



AFR!GAZ

MEDICAL GAS SYSTEMS

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Inspital Reliable Solutions in Critical Areas.

Inspital manufactures all the major units required for modern gas network from medical gas plants through to medical gas outlets.





Flowmeters

Inspital offers different models of flowmeters according to their gas flow scale, connection types and humidity jars that can be used with oxygen.

Flowmeters can be either connected to medical gas outlets directly or attached on rail system and connected to the outlets by flexible hoses.

Flowmeters are categorized as adult type with gas flow adjustment between 0-15 L/min.

Sizes (LxWxH)	:145 / 48 mm - 145 / 145 mm
Inlet	:Whitworth GAS 1/8"
Pressure	:4.2 Kgs/cm ² – 60 psi – 414 kPa
Flow Rate	:0 - 15 L/min

Flowmeters L/min	Without Adaptor						
O₂							
O-15	FM20.11	FM20.21	FM20.31	FM20.41	FM20.51	FM20.61	FM20.71
Rail	FM20.12	FM20.22	FM20.32	FM20.42	FM20.52	FM20.62	FM20.72
O-15 dual	FM20.13	FM20.23	FM20.33	FM20.43	FM20.53	FM20.63	FM20.73
Dual rail	FM20.14	FM20.24	FM20.34	FM20.44	FM20.54	FM20.64	FM20.74
Air							
O-15	FM20.15	FM20.25	FM20.35	FM20.45	FM20.55	FM20.65	FM20.75
Rail	FM20.16	FM20.26	FM20.36	FM20.46	FM20.56	FM20.66	FM20.76
O-15 dual	FM20.17	FM20.27	FM20.37	FM20.47	FM20.57	FM20.67	FM20.77
Dual rail	FM20.18	FM20.28	FM20.38	FM20.48	FM20.58	FM20.68	FM20.78



Variable Area
Flowmeters



Calibrated Orifices
Flowmeters

Variable Area Flowmeters

- Nipple with double thread, interchangeable by the end user
 - I/O switch. Quick push switch button
 - Graduate scale reading, measurement tube with “lens effect”
 - Adjusting knob. Big size, with Push&Lock position set system and Soft Grip inserts for easy handling
- Sizes (LxWxH): :61x107x175 mm
Gas supply pressure : :280÷600 kPa
Gases options: :O2 , Air
End of scale values : :5 L/min. , 10 L/min. , 15 L/min. , 30 L/min. , 40 L/min.
Flow calibration data: :1013 mbar 23 °C

Variable Area Flowmeters L/min	Without Adaptor	 BS 5682	 DIN 13260	 NF 90 116	 DISS	 CHEMETRON	 OHMEDA
Q-15	FM21.11	FM21.21	FM21.31	FM21.41	FM21.51	FM21.61	FM21.71
Rail	FM21.12	FM21.22	FM21.32	FM21.42	FM21.52	FM21.62	FM21.72
Q-15 dual	FM21.13	FM21.23	FM21.33	FM21.43	FM21.53	FM21.63	FM21.73
Dual rail	FM21.14	FM21.24	FM21.34	FM21.44	FM21.54	FM21.64	FM21.74

Calibrated Orifices Flowmeters L/min	Without Adaptor	 BS 5682	 DIN 13260	 NF 90 116	 DISS	 CHEMETRON	 OHMEDA
Q-15	FM21.15	FM21.25	FM21.35	FM21.45	FM21.55	FM21.65	FM21.75
Rail	FM21.16	FM21.26	FM21.36	FM21.46	FM21.56	FM21.66	FM21.76
Q-15 dual	FM21.17	FM21.27	FM21.37	FM21.47	FM21.57	FM21.67	FM21.77
Dual rail	FM21.18	FM21.28	FM21.38	FM21.48	FM21.58	FM21.68	FM21.78



Flowmeter Humidifier Bottle

- Designed to humidify the oxygen before patient's respiration
- Made of polycarbonate and scaled
- Sterilizable up to 121 °C
- 150 ml and 200 ml capacity options
- Connection to Flowmeter : Moving pipe union
- Lid material : Plastic

	200 ml	300 ml
Model No	FM21.82	FM21.83



Oxygen Therapy Device

Inspiral Oxygen Therapy Device is appropriate to use in hospitals, emergency services and homecare usage. This device is designed to adjust and control the oxygen flow.

- Chrome plated brass trunk
- High resisting polycarbonate humidifier bottle suitable for sterilization
- Regulator Inlet Pressure: 200 kg/cm²
- Regulator Outlet Pressure: 3.5-4 kg/cm²
- Adjustable Flow: 0-15 L/min
- Pressure Gauge Range: 0-315 kg/cm²
- Sterilization Method: 121 °C

	Without Adaptor	Bull Nose	DIN	PIN INDEX
Model Nos	FM21.85	FM21.86	FM21.87	FM21.88

Respiration Equipment



Regulators

- Chrome plated brass trunk
- Flow adjustment knob
- Pressure or vacuum gauge
- Gas specific connection port
- Suitable outlet for hose connection

							
Gas Type	Without Adaptor	BS 5682	DIN 13260	NF 90 116	DISS	CHEMETRON	OHMEDA
Oxygen	FG50.10	FG50.11	FG50.12	FG50.13	FG50.14	FG50.15	FG50.16
Nitrous Oxide	FG50.20	FG50.21	FG50.22	FG50.23	FG50.24	FG50.25	FG50.26
Vacuum	FG50.30	FG50.31	FG50.32	FG50.33	FG50.34	FG50.35	FG50.36
Medical Air 4	FG50.40	FG50.41	FG50.42	FG50.43	FG50.44	FG50.45	FG50.46
Medical Air 7	FG50.50	FG50.51	FG50.52	FG50.53	FG50.54	FG50.55	FG50.56



Ventury Type Vacuum Regulators

Venturi Type Vacuum Regulator is designed to provide vacuum by using compressed air or oxygen source. There is a chrome coated brass trunk in regulator. Available in BS, DIN and AFNOR standards.

							
Gas Type	Without Adaptor	BS 5682	DIN 13260	NF 90 116	DISS	CHEMETRON	OHMEDA
Vacuum	FG51.01	FG51.02	FG51.03	FG51.04	FG51.05	FG51.06	FG51.07



Vacuum Regulator

- Max. suction flow : 115 L/min
- Max. available negative : -950 mbar pressure effective value
- Vacuum gauge : 0 + -1000 mbar
- I/O switch : Quick push switch button

Gas Type	Without Adaptor					
Vacuum	FG52.01	FG52.02	FG52.03	FG52.04	FG52.05	FG52.06



Vacuum Regulator

- Max. suction flow : 115 L/min
- Max. available negative : -950 mbar pressure effective value
- Vacuum gauge : 0 + -1000 mbar
- I/O switch : Quick push switch button

Gas Type	Without Adaptor					
Vacuum	FG52.10	FG52.11	FG52.12	FG52.13	FG52.14	FG52.15



Venturi System Suction Units

- Max. suction flow : 27 L/min
- Max. adjustable depression : -0.85 bar
- Gas and supply pressure : Compressed air, 400 kPa (4.0 bar)
- Vacuum gauge scale : 0 + -1 bar
- Max air consumption : 60 L/min

						
Gas Type	Without Adaptor	BS 5682	DIN 13260	NF 90 116	DISS	OHMEDA
Medical Air	FG53.01	FG53.02	FG53.03	FG53.04	FG53.05	FG53.06



Venturi System Suction Units

- Max. suction flow : 27 L/min
- Max. adjustable depression : -800 mbar
- Gas and supply pressure : Compressed air, 400 kPa (4.0 bar)
- Vacuum gauge scale : 0 + -1000 mbar
- Max air consumption : 60 L/min

						
Gas Type	Without Adaptor	BS 5682	DIN 13260	NF 90 116	DISS	OHMEDA
Medical Air	FG53.10	FG53.11	FG53.12	FG53.13	FG53.14	FG53.15

Suction Accessories



Reusable Canister

Model No	Explanation
AT20.01	Canister, 1 L
AT20.02	Canister, 2 L
AT20.03	Canister, 3 L
AT20.04	Reusable lid

- Suitable for high vacuum applications
- New generation easy to use & hygienic system
- Antibacterial & hydrophobic self-sealing filter for extra safety
- Easy connection to central vacuum system



Suction Liner

Model No	Explanation
AT20.10	Suction Liner, 1 L
AT20.20	Suction Liner, 2 L
AT20.30	Suction Liner, 3 L
AT20.11	Suction Liner With Antifoam, 1 L
AT20.22	Suction Liner With Antifoam, 2 L
AT20.33	Suction Liner With Antifoam, 3 L
AT20.91	Suction Liner With Solidifying Agents, 1 L
AT20.92	Suction Liner With Solidifying Agents, 2 L
AT20.93	Suction Liner With Solidifying Agents, 3 L

- No contact with patient.
- Liner and lid are made of durable plastic.
- Liners are flexible
- In bags, optionally, disinfectant, foam inhibitor and gelling agents are available.



