SENAMED
Teknik ve Tıbbi Sistemler San. ve Tic. A.Ş.



Emergency Medical Gas Station

Medical Gas Plants

Emergency Medical Gas Station is a departmental backup medical gas solution designed to ensure uninterrupted gas availability during partial or complete failures of the central medical gas supply system.

Integrating Oxygen (O_2), Medical Air (MA4) and Vacuum (VAC) sources within a single cabinet, the system provides temporary and reliable support for intensive care units, operating rooms, emergency departments and other critical hospital areas.

By maintaining essential medical gas services until the central system is restored, it enhances patient safety, operational continuity and healthcare resilience.



Emergency Gas Station

Oxygen, Medical Air and Vacuum services are integrated within a single cabinet, providing a complete emergency medical gas solution.

Each gas source is supported by a dual-cylinder configuration for reliable backup operation.

Designed to maintain gas flow to critical hospital areas during central supply interruptions.

Automatically activates in response to pressure drops in the central medical gas supply system.

Critical Area Protection
Supports vital hospital wards

Pressure-Activated
Activated by pressure drops

Departmental Independence
Localized emergency gas support

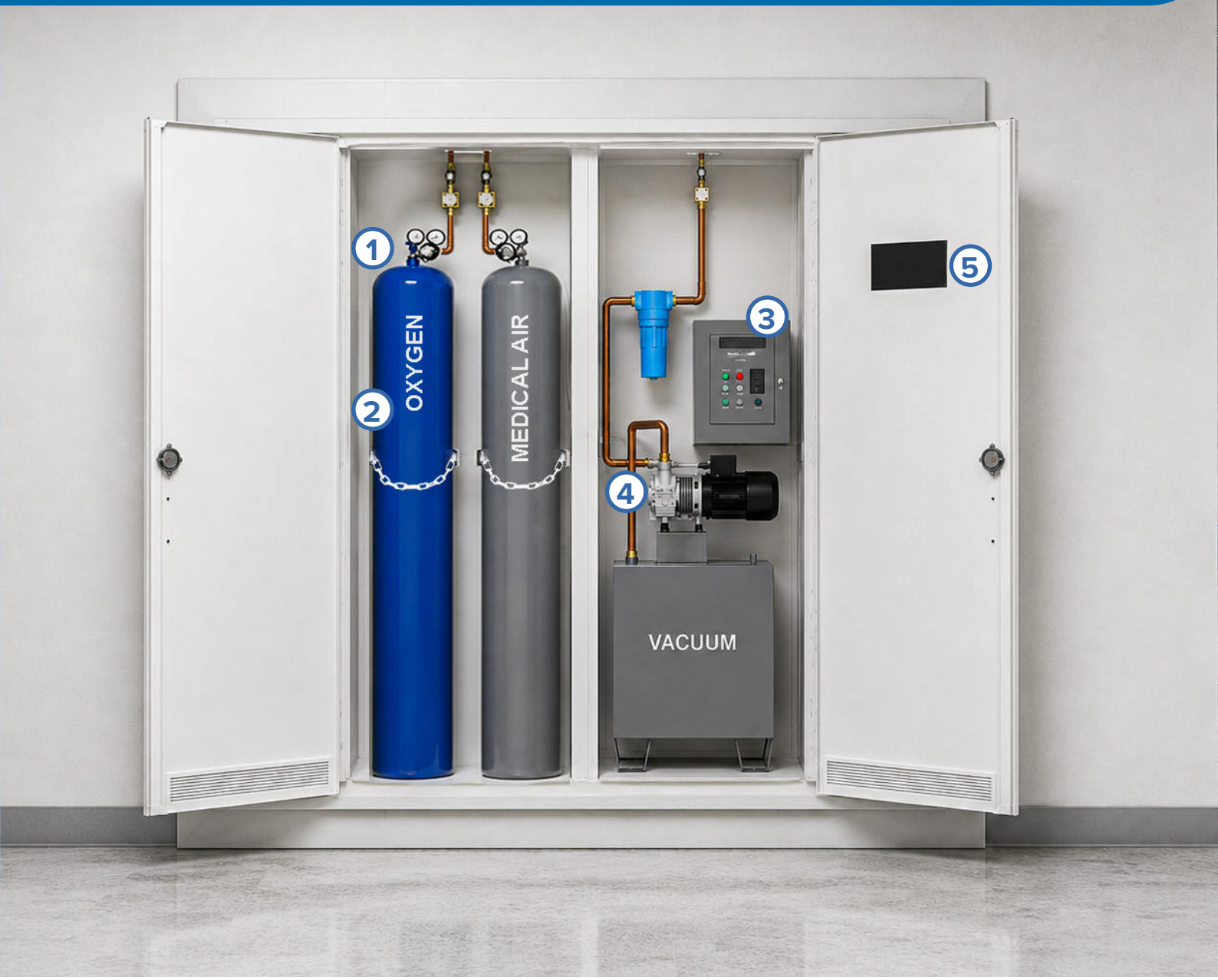
Integrated Monitoring
Real-time status and updates

