







Health Care & Humam Care

MEDICAL GAS CENTRAL PIPING SYSTEM



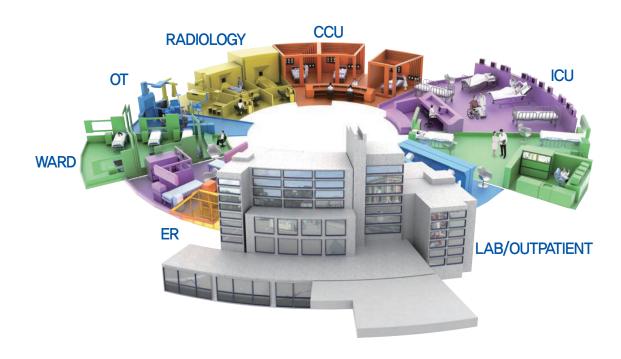






Medical Gas Central Piping System





Medical Gas

아산화질소(NITROUS-OXIDE) N2O

아산화질소는 질산암모늄을 약 220C로 가열 분해하여 얻는다. 용도는 전신마취제, 적외선 분석계, 반도체 등으로 이용된다. (액체 N2O 1Kg은 20C에서 약 540L의 부피를 차지한다.)



산소는 1774년에 발견됐으며 공기속에 부피로 약 21%를 차지하고 있고 무색, 무미, 무취의 가스로서 액체 상태에서는 옅은 푸른 색을 띄고 있으며 대기압 상태에서 ─183℃의 비등점을 갖는다.



질소는 공기중에 약 80%를 차지하고 무색, 무미, 무취의 불활성 가스로써 대기압 상태에서 -196℃의 비등점을 갖는다. 액체질소는 초저온 상태를 이용하여 작품의 급속냉동 보존 인공수정 등에 널리 이용된다.

혼합가스

고순도 가스를 필요한 용도로 혼합하여 합금, 용접, 전기, 식품, 의료, 해양개발, 실험실등의 각 산업분야에서 널리 사용 되는 가스 입니다.

고 순도가스

단일성분의 고순도 가스 혹은 특정불순물이 일정 이하로 보증되는 가스로써 분석기의 C-ARRIER 가스, ZERO가스 등으로 사용된다.







Medical Gas Supply Equipments

Liquid Oxygen Storage Tank

Feature

- Long-term hole time due to highly efficient multi-layer insulation systems
- Economizer system
- Built-in Isolation Valve
- Built-in Vaporizer
- The Vent module has a dual safety valve and manual vent valve



Medical Gas Manifold System

→ Type

Auto throw / free standing
 Maximum flow: 140 Nm³/hr

→ Construction

Cover: Steel 1,2t

Panel: Steel 2t printed P.P sheet coating

■ Frame: aluminum pipe 30×30



Medical Gas Manifold System

When service bank becomes empty, gases semi Automatically being to flow from reserve bank The pressure is analoug—indicated



Medical Gas Manifold System

Medical Gas Supply Equipments

Medical Air Compressor system

→ Type

■ Duplex, Oilless Air—compressor System

→ Consisting

- 2-Oilless Air-compressor, 1-Receiver Tank
- 1-After Cooler, 1-Main Filter, 1-Air Dryer
- 1-Pre Filter, 1-Line Filter
- 1—Coalescer Filter, 1—Adsorbent Filter, 1—Regulator
- 1-Control Panel

Option

■ Dual Filter Ration System





Medical Vacuum Pump system

→ Type

■ Duplex, Oil or water sealed vacuum pump

→ Consisting

- 2-vacuum pump
- 1—Receiver tank
- 1-Separator tank
- 1—Automatic water supply/drain system
- 1-Control panel
- 1-W/standard accessories









MASTER ALARM

→ Type

■ Wall mounted for concealed piping

→ Function

■ Medical gas abnormal pressure alarm

→ Construction

Box: Steel 1.6t baked painting
Panel: Steel 1.6t baked painting
Electric: 100V/200V/AC, 24V DC

Consisting of

- Push to test
- Power on lamp
- Alarm silencer
- Indication lamp
- Gauge



Master Alarm

AREA ALARM

Type

■ Wall mounted for concealed piping

→ Function

■ Medical gas abnormal pressure alarm

Construction

Box: Steel 1.6t baked painting
Panel: Steel 1.6t baked painting
Electric: 100V/200V/AC, 24V DC

Consisting of

■ Push to test

■ Power on lamp

Alarm silencer

Indication lamp

Gauge



Area Alarm

Semi Dulex Console System

→ Type

Horizontal wall exposed mount

Consisting

■ Main frame: Al profile 2.5t anodizing finished

■ Panel: Al profile 2t baked painting



Semi Deluxe Console 2



Semi Deluxe Console 3



Multi Console System

→ Type

■ Horizontal wall exposed mount

Consisting

■ Main frame: Al profile 2t anodizing finished

Panel: Al profile 2t baked painting



Multe Console 2A



Multe Console 2B



Electric Console System

- → Type
- Horizontal wall exposed mount
- Consisting
- Main frame: Al profile 2t anodizing finished
- Panel: Al profile 2t baked painting



Electric Console 1



Electric Console 2

Accessory

- Monitor diy
- → Basket





Monitor diy

Baske

Gallery Wall Unit

The gallery wall module combines design versatility and medicalutility in a unique systems that allows the designer to create comfortable setting with easy, immediate access to medical gases and electrical services,





Gallery Wall Unit

GENERAL WALL OUTLET (Pin-Index)