Rail Clamp

Explanation	Model No
For 25 x 5 mm Rail	AT20.37



Silicone / PVC Tube

Explanation	Model No
8 x 14 (1m, silicone)	AT20.47
6 x 11 (1m, silicone)	AT20.46
8 x 12 (1m, PVC)	AT20.44
10 x 14 (1m, PVC)	AT20.45



Yankauer Tipped Hose

Explanation	Model No
1,8 Meter	AT20.40



Wall Attachment

Explanation	Model No
Wall Attachment	AT20.50



Vacuum Control Connector

Explanation	Model No
Control Connector	AT20.54



Tube Connector

Explanation	Model No
Non-Sterile	AT20.52



Suction Cannula, Plastic

Explanation	Model No
Non-Sterile	AT20.55



Kapkon Connector

Explanation	Model No
Kapkon Connector	AT20.53



Central Vacuum System

- Integrated vacuum regulator
- Liner and lid are made of durable plastic.
- Trolley with 4 pcs vacuum jars capacity
- Polycarbonate, transparent vacuum jars with silicone hoses
- Sterilizable jars at 121°

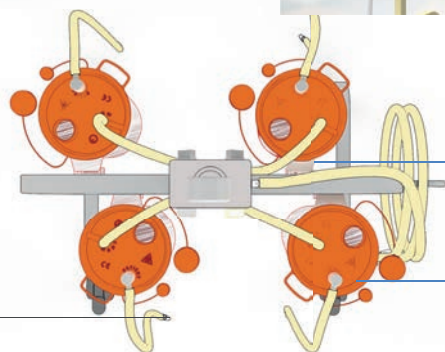
Model: AT20.75



1



2



3



4

1. Patient port - The patient port allows the suction of fluids and all its content safely
2. Suction kit - Inspital suction system has wide range of accessories for different suction applications
3. Vacuum port - This port connects to vacuum source coming from surgical suction device or central vacuum station line
4. The Filter - Inspital suction liners are equipped with hydrophobic filter which work as an overflow valve and antibacterial barrier. It also keeps the electrosurgery smoke in the liner and protects the operation environment



Vacuum Jar

- Made of transparent polycarbonate material
- 1L and 2 L carrying capacity alternative
- Sterilizable jars at 121° C
- Adapter for wall connection
- Integrated hydrophobic filter

Model No	Capacity
AT20.72	2 L
AT20.71	1 L

Medical Gas Outlets and Accessories

Medical Gas Outlets

- Outlet Dia : 45 mm
Copper Pipe Dia : 10 mm
Production Standard : BS 5682/EN ISO 9170-1
Color Codes : Oxygen – White
Vacuum – Yellow
Nitrous Oxide – Blue
Compressed Air – Black & White



					
	Oxygen	Vacuum	Air 4	Air 7	N ₂ O
DIN	PR80.01	PR80.02	PR80.03	PR80.04	PR80.05
BS	PR80.06	PR80.07	PR80.08	PR80.09	PR80.10

Medical Gas Outlets

- Outlet Dia : 50 mm
Copper Pipe Dia : 8 mm
Production Standard : BS 5682/EN ISO 9170-1
Color Codes : Oxygen – White
Vacuum – Yellow
Nitrous Oxide – Blue
Compressed Air – Black & White



					
	Oxygen	Vacuum	Air 4	Air 7	N ₂ O
DIN	PR80.11	PR80.12	PR80.13	PR80.14	PR80.15
BS	PR80.16	PR80.17	PR80.18	PR80.19	PR80.20
AFNOR	PR80.21	PR80.22	PR80.23	PR80.24	PR80.25



AGSS Terminal Units

Uztech AGSS terminal units are designed according to safety and performance requirements of standard EN ISO 9170-2. AGSS Outlets manufactured according to DIN and BS standard.

Technical specifications

- Can be used as under plaster, on plaster or pendant outlet
- Special port to enable safe connection
- Venturi Type Outlet option
- Made of S/S frame and chrome plated brass material

Probe Type	BS	BS	DIN (Venturi Type)			DIN
Model No	PR80.26	PR80.27	PR80.28	PR80.29	PR80.30	PR80.31



Medical Gas Outlets

Outlet Dia : 50 mm
Copper Pipe Dia : 10 mm
Production Standard : BS 5682/EN ISO 9170-1
Color Codes : Oxygen – White
 Vacuum – Yellow
 Nitrous Oxide – Blue
 Compressed Air – Black & White

	Oxygen	Vacuum	Air	N ₂ O
DISS	PR80.32	PR80.33	PR80.34	PR80.35
CHEMETRON	PR80.36	PR80.37	PR80.38	PR80.39
OHMEDA	PR80.40	PR80.41	PR80.42	PR80.43

Medical Gas Outlets and Accessories

Probes

Inspital Probes produced according to international standards and with special label for gas. They are used to supply necessary gases from terminal units to the patient or medical equipments via hose connections or by direct connection to the equipment. Inspital Probes are manufactured in compliance with BS 5682:1992, DIN 13260, AFNOR NF S 90-116.

- Manufactured according to BS, DIN & AFNOR standard
- Special connections for O2, N2O, AIR 4 and AIR 7
- Labeling for each gas type
- Safe hose connection
- Made of chrome plated brass material



							
		BS	DIN	AFNOR	DISS	CHEMETRON	OHMEDA
Oxygen	Stainless Steel	JK90.50	JK90.51	JK90.52	JK90.53	JK90.54	JK90.55
	Bras	JK90.56	JK90.57	JK90.58	—	—	—
Vacuum	Stainless Steel	JK90.60	JK90.61	JK90.62	JK90.63	JK90.64	JK90.65
	Bras	JK90.66	JK90.67	JK90.68	—	—	—
Air 4	Stainless Steel	JK90.70	JK90.71	JK90.72	JK90.73	JK90.74	JK90.75
	Bras	JK90.76	JK90.77	JK90.78	—	—	—
Air 7	Stainless Steel	JK90.80	JK90.81	JK90.82	JK90.83	JK90.84	JK90.85
	Bras	JK90.86	JK90.87	JK90.88	—	—	—
N ₂ O	Stainless Steel	JK90.90	JK90.91	JK90.92	JK90.93	JK90.94	JK90.95
	Bras	JK90.96	JK90.97	JK90.98	—	—	—
CO ₂	Stainless Steel	JK91.10	JK91.11	JK91.12	JK91.13	JK91.14	JK91.15
	Bras	JK91.16	JK91.17	JK91.18	—	—	—
AGSS	Stainless Steel	JK91.20	JK91.21	JK91.22	JK91.23	JK91.24	JK91.25
	Bras	JK91.26	JK91.27	JK91.28	—	—	—



S/S Outlet Boxes, On Plaster

- Made of 304 quality S/S material
- Suitable for on plaster installation
- Several length and outlet standard alternatives

Explanation	Length	Outlet Qty	Model No
On Plaster	310 mm	2	PR81.01
On Plaster	460 mm	3	PR81.02
On Plaster	610 mm	4	PR81.03
On Plaster	760 mm	5	PR81.04
On Plaster	910 mm	6	PR81.05
On Plaster	1110 mm	7	PR81.06



Outlet Boxes, Under Plaster

- Made of 304 quality S/S material
- Suitable for under plaster installation
- Several length and outlet standard alternatives

Explanation	Length	Outlet Qty	Model No
Under Plaster	310 mm	2	PR81.07
Under Plaster	460 mm	3	PR81.08
Under Plaster	610 mm	4	PR81.09
Under Plaster	760 mm	5	PR81.10
Under Plaster	910 mm	6	PR81.11
Under Plaster	1110 mm	7	PR81.12



Plastic Outlet Boxes, Under Plaster

- Made of plastic material
- Suitable for under plaster installation
- Several length and outlet standard alternatives

Explanation	Length	Outlet Qty	Model No
Under Plaster	100 mm	1	PR81.17
Under Plaster	250 mm	2	PR81.18
Under Plaster	400 mm	3	PR81.19



Medical Gas Hoses

- Special hoses for medical gases
- Made of thermoplastic and rubber material
- Color coding according to EN 739 standard
- Suitable up to 20 bar pressure
- Inner dia: 6,7 mm Outer dia: 12 mm

Hose Type	Model No
O2	PR81.13
N2O	PR81.14
AIR	PR81.15
VAC	PR81.16

Patient Bed Head Units



Patient Bed Head Unit with Three Channels and Double Lamps,

Inspital Patient Bed Head Units are designed to provide integrated solutions of medical gas outlets, nurse call systems and electrical outlets in patient areas.

Our Bedhead Units are designed and manufactured in compliance with HTM 02-01, HTM 2022, MDD 93/42/EEC, EN 1441:1997, ISO 9001:2000, ISO 13485:2001, EN 793, EN 980, and HTM 2015 standards.

- All electrical installation is carried out in accordance with IEE regulations.
- Bed Head Units are made from impact-resistant materials and they are suitable for cleaning with hospital disinfectants.
- Alternative lengths for single, double and triple patient beds

Explanation	Length	Outlet	Model No
Single bed	1500-1800 mm	3 pcs	GB22.10
Double bed	3000-3600 mm	6 pcs	GB22.20

Standard Accessories

- Medical gas sockets :2 pcs (O2 and Vac)
- Electrical socket :3 pcs 220 V (BS and DIN)
- Reading lamp :2 pcs
- Power button :1 pc

Optional Accessories

- Phone
- UPS
- Data socket
- Nurse call socket

Technical Specifications

- Package dimensions : (WxLxH) 260x1550x120 mm
- Material specifications : Electrostatic Painted Extruded Aluminum
- Total weight : 12 kg
- Color : Body RAL 9002 Cover RAL 1013
- Inlet voltage : 220V 50 Hz



Patient Bed Head Unit with Three Channels and Double Lamps

Inspital Patient Bed Head Units are designed to provide integrated solutions of medical gas outlets, nurse call systems and electrical outlets in patient areas.

