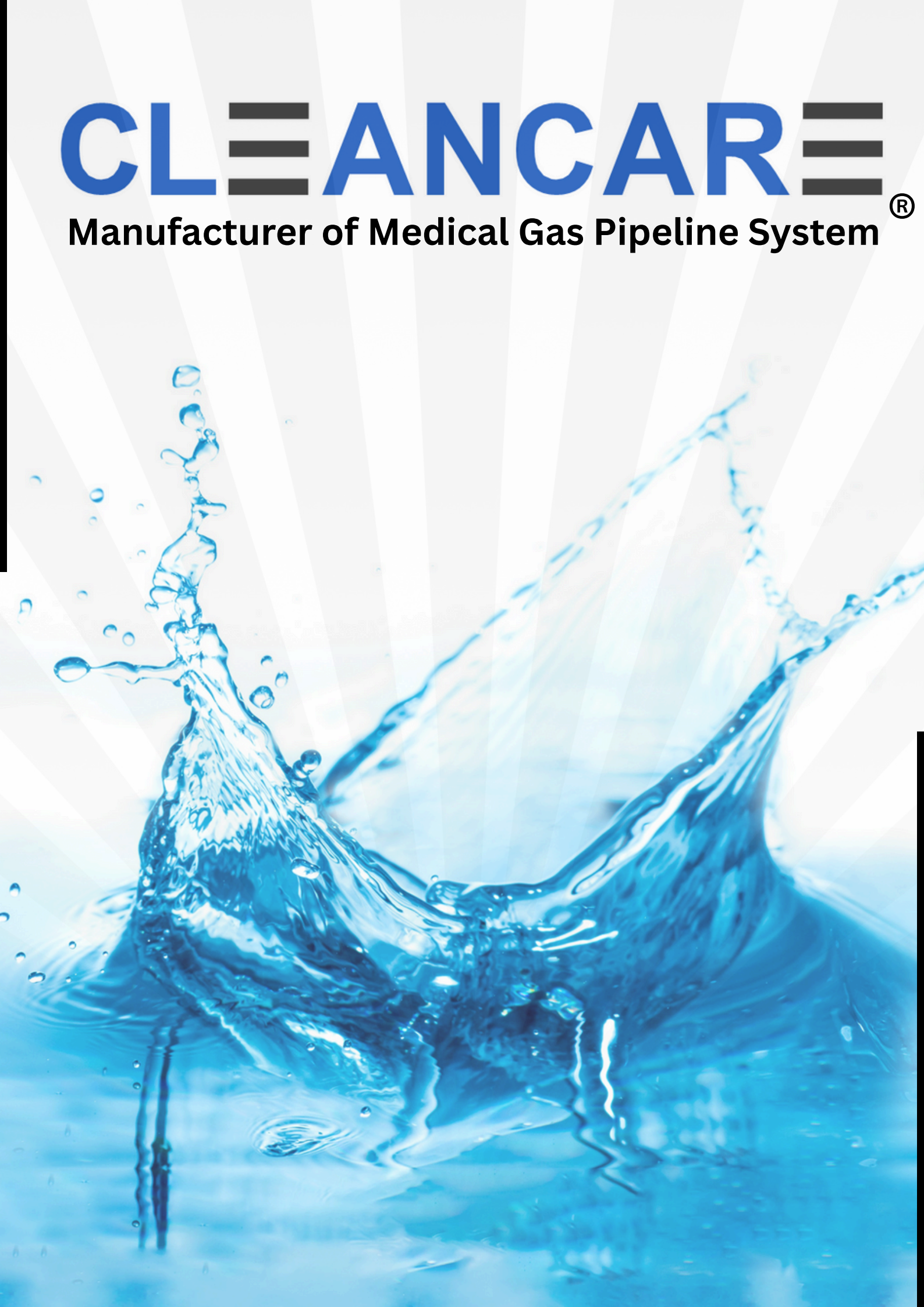
CLEANCARE®

Manufacturer of Medical Gas Pipeline System



ABOUT US

Cleancare today has been reckoned as the pioneering manufacturer, trader, and wholesaler of best-quality products. Our global reputeis achieved under the statutory responsibility to deal in an extensive range of many anticipated products, industrial products, including household items and components.

