



MEDICAL GAS TERMINAL UNITS / OUTLETS

Outlets are installed at the final delivery points in a medical gas pipeline system. They are used by personnel to supply the various gases using special probes. They are available in accordance with the following norms:

- ENV 737–6
- AFNOR NF S 90–116
- DIN 13260–2
- BS 5682
- SS 875 24 30
- ISO 9170–2
- SANS 1409:2008
- UNI
- NIST EN 739



SECOND STAGE CONTROL AND REDUCER PANELS / AREA VALVE SERVICE UNITS

Installed in wards in order to ensure normal pressure of the medical gases and provide the ability to shut off, check and maintain the local medical gas network. Provided for 1–6 gases with or without medical gas alarm panel.



MEDICAL GAS ALARM SYSTEMS

The monitoring and alarm systems are used to provide all the important information to the control room. They indicate the pressure level of each gas (Low, Normal, High) whereas they can supply with information about a single medical station. Moreover, they are able to send useful data to a remote user.

PRODUCT PORTFOLIO



BED HEAD UNITS

Their aim is to provide all essential services (medical gases, electrical supply, lighting, nurse call, data, etc.) to the patient / nurse / doctor.

G. Samaras SA has a broad range of models in horizontal / vertical / round / ceiling suspended configuration able to cover all needs of each single department.



CEILING PENDANT ARMS

The ceiling pendants are being placed on the ceiling of intensive care units and operating theaters for grouping and providing all necessary electrical, data and medical gases services to the medical staff. They are available in various configurations and according to each project's needs.

- Without arm
- With one arm
- With two arms
- With electrical movement (one/two arms)
- With electrical–telescopic movement



OPT CONTROL PANELS

OPT Control Panel, is the central device gathering all necessary control signals, alarms and information required in an Operating Theater.



NURSE CALL SYSTEMS

The nurse call system is installed in a nursing unit. It helps patients/relatives/nurses/doctors to call a nurse in case of an emergency or any other need of a patient. Typically they are consisted of:

- Central station
- Handsets
- Room stations
- WC pull cords
- Corridor lights



SECONDARY MEDICAL EQUIPMENT

- Hospital clocks
- Flowmeters
- Vacuum regulators
- Suction devices
- Carts
- IV stands
- Anaesthesia machines
- Pneumatic tube systems
- Emergency lighting–Fire detection–Gas detection systems
- OPT tables
- Hospital beds/cabinets
- OPT – Examination lights



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