Our Bedhead Units are designed and manufactured in compliance with HTM 02-01, HTM 2022, MDD 93/42/EEC, EN 1441:1997, ISO 9001:2000, ISO 13485:2001, EN 793, EN 980, and HTM 2015 standards.

- All electrical installation is carried out in accordance with IEE regulations.
- Bed Head Units are made from impact-resistant materials and they are suitable for cleaning with hospital disinfectants.
- Alternative lengths for single, double and triple patient beds

Explanation	Length	Outlet	Model No
Single bed	1500-1800 mm	4 pcs	GB22.30
Double bed	3000-3600 mm	8 pcs	GB22.40



Standard Accessories

- Medical gas sockets :2 pcs (O2 and Vac)
- Electrical socket :4 pcs 220 V (BS and DIN)
- Reading lamp :2 pcs
- Power button :1 pc

Optional Accessories

- Phone
- UPS
- Data socket
- Nurse call socket

Technical Specifications

- Package dimensions : (WxLxH) 260x1550x120 mm
- Material specifications : ABS Plastic Extruded Aluminum
- Total weight : 12 kg
- Color : Body RAL 9002
Cover RAL 1013
- Inlet voltage : 220V 50 Hz

Patient Bed Head Units



Patient Bed Head Unit with Double Channel and Double Rail

Inspiral Patient Bed Head Units are designed to provide integrated solutions of medical gas outlets, nurse call systems and electrical outlets in patient areas.

Our Bedhead Units are designed and manufactured in compliance with HTM 02-01, HTM 2022, MDD 93/42/EEC, EN 1441:1997, ISO 9001:2000, ISO 13485:2001, EN 793, EN 980, and HTM 2015 standards.

- All electrical installation is carried out in accordance with IEE regulations.
- Bed Head Units are made from impact-resistant materials and they are suitable for cleaning with hospital disinfectants.
- Alternative lengths for single, double and triple patient beds

Explanation Wall Type	Length	Electrical Socket	Model No
Single bed	1500-1800 mm	6 pcs	GB22.01
Double bed	3000-3600 mm	12 pcs	GB22.02

Explanation Ceiling Type	Length	Electrical Socket	Model No
Single bed	1500-1800 mm	6 pcs	GB22.03
Double bed	3000-3600 mm	12 pcs	GB22.04

Standard Accessories

- Electrical socket 6 pcs (BS and DIN)
- Earth node 4 pcs

Optional Accessories

- Telephone
- UPS
- Data socket
- Nurse call socket
- Monitor tray
- Height adjustable IV rod
- Examination lamp

Technical Specifications(70.2030)

- Package dimensions : (w x l x h) 300 x 1550 x 130 mm
- Material specifications : Anodized or static painted extruded aluminium
- Total weight : 14 kg
- Color : Eloxal
- Inlet voltage : 220v 50 hz

Technical Specifications(70.2050)

- Aluminum profile : (w x l x h) 300 x 1550 x 155 mm
- Steel profile : (w x l x h) 200 x 1350 x 200 mm
- Flange : (w x l x h) 300 x 300 x 240 mm
- Material Specifications : Anodized or static painted extruded aluminium steel tubing hanger
- Total weight : 47 kg
- Color : RAL 9002

Nurse Calling Systems

Analog Wired and Wireless System Components

Nurse Call Panel



- 4 Digits time and temperature display.
- 4 Digits are used as the main indicator for the last call.
- 4 digits and 4 lines used to indicate previous incoming calls.
- Emergency case and nurse is in room cases displayed by LED's.
- Events are announced by voice event buzzer as different voices depending on type of event.
- Can manage 256 patient rooms.

Model: GB22.70



Wireless Nurse call panel

- Linux Based System - 99.9% Stable and well secured.
- Oracle Mysql database
- Showing 5 calls at same time.
- Call queue system
- Priority system for emergency calls.
- Texting between panels.
- Call orientation - Away from service

Model: GB22.71



Patient Handset (Wired/Wireless)

- Patient handset provides more facilities for patient to send emergency request easily. It's easy to use, and it has been further strengthened with visual help logos. Intuitive visual aids are directed according to the needs of the patient and LED's on confirmed sending call to the nurse.

Model: GB22.72 Wired

Model: GB22.73 Wireless



Repeater (Wireless)

- This unit used to increase the range between nurse panel and nurse calling units. It works with 5V power supply. It should be used each.

Model: GB22.74



Room Control Unit

- It supports 4 bed, 1 WC and 1 bathroom
- Can operate without power input
- Its easy to adress with dip switches

Model: GB22.75



Patient Unit (Wired/Wireless)

- Console is mounted on the patient headboard. Bed Set unit is connected to the headboard unit via RJ45 socket.
- High quality ABS raw materials.
- Call and Reset buttons are lighted with LED's so they are easy to notice.

Model: GB22.76 Wired

Model: GB22.77 Wireless



WC Call Unit (Wired/Wireless)

- Wc Call Unit is used in the bathrooms of patient rooms. In an emergency, patient pulls the rope making an emergency call. Appears as a WC Emergency call on nurse console. System gives priority to WC Emergency calls and appears before other calls. There is a call reset button and emergency call rope on the unit.

Model: GB22.78 Wired

Model: GB22.79 Wireless



Room Signal Lamps(wired/wireless)

- Overdoor Corridor Lamp is located above room door in the corridor.
- Maintenance-technical support free plug and play architecture.
- 3 different main colors (blue, green, red)
- Very low energy consumption and environment friendly thanks to its LED design