We procure best-suited inventory of raw materials and utilize cutting edge manufacturing technology to develop remarkable quality products that are globally demanded its practicable costs, durable performance, elegant design, appealing looks and industry-proven fabrication.

We understand that every customer comes with a unique set of needs, besides, we invest substantial resources in conducting worldwide market research to anticipate the client needs. Our line of products is carefully developed and rigorously inspected by using latest techniques to assure our patrons with its worth. Further, we work under deep scrutiny of quality controllers who make sure to conduct timely audits and verify every product range.

Cleancare India specializes in designing, manufacturing, and installing Medical Gas Pipeline System Equipements

Manufacturing of Medical Gas Pipeline System

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MGPS

MEDICAL GAS PIPELINE SYSTEM

The Medical Gas Pipeline System (MGPS) is a critical infrastructure in hospitals designed to provide a safe, efficient, and continuous supply of medical gases such as oxygen, medical air, nitrous oxide, carbon dioxide, and vacuum to various clinical areas including ICUs, operation theatres, and patient wards. The system comprises centralized gas sources (like liquid oxygen tanks, compressors, and vacuum pumps), copper pipelines, zone valves, terminal outlets, alarm panels, and monitoring systems, all conforming to international standards such as HTM 02-01 or ISO 7396-1. MGPS ensures that life-saving gases are delivered at precise pressures and flow rates while maintaining high levels of hygiene, safety, and reliability throughout the hospital environment.

1. Gas Supply System (Source Equipment)

- Liquid Oxygen Tank (LOX) or Oxygen Manifold
- Medical Air Compressor Set with Dryer
- Vacuum Pump Set
- Nitrous Oxide Cylinder Manifold
- Carbon Dioxide Cylinder Manifold
- Nitrogen Manifold (for surgical tools)
- AGSS System (Anaesthetic Gas Scavenging System)

2. Copper Piping & Fittings

- Medical Grade Copper Pipes (BS EN 13348 / ASTM B819)
- Elbows, Tees, Couplings (Copper)
- Pipe Clamps and Supports (with insulation)
- Silver Brazing Rods (45% silver minimum)
- Flux (suitable for medical use)

3. Valves & Boxes

- Zone Valve Boxes (with Pressure Gauges)
- Line Valves (Ball/Butterfly type)
- Non-return Valves / Check Valves
- AVSU (Area Valve Service Unit)

4. Terminal Units (Gas Outlets)

- Gas Outlet Points (Oxygen, Air, N_2O, Vacuum, CO_2, AGSS)
- Bed Head Panels / Ceiling Pendants / Wall-Mounted Outlets
- Type (as per DIN / BS / AGA standard)

5. Alarm Systems & Electricals

- Master Alarm Panel (MAP)
- Area Alarm Panel (AAP)
- Pressure Sensors & Transducers
- Control Panel for Plant Room
- UPS (Uninterrupted Power Supply)

6. Accessories

- Flow Meters (O_2, Air)
- Vacuum Regulators & Suction Jars
- Humidifiers
- Hose Assemblies with Connectors

1.Liquid Oxygen Tank

LIQUID OXYGEN (LOX) TANKS ARE INSTALLED IN THE MEDICAL GAS PLANT ROOM OR OXYGEN YARD OF A HOSPITAL. THEY SERVE AS THE PRIMARY OXYGEN SOURCE FOR THE MEDICAL GAS PIPELINE SYSTEM (MGPS), WHICH DISTRIBUTES OXYGEN THROUGHOUT THE HOSPITAL TO:

- ICUS (INTENSIVE CARE UNITS)
- OPERATION THEATRES (OTS)
- EMERGENCY ROOMS
- INPATIENT WARDS
- NICUS & PICUS (NEONATAL & PEDIATRIC ICUS)
- RECOVERY AND POST-OP AREAS
- HIGH DEPENDENCY UNITS (HDUS)

FEATURES OF LIQUID OXYGEN TANKS (FOR MEDICAL USE)

1. High Storage Capacity

- Stores oxygen in liquid form at very low temperatures.
- Compact and efficient compared to storing in gas cylinders

2. Double-Walled Vacuum Insulated Design

- Inner vessel (stainless steel) holds the liquid oxygen
- Outer shell with vacuum insulation reduces heat transfer and prevents boil-off

3. Automatic Pressure Regulation

- Built-in pressure build-up and pressure reducing valves to maintain delivery pressure.

