

# Reliability & Innovation in a Single Touch

## Silbermann's Advanced Medical Gas Manifold System



**MAZOR Series**



Silbermann MAZOR series changeover unit integrates 70 years of robust & well-trusted engineering in the medical gas pipeline systems field with state-of-the-art software & hardware development.

The Mazor series complies with the NFPA99, ISO 7396, G-O1 & HTM 02-01 where applicable.

Overview

## MAZOR Manifold Series

### MAZOR XT -3 Sources



Used as a reserve backup system in medical facilities.

### MAZOR AU -2 Sources



Used as a supply unit. This fully pneumatic system provides the medical facility with a reliable & continuous medical gas supply.

### MAZOR HTM02-01



The "Main-Source" are two banks and the Backup is two signal cylinders. This configuration is unique to the British medical gas requirements as defined by

### MAZOR Cryogenic



Gas is supplied from two banks of cryogenic cylinders to the medical facility

## Summary

# Highlights

- Innovative design displaying the entire manifold system including all medical gas sources, backups, gas pressure gauges (Including inlet gas pressure of the main supplying source), and an indication from which source the gas is supplied.
- Developed & designed to meet the international standards: EN ISO 7396-1, NFPA99, HTM02-01, or G-01 (per request).
- Gas expiration date alert- An alert for the medical gas cylinder period expiration date.
- Leak detection- Identifying and displaying leaks in backup cylinders (Left & Right banks).
- Multilanguage\*- Main screen and all back-office screens text available in: English, Chinese, Spanish, Russian, Arabic and Hebrew.

\* Other languages available by customer's request.

- Commissioning- Simply inspect gas pressure visually, by a special gas pressure mark.
- Flow and consumption- Measures and display the medical gas flow and consumption.

## Integration

# Connectivity

- All info sent to the XANADU alarm panel is encrypted & secured.
- All alarms information including colors, text and other settings is read & displayed on the XANADU alarm panel exactly as defined in the MAZOR changeover unit.
- Info can be sent via Ethernet, WIFI or RS485 to any device.





Gas expiration date alert



Innovative design



Flow & Consumption



Multilanguage



Simple Commissioning

Gas pressure mark



Leak detection

 A screenshot of the 'History log' feature, showing a table of system events.
 

Time	Event	Value	Unit
14.08.21 14:12	Output Pressure	3.9	Bar
14.08.21 14:12	Main Source	3.9	Bar
14.08.21 14:12	Left Bank	190	Bar
14.08.21 14:12	Right Bank	125	Bar
14.08.21 14:12	Flow	12.24	m³/h
14.08.21 14:12	Consumption	282	m³

History log

## Maintenance & Log

Periodic maintenance is essential when using medical gas life-supporting equipment.

The MAZOR series provides the maintenance personnel with designated features designed to take the burden of following and keeping in mind this necessity:

- Periodic maintenance- Displays on the screen the date of the next required periodic maintenance and alerts the technician if the date passed.
- History log- Changes in, alerts, and periodic maintenance are registered and displayed on a log screen.
- Medical gas expiration date- Monitoring and providing the technician with information regarding the expiration date of the medical gas at each cylinder.



### Technical Data

## Specification

- Fully automatic medical gas manifold designed for continuous supply & smooth automatic bank switchover.
- Available for Oxygen, Air, N<sub>2</sub>O, N<sub>2</sub>, CO<sub>2</sub> and other gas mixtures.
- Cabinet material: powder coated, Galvanized steel.
- Flow Capacity:
  - Oxygen/ Medical Air (4 bar)\*- 90/ 120/ 150 m<sup>3</sup>h.
  - N<sub>2</sub>/ Instrument Air (7 bar)\*- 170m<sup>3</sup>h.

\* Other flow capacities are available according to customer request.

- No. of cylinders and connection type in each bank according to customer's request.

Security

## Encrypted & Secured Information

When dealing with life support equipment you need the best and most updated cyber technology. At Silbermann, we are highly aware of this matter.

The MAZOR series fully automatic manifold system incorporates top software security technology.

All communication from the MAZOR series is encrypted keeping the information secured against any malicious threats.



### International Standards

NFPA99, EN ISO7396-1, G-01, HTM 02-01.

### Silbermann's Quality Management System

ISO 13485-2016 & ISO 9001-2015



CE 0123



**SILBERMANN Technologies Ltd.**

Address: #5 Harakevet st. POB 4605,  
Petah-Tikva, 4900715, ISRAEL

Tel: +972-3-9309186 | Fax: +972-3-9315721

E-Mail: [info@silbermnn.com](mailto:info@silbermnn.com)

[www.silbermnn.com](http://www.silbermnn.com)

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