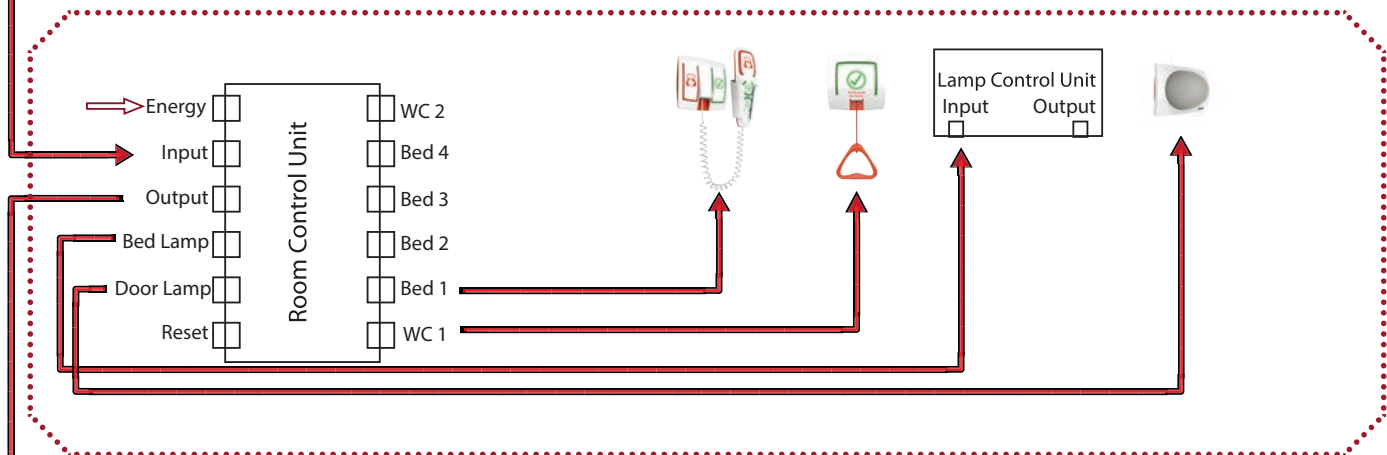
Model: GB22.80 Wired

Model: GB22.81 Wireless

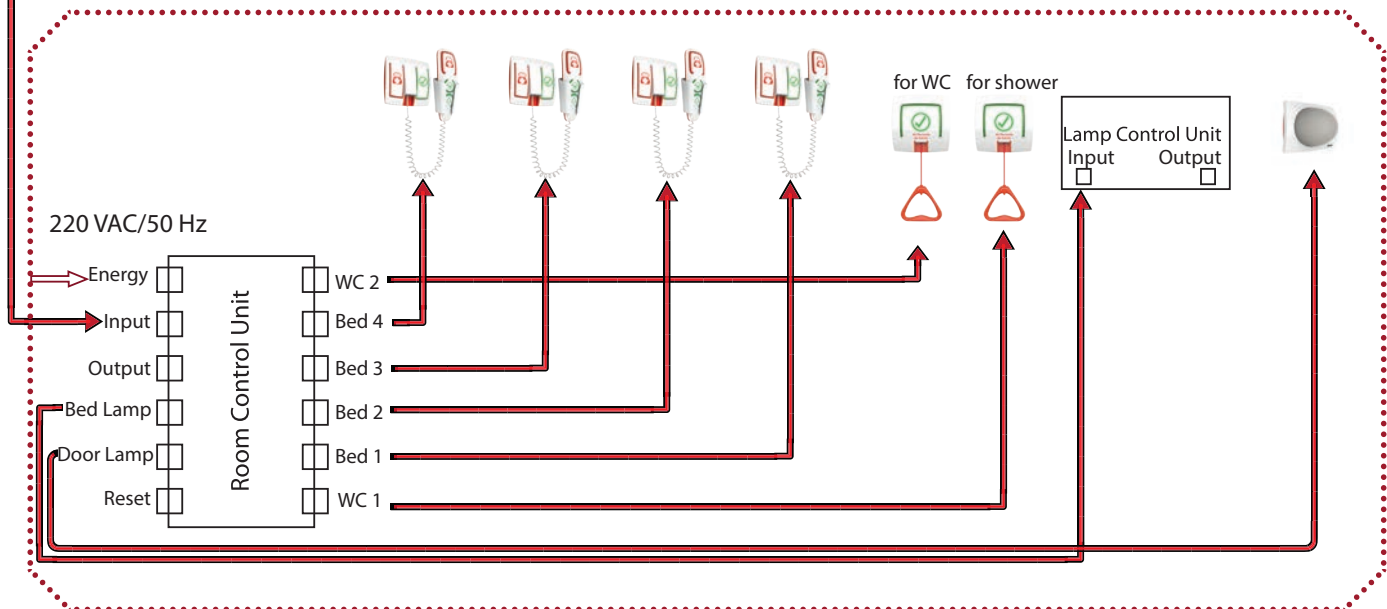


Nurse Call Scheme

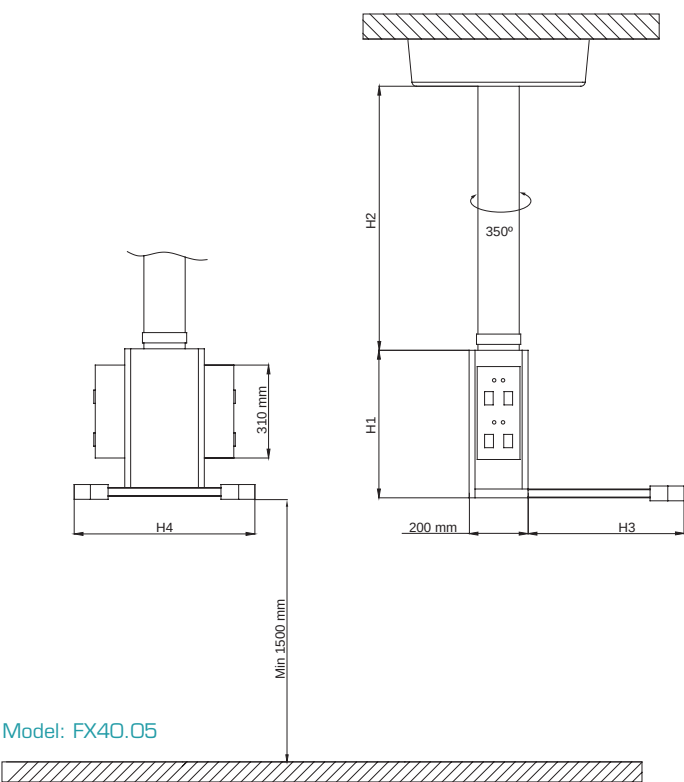
Patient Room (1 Bed)



Patient Room (4 Bed)



Pendants



Model: FX40.05

Pendant with Monitor Shelf

Inspital Pendants are used to provide medical gas outlets and electrical services around the patient especially in operating theatres, ICUs, recovery and similar medical places. Our Pendants are designed and manufactured in compliance with HTM 02-01, HTM 2022, MDD 93/42/EEC, EN 1441:1997, ISO 9001:2000, ISO 13485:2001, EN 46001:1997, EN 793, EN 980, EN 940, HTM 2022 and HTM 2015 standards.

H1 dimensions	H2 dimensions	H3, H4 dimensions
500 mm	100 mm	495x467
800 mm	300 mm	395x367
1200 mm	500 mm	
	700 mm	
	900 mm	
	1100 mm	

Standard Accessories

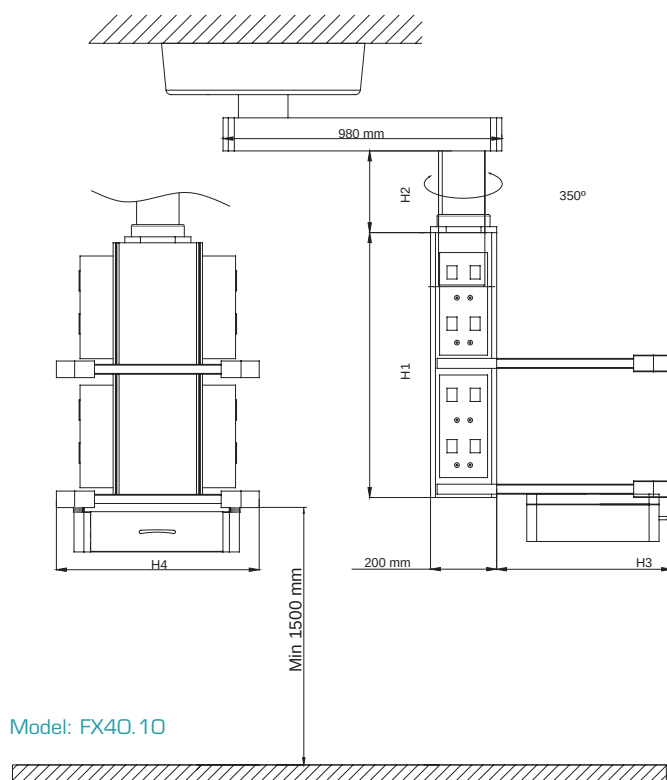
- Power Outlet: 8 Number UK, USA, Europe
- Grounding Note: 8 Pcs
- Rail Shelf: 1 Pc

Optional Accessories

- Shelves
- IV Pole
- Drawer
- Data socket (RJ45)
- Pressure gauge for Medical Gases
- Medical gas outlets (BS, DIN, NF)

Technical Specifications

Movement control	:Manual
Direction of movement	:Horizontal
Carrying capacity	:50 kg
Material Specifications	:Hood (plastic) Vertical arm (steel profile) Body (aluminium) Tray (steel sheet 1mm)
Total weight	:90 kg
Color	:RAL 9002
Inlet voltage	:220V 50 Hz



Model: FX40.10

Single Joint Pendant with Double Shelf

Inspiral Pendants are used to provide medical gas outlets and electrical services around the patient especially in operating theatres, ICUs, recovery and similar medical places. Our Pendants are designed and manufactured in compliance with HTM 02-01, HTM 2022, MDD 93/42/EEC, EN 1441:1997, ISO 9001:2000, ISO 13485:2001, EN 46001:1997, EN 793, EN 980, EN 940, HTM 2022 and HTM 2015 standards.

H1 dimensions	H2 dimensions	H3, H4 dimensions
500 mm	100 mm	495x467
800 mm	300 mm	395x367
1200 mm	500 mm	
	700 mm	
	900 mm	
	1100 mm	

Standard Accessories

- Power Outlet: 8 or 16 Number UK, USA, Europe
- Grounding Note: 8 or 16 Piece
- Rail Shelf: 1 or 2 Piece

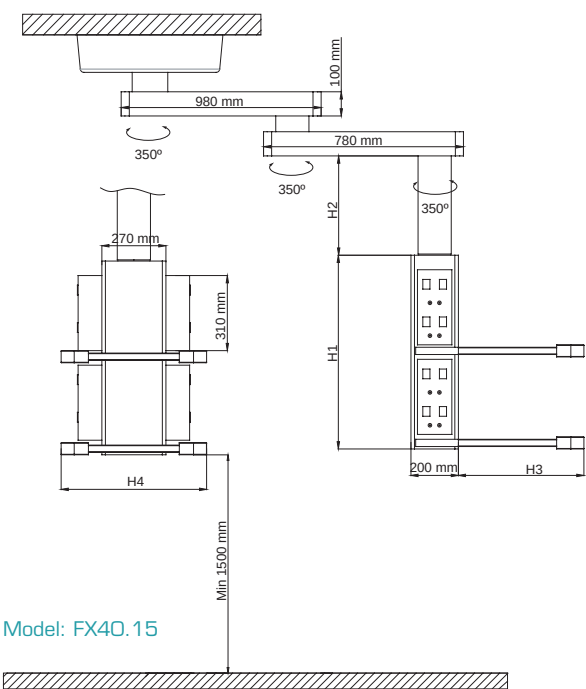
Optional Accessories

- Shelves
- IV Pole
- Drawer
- Data socket (RJ45)
- Pressure gauge for Medical Gases
- Medical gas outlets (BS, DIN, NF)

Technical Specifications

Movement control	:Manual
Direction of movement	:Horizontal
Carrying capacity	:50 kg
Material specifications	:Hood and articular tap,plastic Vertical lever,steel profile Socket part,aluminium Stand,steel sheet 1mm
Total weight	:195 kg
Color	:RAL 9002
Inlet voltage	:220V 50

Pendants



Double Joint Pendant with Double Shelf

Inspital Pendants are used to provide medical gas outlets and electrical services around the patient especially in operating theatres, ICUs, recovery and similar medical places. Our Pendants are designed and manufactured in compliance with HTM 02-01, HTM 2022, MDD 93/42/EEC, EN 1441:1997, ISO 9001:2000, ISO 13485:2001, EN 46001:1997, EN 793, EN 980, EN 940, HTM 2022 and HTM 2015 standards.