4. Safety Systems

- Equipped with safety relief valves, burst discs, and pressure gauges
- Meets HTM 02-01 / ISO 20421 / PESO (India) safety standards

5. Level Indicators & Telemetry

- Digital or mechanical level gauge shows liquid level
- Optional telemetry system for remote monitoring and refilling alerts

6. Vaporizer Unit

- Ambient or heated vaporizer converts liquid oxygen into gaseous form for distribution in MGPS

7. Corrosion-Resistant & Hygienic Design

- Uses medical-grade stainless steel to maintain purity
- Internal surfaces are cleaned and degreased for oxygen service

8. Long-Term Supply

- A full LOX tank can supply oxygen to a large hospital for several days, depending on usage and capacity

9. Capacity Options

- Commonly available in sizes from 1,000 liters to 20,000 liters or more

10. Ease of Refill and Maintenance

- Designed for easy refilling by cryogenic tanker
- Minimal maintenance required compared to manifold systems

2.Fully Automatic Manifolds

A FULLY AUTOMATIC MANIFOLD IS A SPECIALIZED EQUIPMENT USED IN HOSPITALS TO ENSURE A CONTINUOUS AND UNINTERRUPTED SUPPLY OF MEDICAL GASES (LIKE OXYGEN, NITROUS OXIDE, CARBON DIOXIDE, ETC.) FROM GAS CYLINDERS TO THE HOSPITAL'S MEDICAL GAS PIPELINE SYSTEM (MGPS). IT AUTOMATICALLY SWITCHES BETWEEN TWO SETS OF GAS CYLINDERS (CALLED BANKS) WITHOUT ANY MANUAL INTERVENTION WHEN ONE SET BECOMES EMPTY.

1. Automatic Changeover

- Automatically switches gas supply from the empty cylinder bank to the standby bank without manual intervention.

2. Dual Cylinder Banks

- Supports two banks (left & right) of gas cylinders (typically 4 to 20 cylinders per bank).
- Ensures one bank is always in standby mode.

3. Pressure Regulation

- Equipped with dual-stage pressure regulators to maintain consistent outlet pressure (e.g. 4.2–5.0 bar for oxygen).

4. Microprocessor-Based Control Panel

- User-friendly digital display panel showing pressure, status, and alerts.
- Some systems come with touchscreen interface.

5. Visual & Audible Alarm System

- Alerts for bank empty, low pressure, changeover, and system fault.
- Can be connected to central alarm panel.

6. System Reset Function

- After refilling the empty bank, the system automatically resets and sets it as standby for the next cycle.

7. Non-Return Valves (NRVs)

- Prevents backflow of gas between cylinder banks for safety.

8. High-Pressure Pigtails & Headers

- Copper or stainless-steel pigtails with bullnose or pin-indexed connectors as per gas type.
- Strong manifold header supports high pressure.

9. Compact & Modular Design

- Wall-mounted or floor-standing models available.
- Easy to expand or reconfigure based on future needs.

10. Built-in Pressure Gauges

- High and low pressure gauges for each bank and outlet side.

12. Compliance & Certification

- Conforms to HTM 02-01, ISO 7396-1, NFPA 99, and PESO (India) regulations.
- CE-marked components for medical use.

3. Medical Air Compressor Set with Dryer

A MEDICAL AIR COMPRESSOR SET WITH DRYER IS AN ESSENTIAL PART OF THE MEDICAL GAS PIPELINE SYSTEM (MGPS) IN HOSPITALS. IT IS USED TO GENERATE AND SUPPLY CLEAN, DRY, AND OIL-FREE COMPRESSED AIR FOR MEDICAL USE.