Ready-to-Use Design
Pre-configured, ready to operate

System Compatibility
Fits existing infrastructure

Internal Configuration

- Designed for critical care areas, Emergency Medical Gas Stations provide localized emergency gas and and vacuum support wherever operational continuity is required.
- The system is available in surface-mounted or flush-mounted configurations and can be customized according to project-specific capacity requirements.



1 · High-Pressure Regulator

Provides two-stage pressure reduction, maintains stable line pressure during operation.

2 · Gas Sources

Provides emergency backup medical gas supply. Configurable according to project requirements

3 · Electrical Control Panel

Automatically starts and stops the vacuum pump based on tank vacuum level.

4 · Vacuum System

Comprises a vacuum pump, reservoir tank and filtration system. The integrated vacuum gauge monitors vacuum level, while the filter protects the system from contaminants.
Pump capacity and tank volume can be tailored to project-specific requirements.

5 · Alarm System (Optional)

Provides audio-visual alerts for system status and fault conditions.

General Features

Supply Voltage	220 V, 50 Hz
Operating Temperature	(+10) – (+45) °C
Relative Humidity	10–95%
Medical Gases	Oxygen (O_2) – Medical Air (MA4) – Vacuum
Activation	Manual / Pressure-Activated Operation
Alarm System	Integrated Audio-Visual Alarm (Optional)

Mechanical Features

Dimensions (W×D×H)	W × D × H mm
Cabinet Material	Electrostatic Powder-Coated Mild Steel
Mounting Options	Surface Mounted / Flush Mounted
Access	Lockable Front Door
Installation	Floor-Standing Cabinet

Technical Features

Pressurized Gas Supply	Cylinder-Based Gas Source
Cylinder Configuration	Project-Specific Cylinder Arrangements
Cylinder Capacity	50 L
Vacuum Generation	Integrated Vacuum Pump
Vacuum Capacity	21–300 m^3/h *(project-specific)*
Vacuum Reservoir	Integrated Vacuum Tank
Vacuum Tank Capacity	150–2000 L
Pressure Regulation	Two-Stage Pressure Regulation
Outlet Pressure	Project-Specific Outlet Pressure Options
Gas Pressure Indication	Manometer
Vacuum Indication	Vacuummeter

Standards

Quality	EN ISO 9001:2015 — EN ISO 13485:2016
Technical and Safety	EN ISO 7396-1 — EN ISO 7396-2 — EN ISO 9170-1 EN ISO 11197 — EN ISO 15001 — EN 837-1
Electrical Safety	EN 60601-1-2
Labeling	EN ISO 15223-1 — EN 1041
Risk Management	EN ISO 14971

Technical specifications are subject to change without prior notice. Images are for illustrative purposes only and may vary by model.



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