H1 dimensions	H2 dimensions	H3, H4 dimensions
500 mm	100 mm	495x467
800 mm	300 mm	395x367
1200 mm	500 mm	
	700 mm	
	900 mm	
	1100 mm	

Standard Accessories

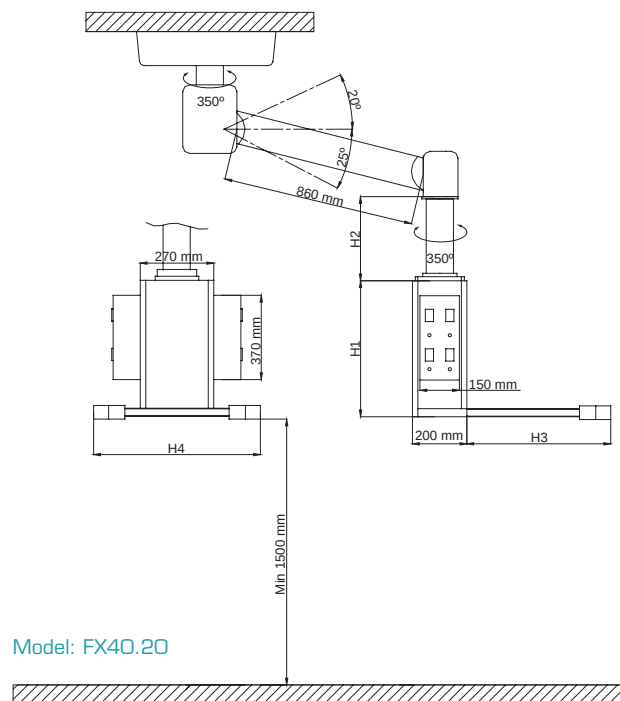
- Power Outlet: 16 Number UK, USA, Europe
- Grounding Note: 16 Piece
- Rail Shelf: 2 Piece

Optional Accessories

- Shelves
- IV Pole
- Drawer
- Data socket (RJ45)
- Pressure gauge for Medical Gases
- Medical gas outlets (BS, DIN, NF)

Technical Specifications

Movement control	:Manual
Direction of movement	:Horizontal
Carrying capacity	:50 kg
Material Specifications	:Hood (plastic) Vertical arm (steel profile) Body (aluminium) Tray (steel sheet 1mm)
Total weight	:210 kg
Color	:RAL 9002
Inlet voltage	:220V 50 Hz



Multimovement Pendant

Inspital Pendants are used to provide medical gas outlets and electrical services around the patient especially in operating theatres, ICUs, recovery and similar medical places. Our Pendants are designed and manufactured in compliance with HTM 02-01, HTM 2022, MDD 93/42/EEC, EN 1441:1997, ISO 9001:2000, ISO 13485:2001, EN 46001:1997, EN 793, EN 980, EN 940, HTM 2022 and HTM 2015 standards.

H1 dimensions	H2 dimensions	H3, H4 dimensions
500 mm	100 mm	495x467
800 mm	300 mm	395x367
1200 mm	500 mm	
	700 mm	
	900 mm	
	1100 mm	

Standard Accessories

- Power Outlet: 8 Number UK, USA, Europe
- Grounding Note: 8 pcs
- Rail Shelf: 1 pc

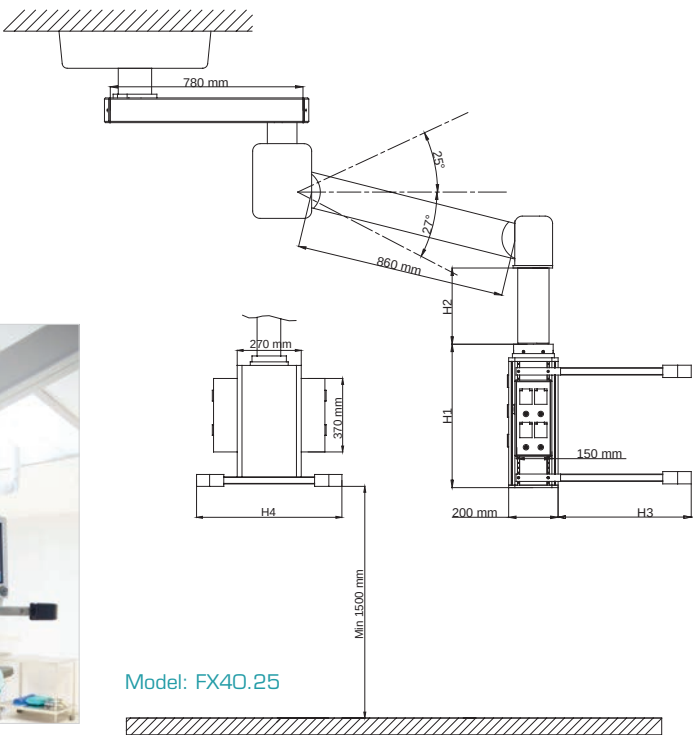
Optional Accessories

- Shelves
- IV Pole
- Drawer
- Data socket (RJ45)
- Pressure gauge for Medical Gases
- Medical gas outlets (BS, DIN, NF)

Technical Specifications

Movement control	:Automatic and manual
Direction of movement	:Vertical,Horizontal
Carrying capacity	:50kg
Material specifications	:Hood (plastic) Vertical arm (steel profile) Body (aluminium) Tray (steel sheet 1mm)
Movement around axis	:350
Total weight:	:190 kg
Color:	:RAL 9002
Inlet voltage:	:220V 50 Hz

Pendants



Multimovement Pendant

Inspital Pendants are used to provide medical gas outlets and electrical services around the patient especially in operating theatres, ICUs, recovery and similar medical places. Our Pendants are designed and manufactured in compliance with HTM 02-01, HTM 2022, MDD 93/42/EEC, EN 1441:1997, ISO 9001:2000, ISO 13485:2001, EN 46001:1997, EN 793, EN 980, EN 940, HTM 2022 and HTM 2015 standards.

H1 dimensions	H2 dimensions	H3, H4 dimensions
500 mm	100 mm	495x467
800 mm	300 mm	395x367
1200 mm	500 mm	
	700 mm	
	900 mm	
	1100 mm	

Standard Accessories

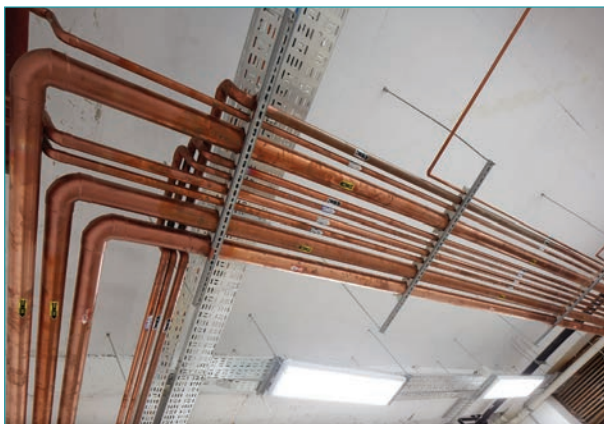
- Power Outlet: 8 or 16 Number UK, USA, Europe
- Grounding Note: 8 or 16 Piece
- Rail Shelf: 1 or 2 Piece

Optional Accessories

- Shelves
- IV Pole
- Drawer
- Data socket (RJ45)
- Pressure gauge for Medical Gases
- Medical gas outlets (BS, DIN, NF)

Technical Specifications

Movement control	:Automatic and manual
Direction of movement	:Vertical,Horizontal
Carrying capacity	:50kg
Material specifications:	:Hood (plastic) Vertical arm (steel profile) Body (aluminium) Tray (steel sheet 1mm)
Movement around axis	:350
Color	:RAL 9002
Inlet voltage	:220V 50 Hz



Copper Tubes

- Pipeline solutions for medical installations
- Medical copper tubes are degreased and marked according to EN 13348
- System in accordance with requirement of the medical gas market
- Supplied in 5 m lengths and individually capped

Model No	Explanation	Thickness	Working Pressure	Length
MB10.01	8 mm	1,0 mm	84 bar	5 m
MB10.02	10 mm	0,6 mm	84 bar	5 m
MB10.03	10 mm	1,0 mm	84 bar	5 m
MB10.04	12 mm	0,6 mm	77 bar	5 m
MB10.05	12 mm	1,0 mm	77 bar	5 m
MB10.06	15 mm	0,7 mm	63 bar	5 m
MB10.07	15 mm	1,0 mm	63 bar	5 m
MB10.08	22 mm	1,0 mm	58 bar	5 m
MB10.09	28 mm	1,0 mm	51 bar	5 m
MB10.10	28 mm	1,5 mm	51 bar	5 m
MB10.11	35 mm	1,0 mm	40 bar	5 m
MB10.12	35 mm	1,5 mm	40 bar	5 m
MB10.13	42 mm	1,0 mm	42 bar	5 m
MB10.14	42 mm	1,5 mm	42 bar	5 m
MB10.15	54 mm	1,5 mm	27 bar	5 m
MB10.16	54 mm	2,0 mm	27 bar	5 m
MB10.17	76 mm	1,5 mm	29 bar	5 m
MB10.18	76 mm	2,0 mm	29 bar	5 m
MB10.19	108 mm	2,0 mm	16 bar	5 m
MB10.20	108 mm	2,5 mm	16 bar	5 m