FEATURES OF MEDICAL AIR COMPRESSOR SET WITH DRYER

1. **Oil-Free Compressors**
   - 100% oil-free piston or scroll compressors
   - Ensures medical air is safe for patient use and does not contain oil particles
2. **Multi-Head Compressor Units**
   - Multiple compressor heads work alternately or in parallel for redundancy
   - Automatically switch based on demand and failure detection
3. **Desiccant or Refrigerated Dryer**
   - Removes moisture/humidity from the compressed air
   - Maintains a low dew point to prevent condensation in pipelines
4. **Bacterial Filter**
   - Final stage filtration removes bacteria and particles
   - Ensures compliance with ISO 8573-1 & HTM 02-01 standards
5. **Air Receiver Tank**
   - Stores compressed air temporarily
   - Acts as a buffer to meet fluctuating demand
6. **Control Panel**
   - PLC or microprocessor-based display for monitoring pressure, temperature, and dryer status
   - Audio-visual alarms for high/low pressure, dryer failure, or maintenance alerts
7. **Automatic Drain System**
   - Removes accumulated water and condensate automatically from dryer and air tank
8. **Alarm Integration**
   - Can be integrated into the Master Alarm Panel in the hospital for central monitoring
9. **Silent Operation**
   - Enclosed design or acoustic insulation for low noise levels (suitable for indoor plant rooms)
10. **Compliance with Medical Standards**
    - Follows ISO 7396-1, HTM 02-01, NFPA 99, and CE marking for medical gas systems

4. Vacuum Pump Set

A VACUUM PUMP SET IN A HOSPITAL IS A CRITICAL PART OF THE MEDICAL SUCTION SYSTEM. IT GENERATES NEGATIVE PRESSURE (VACUUM) AND SUPPLIES IT THROUGH THE MEDICAL GAS PIPELINE SYSTEM (MGPS) TO AREAS WHERE SUCTION IS NEEDED, SUCH AS:

- OPERATION THEATRES (OTS)
- ICUS AND NICUS
- EMERGENCY AND RECOVERY ROOMS
- WARDS AND PATIENT ROOMS
- ENDOSCOPY, LABOR ROOMS, AND DENTAL CLINICS

THE VACUUM HELPS IN REMOVING BLOOD, SECRETIONS, OR FLUIDS DURING SURGERIES AND PATIENT CARE.

FEATURES OF A MEDICAL VACUUM PUMP SET

1. Oil-Sealed Rotary Vane or Dry Type Pumps

- Oil-lubricated rotary vane pumps are most commonly used.
- Dry-type pumps (oil-free) are also available for hygienic requirements.

2. Duplex / Triplex / Quadruplex Configurations

- Multiple pumps work in parallel or alternately to maintain continuous suction.
- Ensures 100% standby (N+1) operation for reliability.

3. Vacuum Receiver Tank

- Stores vacuum (negative pressure) temporarily.
- Reduces pump cycling and supports peak demand.

4. Bacterial Inlet Filter

- Removes pathogens and particles before air enters the vacuum system.
- Protects the vacuum pump and prevents contamination.

5. Control Panel with Auto Sequencing

- Microprocessor or PLC-based control panel.
- Automatically starts/stops pumps based on demand.
- Shows system status, alarms, and maintenance alerts.

6. Noise Reduction Housing

- Pumps are housed in acoustically insulated cabinets.
- Ensures quiet operation, suitable for hospitals.

7. Alarm Systems

- High/low pressure alarm.
- Pump failure or overload protection.
- Connectable to Area/Master Alarm Panels.

8. Compliance and Certification

- Conforms to HTM 02-01, ISO 7396-1, NFPA 99, CE Certified, and PESO guidelines.

5. AGSS (Anaesthetic Gas Scavenging System)

1.AGSS (ANAESTHETIC GAS SCAVENGING SYSTEM)
THE ANAESTHETIC GAS SCAVENGING SYSTEM (AGSS) IS A DEDICATED SYSTEM USED IN OPERATION THEATRES (OTS) TO SAFELY COLLECT AND REMOVE WASTE ANAESTHETIC GASES (LIKE NITROUS OXIDE, SEVOFLURANE, ISOFLURANE) THAT ESCAPE FROM THE PATIENT BREATHING CIRCUIT DURING SURGERY.
THESE WASTE GASES CAN BE HARMFUL TO OT STAFF IF INHALED REGULARLY, SO AGSS ENSURES A SAFE ENVIRONMENT BY COLLECTING, TRANSPORTING, AND DISCHARGING THESE GASES OUTSIDE THE BUILDING IN A CONTROLLED AND COMPLIANT MANNER.