→ Type

Wall mounted for concealed piping

Consisting

Box : Steel 1.6t baked paintingPanel : ABS Crom painting

■ Stop valve: Machined brass body

■ Name plate & dust cover

Extension tube-Dia 9.52/12.70

■ Each gas modular assembly



Wall Outlet 2



Wall Outlet 4

SHUP-OFF VALVE

→ Type

- Wall mounted for concealed
- Piping with monitoring gauge

Consisting

■ Box: Steel 1.6t baked painting

■ Panel: Polycarbonate 1.0t silk painting

■ Gauge: Oxygen-15kgf/cm²

Nitrous-oxide-15kgf/cm²

Comp.air-15kgf/cm² Vacuum-760mmHg

Nitrogen-35kgf/cm²





Shup-Off Valve

Ceiling Hose Reel

→ Type

■ Ceiling mounted retractable reel type

Consisting

- Ceiling cover: color coded aluminium
- Hose: 10feet long gum rubber
- Retractable hose reel w/auto lock device
- Quick connect check valve





Ceiling Hose Outlet

→ Type

- Ceiling mounted retractable spring type Consisting
- Ceiling cover: color coded aluminium
- Hose: 6feet long gum rubber
- Retractable string or wire type
- Quick connect check valve



Nitrogen Control Panel

Type

Wall mounted for concealed piping

Consisting

Box: Steel 1.6t baked painting

Panel: Steel 1.6t baked painting w/name plate

Supply pressure Gauge: 35kgf/cm²
 Outlet pressure Gauge: 15kgf/cm²

■ Pressure regulator

Outlet valve

■ Shut-off valve



Nitrogen Control Panel

Surgical Control Panel

Type

- wall built-in for concealed piping
- w/Monitoring Gauge

Consisting

■ Box: Steel 1.6t baked painting

■ Panel: Steel 1.6t baked painting w/name plate

■ Emergence breakable acryl panel

■ Shut-off valve

Gauge: Gauge: 15kgf/cm²
 Comp—air: 35kgf/cm²
 Nitrous—oxide: 35kgf/cm²
 Vacuum: 760mmHg
 Eavacution: 760mmHg



Surgical Control Panel

Evacuation Outlet

→ Type

■ Box: Steel 1.6t baked painting

■ Function: Evacuate excess gas

Automatic purging at operation area

Construction

Box: Steel 1.6t baked painting

Panel: Stainless Steel 1.6t baked finished

Inlet excess anesthetic gas & adaptor (Pin-index)

■ Vacuumgauge: 760mmHg



Evacuation Outlet

Special Care Desk Wall System

- Match individualized requirements and meet option needs.
- DuraBility construction with AL profile and laminate panels.
- Color selections to complement your room decor.
- Available every aplocation-service outlet can be optional fix as hospital requirement.
- Fast, simple, economical installation.





Special Care Flat Wall System

- Uncluttered appearance gives any room a neat, clean, appearance.
- Clean straight line design units avaulable in any width or height to suit your patient service needs.
- match individualized requirements and meet optional needs.
- Economical solution for patient care.



Ceiling Pendent

→ Type

■ 330° ... rotation vertical and horizontal reach

→ Consisting

- Long-lasting brakes
- Durable aluminium ceiling structure

Consisting of

- Oxygen, nitrous-oxide, air, vacuum outlet
- Evacuation outlet (option)
- Pneumatic drive control switch
- variety of movements up to 2.50m
- 360° ... rotation shelf(option)



Ceiling Column

→ Type

- Vacuum powered retractable type
- Electric power(power cylinder)
- Durable fixed position type

Service head

- General service head
- Jumbo service head

→ Construction

- Box: Steel 1.2t baked painting
- Panel: Steel 1.6t baked painting

Consisting of

- Oxgen, nitrous-oxide, air vacuum outlet
- Evacuation outlet(option)
- Pneumatic drive control switch or electric control switch



Patient Care Secondary Equipments

Oxygen Flowmeter w/Humidifier

→ Features

- Solid brass body chrome plated for durability.
- Control Valve is back pressure compensated so flow accuracy is not effect by restrictions caused by humidifier, ventilators, etc.
- Unbreakable polycarbonate bottle & Provides an audible alarm humidifier.

Construction

Flow range : 0~15 lpm
 Flush flow : 70 lpm
 Filtering : 0.1 micron
 Use pressure : 3.5kgf/m²

■ Relief valve: 0.6kgf/cm²



Oxygen Flowmeter

Wall Suction

Wall Suction unit-One Bottle

Features

- Suction Regulator with collection bottle
- Regulator vacuum range: 0~300mmHg to full line
- Change selector : Regulated/off/full line
- Unbreakable polycarbonate collection bottle 1200cc w/over-flow protector
- One touch collection bottle separation
- Easy to control low pressure suction

Movable Suction unit

Construction

- Type: Movable kick type
- Consisting Of Suction gaug: 0-760mmHG
 - 8000CC collection bottle



Movable

Wall Suction unit-Two Bottle

→ Features

- Suction Regulator with safety trap bottle & Collection bottle
- Regulator vacuum range: 0~300mmHg to full line
- Change selector: Regulated/off/full line
- Unbreakable polycarbonate safety trap bottle 300cc
- Unbreakable polycarbonate safety trap bottle 1200cc w/over-flow protector



Wall Suction unit-Two Bottle

Check Valve & Adapter Variation

Oxygen Flowmeter w/Humidifier



Pin index type: puch Check



Inlet or push Check



Pin index type: Twist type



Pin index type: Adaptor



Pin index type: Circle type



Pin index type: Adaptor (Color)



Pin index type: Twist (Y Check)



Schrader Check



Diss type