Copper Tubes And Accessories



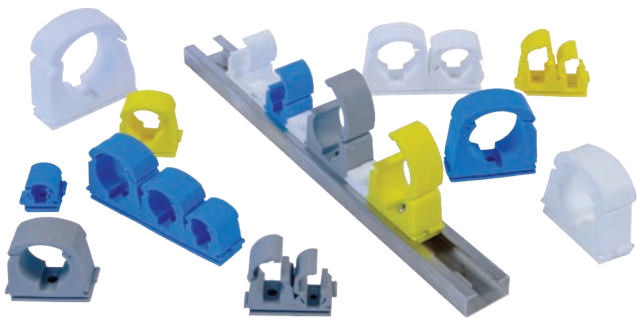
Fittings

- Biostatic and inhibits bacterial growth on its surface
- End connections: Copper x Copper
- Lightweight, strong and corrosion resistant
- Nonflammable
- Unaffected by sunlight, has no special storage requirements and cannot produce toxic fumes in a fire

				
	Elbow 90	Equal T	Coupling	Reducer
Diameter	Model No	Model No	Model No	Model No
10 mm	FT50.01	FT50.09	FT50.28	FT50.17 / 12x10 mm
12 mm	FT50.02	FT50.10	FT50.29	FT50.18 / 15x12 mm
15 mm	FT50.03	FT50.11	FT50.30	FT50.19 / 22X12 mm
22 mm	FT50.04	FT50.12	FT50.31	FT50.20 / 15x22 mm
28 mm	FT50.05	FT50.13	FT50.32	FT50.21 / 15x28 mm
35 mm	FT50.06	FT50.14	FT50.33	FT50.22 / 22x28 mm
42 mm	FT50.07	FT50.15	FT50.34	FT50.23 / 22x35 mm
54 mm	FT50.08	FT50.16	FT50.35	FT50.24 / 54X22 mm
				FT50.25 / 54X28 mm
				FT50.26 / 54X35 mm
				FT50.27 / 76X54 mm

Copper Pipe Clips

- Rail type, directly connectable and color coded
- Single and jointed usage
- Compatible with gas standard



Explanation	Blue	White	Gray	Yellow
Hook 10 - 12 mm	FT50.39	FT50.46	FT50.53	FT50.60
Hook 15 mm	FT50.40	FT50.47	FT50.54	FT50.61
Hook 22 mm	FT50.41	FT50.48	FT50.55	FT50.62
Hook 28 mm	FT50.42	FT50.49	FT50.56	FT50.63
Hook 35 mm	FT50.43	FT50.50	FT50.57	FT50.64
Hook 42 mm	FT50.44	FT50.51	FT50.58	FT50.65
Hook 54 mm	FT50.45	FT50.52	FT50.59	FT50.66

Model No	Explanation
FT50.36	Hook Rail
FT50.37	Stoper
FT50.38	Distance

Central Gas Station for O₂, N₂O and CO₂



It is guaranteed the continuity of medical gas supply in cylinder medical gas systems. The system consists of two parts including one reserve. When the pressure falls below a certain limit, the second system is automatically activated and so continuity can be ensured.

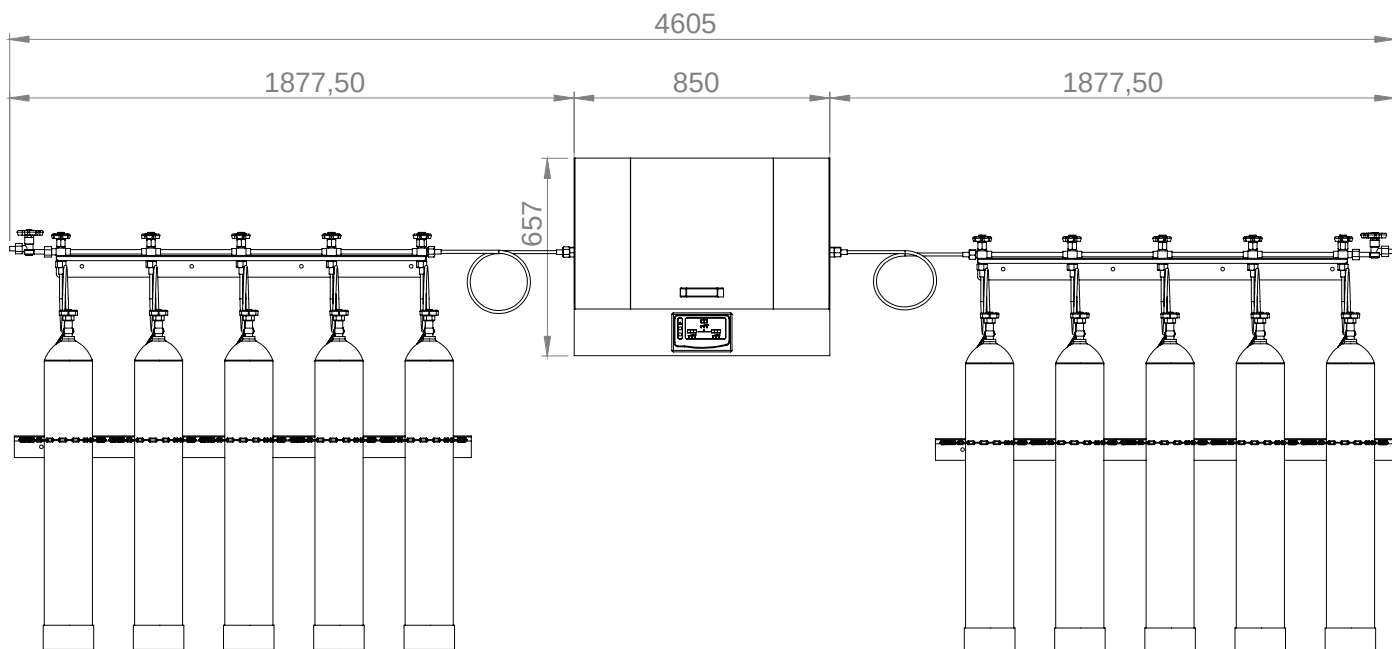
There are two high pressure regulators with 120 m³/h capacity in the automatic control panel of the plant. Plants are equipped with non-return valves in order to prevent discharge of the gas in the cylinders, during the replacement of the cylinders or in case of leakage from the pipeline. If the pressure of the gas in the operating cylinder group drops below 5 bar, control panel automatically transfers gas flow from working group to standby group by automatic changeover. Automatic Changeover is carried out by solenoid valves. Even even in a power failure situation, the gas flow in the hospital is not interrupted.



Medical Gas Plants

Oxygen Station	Model No	GZ71.01	GZ71.02	GZ71.03	GZ71.04	GZ71.05	GZ71.06	GZ71.07	GZ71.08	GZ71.09
Nitrous oxide Station	Model No	GZ71.10	GZ71.11	GZ71.12	GZ71.13	GZ71.14	GZ71.15	GZ71.16	GZ71.17	GZ71.18
High Pressure Reducer 100m3/h		-	-	-	1 pc	1 pc	1 pc	1 pc	1 pc	-
High Pressure Reducer 35m3/h		1 pc	1 pc	1 pc	-	-	-	-	-	1 pc
Cylinder Fixing Chain, Double		2 Ad								-
Cylinder Fixing Chain, Triple			2 pcs						-	-
Cylinder Fixing Chain, Four						4 pcs			-	-
Cylinder Fixing Chain, Five				2 pcs	2 pcs		4 pcs	6 pcs	8 pcs	-
Flexible Connection Pipe		4 pcs	6 pcs	10 pcs	10 pcs	16 pcs	20 pcs	30 pcs	40 pcs	2 pcs
Flexible Connection		2 pcs	2 pcs	2 pcs	2 pcs	4 pcs	4 pcs	6 pcs	8 pcs	1 pc
Ramp Double		2 pcs								1 pc
Ramp Triple			2 pcs							-
Ramp Four						4 pcs				-
Ramp Five				2 pcs	2 pcs		4 pcs	6 pcs	8 pcs.	
Discharge Valve		2 pcs								1 pc
Oxygen / Nitrous oxide Station Alarm panel		Including the High Pressure Regulators (1 pc)								
Cylinder Quantity on Station		2x2 pcs	2x3 pcs	2x5 pcs	2x5 pcs	2x8 pcs	4x5 pcs	6x5 pcs	8x5 pcs	2 pcs
Bed Quantity		30	30	50	30-50	40-70	70-100	100-150	150-200	5-10
Total Operating Theatre No. (N2O Central)		3	3	5	5 - 6	6 - 7	6 - 9	8-12	10-14	---
Total Station Weight[~]		227 kg	325 kg	520 kg	545 kg	840 kg	1040 kg	1350 kg	1995 kg	127 kg

Bed and Operating Room Numbers are given approximately





Manifold System with Double Regulator

Inspital Automatic Changeover Manifold designed to provide a continuous supply of oxygen, nitrous oxide, carbon dioxide. in healthcare facilities the manifold consists of two banks of cylinders, one on each side of the pressure control assembly. These pressured gases are used in Operation Theatres, Intensive Care Units, Neonatal Care Units, Emergency Rooms and Patient Rooms. Automatic Changeover Manifold are designed and manufactured in compliance with HTM 02-01, HTM 2022, MDD 93/42/EEC, EN 1441:1997, ISO 9001:2000, ISO 13485:2001, EN 793, EN 980, ISO 7396-1:2016 standards.