FEATURES OF AGSS (ANAESTHETIC GAS SCAVENGING SYSTEM)

1. Safe Removal of Waste Gases

- Collects and removes waste anaesthetic gases (like nitrous oxide, halogenated agents) from the anesthesia breathing circuit.

2. Scavenging Interface Unit

- Regulates suction pressure to avoid affecting the patient's breathing.
- Includes pressure relief valves to maintain patient safety.

3. Active Extraction (Blower/Exhauster Unit)

- High-efficiency, oil-free centrifugal blower or vacuum pump to extract gases efficiently.
- Maintains consistent low suction (e.g., 30–50 L/min at low pressure).

4. AGSS Outlets (Sockets)

- Installed on pendants, walls, or columns in OTs.
- Color-coded (usually purple) and labeled for easy identification.

5. Low Noise Operation

- Designed to operate quietly to avoid disturbing surgical or ICU environments.

6. Pressure Regulation System

- Maintains back pressure below 0.5 kPa (5 cm H_2O) to ensure patient safety.
- Avoids too much suction that could impact patient ventilation.

7. Bacterial & Particulate Filtration

- Filters included to trap contaminants before discharging gases outside.

8. Alarm & Safety Features

- Visual and audible alarms for:
  - Fan/blower failure
  - High suction pressure
  - Blocked exhaust
- Emergency shutdown facility

9. Corrosion-Resistant Piping and Components

- Stainless steel or copper piping to handle corrosive anaesthetic gases.

10. Ventilation to Safe Area

- Gases are safely vented outside the building, away from air intakes or people.

11. Compliant with Medical Standards

- Conforms to:
  - HTM 02-01 (UK)
  - ISO 7396-2
  - NFPA 99 (USA)
  - CE & PESO (India)

12. Easy Maintenance Access

- Modular design for easy servicing and replacement of parts like filters, blowers, and valves.

6. Copper Pipes with Copper Fittings for MGPS Work

COPPER PIPING IS THE STANDARD AND MOST TRUSTED MATERIAL FOR TRANSPORTING MEDICAL GASES IN HOSPITALS DUE TO ITS STRENGTH, CORROSION RESISTANCE, CLEANLINESS, AND LONG LIFESPAN. IT FORMS THE BACKBONE OF THE MGPS, SUPPLYING CRITICAL GASES LIKE OXYGEN, NITROUS OXIDE, MEDICAL AIR, AND VACUUM TO VARIOUS HOSPITAL AREAS.

FEATURES OF COPPER PIPES

1. Continuous Gas Supply:

- Provides uninterrupted delivery of medical gases like oxygen, nitrous oxide, medical air, and vacuum for surgical and life-support procedures.

2. Centralized System:

- Gases are supplied from a central source (manifold or plant room) through a network of pipelines to the OT.

3. High-Quality Copper Pipelines:

- Medical-grade, non-corrosive copper pipes ensure purity and prevent contamination.

7. Medical Gas Outlets

MEDICAL GAS OUTLETS (ALSO CALLED TERMINAL UNITS) ARE THE FINAL CONNECTION POINTS IN THE MGPS WHERE HEALTHCARE PROFESSIONALS CONNECT EQUIPMENT LIKE VENTILATORS, ANESTHESIA MACHINES, OR SUCTION DEVICES. THESE OUTLETS DELIVER CRITICAL GASES SUCH AS OXYGEN, VACUUM, MEDICAL AIR, NITROUS OXIDE, ETC., DIRECTLY TO THE PATIENT CARE AREA.

FEATURES OF MEDICAL GAS OUTLETS (TERMINAL UNITS)

1. Gas-Specific & Non-Interchangeable

- Each outlet is uniquely keyed and designed to allow only the correct gas adapter to connect.

2. Color-Coded Identification

- Outlets are color-coded and labeled as per international standards (HTM 02-01 / ISO 32 / NFPA 99) for easy recognition.

3. Quick Connect/Disconnect Mechanism

- Enables fast, secure, and safe connection of flowmeters, ventilators, or suction devices.
- Allows emergency response without delay.

4. 100% Leak-Proof Performance

- All outlets are factory tested for leaks and performance under pressure to ensure patient safety.

5. Modular & Replaceable Cartridge Design

- Allows easy servicing and replacement without disturbing the entire pipeline or back-box.

