Product Compliance Declaration

We hereby declare that the MACY-PAN series products the Model 5000 Medical Hyperbaric Chamber are designed and manufactured in full compliance with the safety requirements of the U.S. NFPA 99 (Standard for Health Care Facilities). The detailed compliance specifications are as follows:

1. Fire Safety Requirements

(a) Flame-Retardant Materials

All internal materials of the chamber are constructed using flame-retardant materials that meet NFPA 99 standards, ensuring suppression of fire spread in risk scenarios.

(b) Static Electricity Control

The chamber is equipped with a water-cooled air conditioning system, which maintains optimal humidity levels to eliminate static electricity buildup, further reducing ignition hazards.

(c) Insulation Protection

The chamber includes an insulated and grounded mattress, providing dual insulation protection to ensure patient safety and electrical isolation.

2. Pressurization Medium & Pressure Control

The pressurization medium consists of an air-oxygen mixture (not pure oxygen), with the following flow rates:

Airflow: 200 L/min

Oxygen flow: 20 L/min

This mixture ratio significantly reduces the risk of combustion, complying with NFPA 99 restrictions on flammable gases.

Triple Pressure Regulation System:

The chamber is equipped with three automatic pressure relief valves, which actively vent excess gas to maintain stable internal pressure once the set threshold is reached.

3. Emergency Pressure Release System

The chamber includes two manual hydraulic valves and an emergency pressure relief valve for critical situations:

Rapid decompression within 60 seconds, meeting NFPA 99 evacuation time requirements.

Redundant design ensures operational reliability.

We certify that all products undergo rigorous testing and continuous quality assurance. For further technical documentation or certification support, please do not hesitate to contact us.

Sincerely,

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[2025.4.20]