Features

- Designed to provide continuity of gas supply
- During exchange of the tubes, have been designed according to the principle of continuous transfer functionality
- Station capacities depending on the type of gas used and the distance

Services

- Oxygen 400 kPa
- Nitrous Oxide 400 kPa
- Carbon dioxide 400 kPa
- O₂/N₂O 400 kPa

Flow Rate

- 400 kPa System 1650 L/min

Pressure Reduction Capacity

- Maximum inlet pressure: 22 000 kPa (220 Bar)
- Outlet pressure : 400 kPa (4 Bar) and 600 kPa (6 Bar)

Explanation	Model No
W/o alarm 40 m ³ /h	GZ71.20
With alarm 40 m ³ /h	GZ71.21
W/o alarm 150 m ³ /h	GZ71.22
With alarm 150 m ³ /h	GZ71.23

- **Working Mode** : 2 stage, 2 regulators
- **Inlet dia** : 1/2"
- **Outlet dia** : 22 mm
- **Outlet pressure** : 4-6 bar
- **Automation** : Fully Automatic



Model No	Description
GZ71.47	Positive Pressure Sensor, max.10 bar
VK40.01	Vacuum Sensor, -1/0 bar
GZ71.49	High Pressure Reducer Sensor, Max.250 bar

Pressure Sensor

- Pressure sensors are used in digital alarm panels to detect the high and low pressure

Positive Pressure Transmitter Specs:

- Measurement range : 0 - 250bar
- Signal output : 4 - 20mA
- Mechanical connection : G 1/4 "
- Electrical connection : 2m
- Feeding voltage : 8 - 32V



High Pressure Reducer, Single Regulator

Inspital High Pressure Reducer provide safe pressure reduction of medical gases between the cylinders and the delivery system. It is designed to regulate line pressure between 6 to 4 bar. All components are degreased for oxygen use.

- Oxygen
- Nitrous Oxide
- Carbon dioxide
- Working Mode : 1 stage, 1 regulator
- Inlet dia : 1/2"
- Outlet dia : 22 mm
- Inlet pressure (max) : 220 bar
- Outlet pressure : 4-6 bar

Explanation	Model No
W/o alarm 100 m3/h	GZ70.10
With alarm 100 m3/h	GZ70.20
W/o alarm 35-40 m³/h	GZ70.30
With alarm 35-40 m3/h	GZ70.40



Cylinder Ramp

- Alternative models for connection of 1, 2, 3, 4 or 5 cylinders
- Made of galvanized steel, brass headers and copper pipe

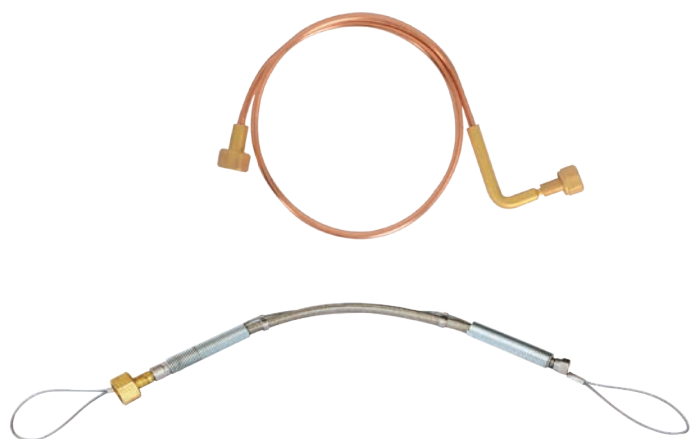
Explanation	Length mm	Model No
Single	180 mm	GZ71.29
Double	330 mm	GZ71.30
Triple	630 mm	GZ71.31
Quadruple	930 mm	GZ71.32
Quintuple	1230 mm	GZ71.33



Cylinder Fixing Chain

- Designed to fix the cylinders safely
- Alternative models for connection of 1, 2, 3, 4 or 5 cylinders

Explanation	Lenght mm	Model No
Single	180 mm	GZ71.34
Double	330 mm	GZ71.35
Triple	630 mm	GZ71.36
Quadruple	930 mm	GZ71.37
Quintuple	1230 mm	GZ71.38



Tail Pipe & Flexible Hose

- Used for connecting the cylinders to cylinder ramp
- Gas specific thread for O₂, N₂O, CO₂ and medical gas cylinders
- Nut diameter: 1/2"

Explanation	Gas Type	Cylinder nut dia	Model No
Tail Pipe 140 cm	Oxygen (bull-nose)	5/8 (Male)	GZ71.39
Tail Pipe 140 cm	Carbondioxide	Ø 21.8 mm, 1/14	GZ71.40
Tail Pipe 140 cm	Oxygen	3/4"	GZ71.41
Tail Pipe 140 cm	Nitrousoxide	3/8"	GZ71.42
Flexible Hose 60 cm	Oxygen (bull-nose)	5/8 (Male)	GZ71.43
Flexible Hose 60 cm	Carbondioxide	Ø 21.8 mm, 1/14	GZ71.44
Flexible Hose 60 cm	Oxygen	3/4"	GZ71.45
Flexible Hose 60 cm	Nitrousoxide	3/8"	GZ71.46



Flexible Connection
Model GZ71.94



Discharge Valve
Model GZ71.95

Flexible Connection Pipe

- Designed to connect ramp to ramp and ramp to manifold
- Made of chrome plated copper material
- Compatible with O₂ and N₂O gases

Discharge Valve

- Designed to be used for the gas discharge of medical gas stations
- Compatible with O₂ and N₂O gases
- Made of brass



Medical Gas Ball Valve:

- Designed and specially cleaned to use in medical gas system
- 16 bar pressure resistance

Pipe Dia.	Model No
10 mm	GZ71.50
12 mm	GZ71.51
15 mm	GZ71.52
22 mm	GZ71.53
28 mm	GZ71.54
35 mm	GZ71.55
42 mm	GZ71.56
54 mm	GZ71.57



Electrostatic Painted

Explanation	Under Plaster Version Model No	On Plaster Version Model No
With 1 gas w/o alarm	GZ71.58	GZ71.68
With 1 gas with alarm	GZ71.59	GZ71.69
With 2 gas w/o alarm	GZ71.60	GZ71.70
With 2 gas with alarm	GZ71.61	GZ71.71
With 3 gas w/o alarm	GZ71.62	GZ71.72
With 3 gas with alarm	GZ71.63	GZ71.73
With 4 gas w/o alarm	GZ71.64	GZ71.74
With 4 gas with alarm	GZ71.65	GZ71.75
With 5 gas w/o alarm	GZ71.66	GZ71.76
With 5 gas with alarm	GZ71.67	GZ71.77



Area Gas Control Panels

Description

Inspital Area Gas Control Unit is manufactured to provide isolation of individual floors of medical gases in the hospital. Area Gas Control Unit include all features required by the EN ISO 7396-1 and HTM 02-01 standards. Isolation may be required for installation, maintenance or in the event of an emergency.

Classification

- Area Gas Control Unit is manufactured HTM 02-01, HTM 2022, EN ISO 7396-1 and BS EN 15908.

Services

- Oxygen
- Nitrous Oxide
- Medical Air 400 kPa
- Surgical Air 700 kPa
- Medical Vacuum

Area Gas Control Unit

- Controls 1 to 5 gases, including vacuum
- Lockable covers with emergency access lock system
- Window on the cover enables the user to monitor the analog manometers without opening the covers
- Under plaster and on plaster types are available

Alarm Unit

- Local Area Alarm

Pressure Switches

- Pressure switches can be fitted inside the box to enable local monitoring.

Stainless Steel

Explanation	Under Plaster Version Model No	On Plaster Version Model No
With 1 gas with alarm	GZ71.83	GZ71.88
With 2 gas with alarm	GZ71.84	GZ71.89
With 3 gas with alarm	GZ71.85	GZ71.90
With 4 gas with alarm	GZ71.86	GZ71.91
With 5 gas with alarm	GZ71.87	GZ71.92



Digital Alarm Panels

Inspiral Medical Gas Alarm panel monitor the medical gas source equipment and the operating pressures in the pipeline distribution system, as well as, the critical care areas of the facility to ensure that the medical gas and vacuum systems remain safe for patient use.

Inspiral Digital Alarm Panel is designed and manufactured in compliance with HTM2022, HTM 02-01, C11, BS EN 60601-1-2 and BS EN ISO 7396-1.

Sensor-mounted alarm panel displays can be displayed on the computer and other panels without sensor by RS232 communication protocol.