6. High-Quality Materials

- Constructed using brass, stainless steel, and medical-grade polymers – corrosion-resistant and long-lasting.

7. Flush-Mounted or Surface-Mounted Options

- Can be integrated into bed head panels, pendants, columns, or wall boxes based on site layout.

8. Safe for All Critical Gases

- Suitable for Oxygen, Vacuum, Medical Air (4 & 7 bar), Nitrous Oxide, AGSS, CO_2, Entonox, etc.

9. Medical Gas Alarm System

A MEDICAL GAS ALARM SYSTEM IS AN ELECTRONIC MONITORING PANEL THAT DISPLAYS THE REAL-TIME STATUS (PRESSURE, AVAILABILITY, OR FAULTS) OF EACH MEDICAL GAS LINE. IT PROVIDES VISUAL AND AUDIBLE ALERTS TO HOSPITAL STAFF IN CASE OF:

- **HIGH/LOW PRESSURE**
- **GAS SUPPLY FAILURE**
- **POWER FAILURE**
- **SYSTEM MALFUNCTIONS**

FEATURES OF MEDICAL GAS ALARM SYSTEM

1. **Multi-Gas Monitoring**
   - Monitors multiple gases such as Oxygen, Nitrous Oxide, Medical Air (4 & 7 bar), Vacuum, AGSS, CO_2, etc.
2. **Digital Pressure Display**
   - Real-time pressure readings for each gas in bar, kPa, or psi
   - Easy-to-read LED/LCD screen
3. **Audio-Visual Alarms**
   - Flashing LEDs for low (yellow), normal (green), and high (red) pressure
   - Audible buzzer alerts during alarm conditions
   - Mute/reset button available
4. **Gas-Specific Indicators**
   - Color-coded and labeled as per HTM 02-01 / ISO 32 / NFPA 99 standards
   - Prevents misinterpretation and enables quick action
5. **Sensor-Based or Transducer-Based**
   - High-accuracy pressure sensors
   - Installed near manifold or zone valve boxes
6. **Three-Level Alarm System**
   - Area Alarm (OTs, ICUs)
   - Main Alarm (Plant Room/Manifold Room)
   - Repeater Alarm (Nurse Station)
7. **Battery Backup**
   - Built-in UPS or rechargeable battery backup for 2–4 hours in case of power failure
8. **Easy Maintenance & Modular Design**
   - Wall-mounted or flush-mounted
   - Modular PCBs/sensors for easy replacement or servicing
9. **Fail-Safe Design**
   - Alarm activates if sensor or communication fails

10. Flowmeter with Humidifier Bottle

A FLOWMETER WITH HUMIDIFIER IS USED TO CONTROL AND MEASURE THE FLOW OF MEDICAL OXYGEN WHILE ALSO HUMIDIFYING THE GAS BEFORE DELIVERY TO THE PATIENT. THIS HELPS PREVENT DRYNESS AND IRRITATION IN THE RESPIRATORY TRACT DURING OXYGEN THERAPY.

IT IS COMMONLY USED IN:

- PATIENT WARDS
- EMERGENCY ROOMS
- ICUS

FEATURES OF OXYGEN FLOWMETER WITH HUMIDIFIER BOTTLE

1. **Accurate Flow Control**
   - Provides precise oxygen flow rates (commonly 0–15 LPM), adjustable with a control knob.
2. **Borosilicate Glass Tube with Bobbin**
   - Clear, graduated tube with a floating ball (bobbin) for easy and accurate flow reading.
3. **Integrated Humidifier Bottle**
   - Polycarbonate bottle that adds moisture to dry oxygen, preventing irritation to the patient's airways.
4. **Bubbling Humidification System**
   - Oxygen passes through sterile/distilled water and exits as moisturized gas for patient comfort.
5. **Pressure Relief Valve**
   - Built-in safety valve in the humidifier bottle to release excess pressure (typically 2–3 psi).
6. **Wall Outlet Compatibility**
   - Connects directly to BS/DIN/Ohmeda/NIST-type medical gas outlets on bed head panels or walls.
7. **Color-Coded & Gas-Specific**
   - Green color and labeling for oxygen, preventing cross-connection errors.
8. **Durable Construction**
   - Made from anodized aluminum or chrome-plated brass, with high-strength plastic components.
9. **Anti-Backflow Design**
   - Prevents water from returning to the gas pipeline (backflow protection).
11. **Universal Outlet Connector**
   - ·Compatible with standard oxygen tubing.
12. **CE & ISO Certified**
   - Complies with international standards (ISO 15002, HTM 02-01, CE mark).

11. Ward Vacuum Unit

A WARD VACUUM UNIT IS A DEVICE USED IN HOSPITAL WARDS, ICUS, AND EMERGENCY ROOMS TO PROVIDE CONTROLLED MEDICAL SUCTION FOR REMOVING FLUIDS, SECRETIONS, OR GASES FROM A PATIENT'S AIRWAY OR SURGICAL SITE. IT CONNECTS TO THE VACUUM OUTLET ON THE BED HEAD PANEL OR WALL.

FEATURES OF WARD VACUUM UNIT

1. **Complete Suction Assembly**
   - Includes:
     - Vacuum regulator (gauge type or digital)
     - Collection jar (polycarbonate or glass)
     - Safety trap & bacteria filter
     - Wall mounting bracket or direct outlet connection
2. **Adjustable Suction Pressure**
   - Precise vacuum control knob allows suction adjustment based on patient need
   - Standard range: 0–760 mmHg (or 0–100 kPa)
3. **Vacuum Gauge Display**
   - Analog dial or digital display to monitor suction pressure in mmHg/kPa/bar
4. **Polycarbonate Collection Jar**
   - Durable, autoclavable jar (typically 600–1000 ml) for collecting fluids
   - Transparent for easy visibility of contents
5. **Overflow Safety Valve**
   - Prevents backflow of liquid into the pipeline
   - Auto shut-off float valve when jar is full
6. **Antibacterial Filter**
   - High-efficiency bacterial filter prevents contamination of the pipeline or vacuum pump
7. **Wall Mounting or Direct Plug-In**
   - Unit can be mounted via a bracket on the wall or connected directly to a vacuum outlet (BS/DIN/Ohmeda types)
8. **Gas-Specific Connection (Safety Lock)**
   - Connection keyed to vacuum outlet only, preventing wrong installation
9. **High Durability**
   - Made with medical-grade materials (brass, stainless steel, polycarbonate)
10. **CE & ISO Certified**

- Compliant with ISO 10079, HTM 02-01, and CE marked for medical use

12. Theatre Suction Trolley

A THEATRE SUCTION TROLLEY IS A MOBILE MEDICAL SUCTION SYSTEM USED DURING SURGERIES TO REMOVE BLOOD, SECRETIONS, OR BODILY FLUIDS FROM THE SURGICAL SITE. IT PROVIDES HIGH-CAPACITY, MOBILE SUCTION WHEN FIXED WALL-MOUNTED UNITS ARE NOT SUFFICIENT OR ACCESSIBLE.

FEATURES OF THEATRE SUCTION TROLLEY

1. Heavy-Duty Suction Pump

- Integrated oil-free or oil-lubricated motor pump
- High suction capacity: ≥25 LPM or more
- Maximum vacuum: -700 to -760 mmHg

2. Twin Collection Jars

- Comes with 2 x 2-litre or 4-litre autoclavable polycarbonate/glass jars
- Transparent jars with measurement markings
- Lid with overflow protection (float valve)

3. Vacuum Control & Indicator

- Pressure regulator knob to control suction strength
- Vacuum gauge (analog or digital) to monitor suction level

4. Mobile & Stable Design

- Mounted on stainless steel frame with 4 swivel caster wheels (2 with brakes)
- Easy to move between OTs, ICUs, and wards

5. Antibacterial Filter Unit

- In-line bacteria and hydrophobic filters prevent contamination of the suction motor

6. Overflow & Backflow Protection

- Automatic float valve shut-off system stops suction if jar is full
- Prevents damage to internal pump

7. Medical Grade Construction

- Frame and parts made from stainless steel or epoxy powder-coated steel
- Easy to clean and disinfect

8. CE & ISO Certified

- Conforms to ISO 10079-1, CE Mark, and HTM 02-01 guidelines

CLEANCARE

Manufacturer of Medical Gas Pipeline System

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