Capacity	Model No
Single Gas (P/V)	GZ71.78
Double Gas (P/V), (P/P)	GZ71.79
Triple Gas (P/P/V), (P/P/P)	GZ71.80
Five Gas	GZ71.81



Central Alarm Panels

Designed to be used in Oxygen Nitrous Oxide Stations

Controls the values of central gas systems

Audible and visual alarms in case of pressure problems

The panel works with two high pressure switch and one positive pressure sensor to detect pressure changes

Sensors and switches are not included

Model: GZ71.93

Anaesthetic Gas Scavenging System,
Single and Double



Anaesthetic Gas Scavenging (AGS) Systems are designed to remove from the environment anesthetic gas mixture formed in the operating room. The Anaesthetic Gas Scavenging (AGS) System shall comply with HTM 02-01, Hospital Anaesthetic Gas Scavenging Systems are according to CE marked to the Medical Device Directive 93/42/EEC. Anaesthetic Gas Scavenging Plant is classified as Class IIa Medical Devices. Single and duplex blower versions are available

Blowers are oil-less, air cooled side channel regenerative type and suitable for both continuous operation.

Capacity	68 m ³ /h	120 m ³ /h
Power	0,76 kW	1,3 kW
Noise Level	63 dB (A)	66 dB (A)
Inlet dia	1"	1/22"
Outlet dia	Ø 44	Ø 60
Weight	45 kg	55 kg
Model No	VK50.01	VK50.02



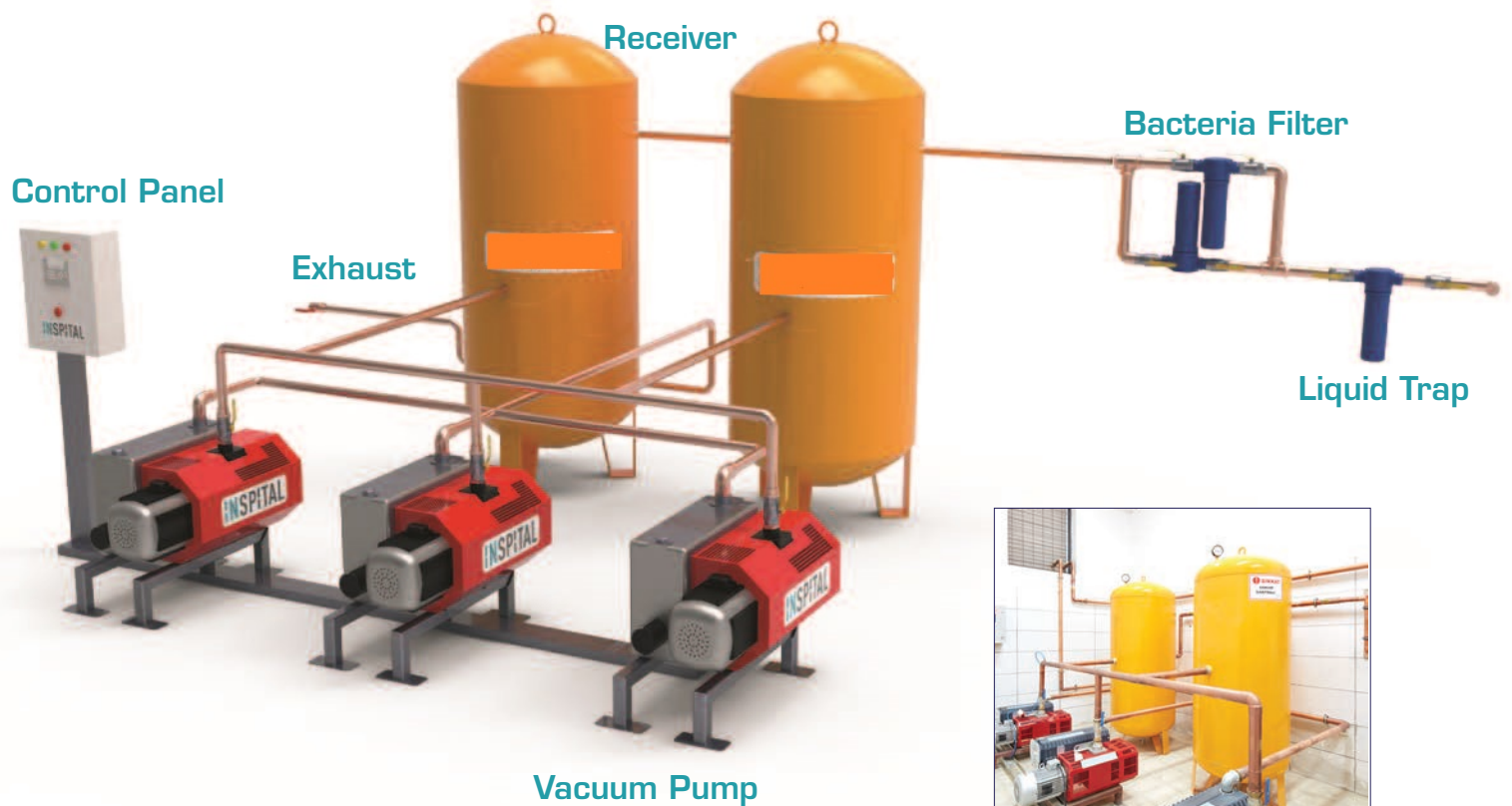
Capacity	2x68 m ³ /h	2x120 m ³ /h
Power	2x0,76 kW	2x1,3 kW
Noise Level	63 dB (A)	66 dB (A)
Inlet dia	1" 1/2	2"
Outlet dia	Ø 44	Ø 60
Weight	120 kg	140 kg
Model No	VK50.03	VK50.04

Medical Vacuum Station

Medical Vacuum is an essential requirement of the supply system for medical gases in hospitals. Inspital develops and manufactures fully automatic, stable and highly reliable vacuum stations which are used to aspirate fluids in the operating theatres, on ICU and on regular patient rooms.

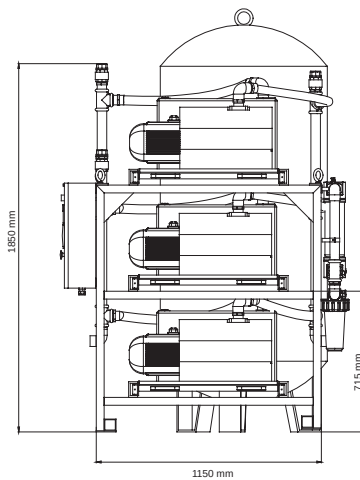
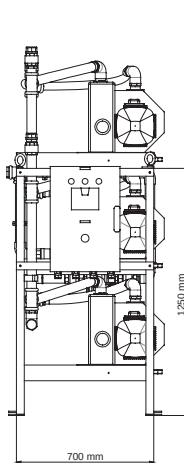
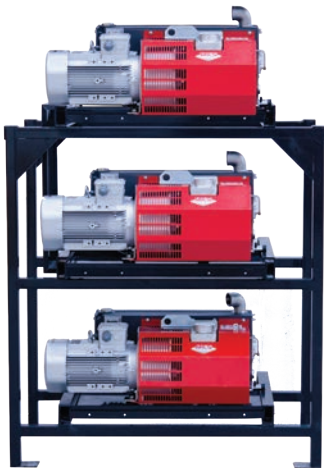
Inspital Medical Vacuum Plants are designed and manufactured in compliance with HTM 02-01, HTM 2022, MDD 93/42/EEC, EN ISO 7396-1 and C11 standards.

- Station is fully controlled by PLC system. This system enables equal aging of vacuum pumps which means a much longer operating life time
- Protected by bacterial filters
- Equipped with lubricated rotary vane vacuum pumps

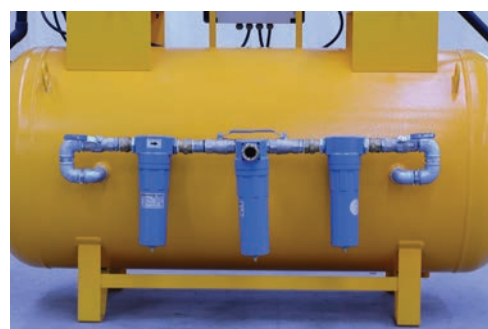


VAC Plus Vertical – Central Vacuum Station

- Designed to be used for central vacuum systems in operating theatres, ICUs, emergencies and laboratories of hospitals
- PLC controlled full automatic system
- Compact and modular design
- Medical type high efficiency bacteria filters
- Lubricated rotary vane vacuum pumps
- Sliding shelves enables easy access for maintenance



Model No	VK40.02	VK40.03	VK40.04	VK40.05	VK40.06	VK40.07
System Capacity (m3/h) (50 hz)	47x2	47x3	100x2	100x3	200x2	200x3
Power (kW) (50 Hz)	1,10x2	1,10x3	2,20x2	2,20x3	4,00x2	4,00x2
Pump Qty	2	3	2	3	2	3
Tank Capacity	500	500	1000	1000	1500	1500
Bactery Filter Qty	1 pc	1 pc	1 pc	2 pc	2 pc	2 pc
Liquid Trap	1 pc	1 pc	1 pc	1 pc	1 pc	2 pc
Inlet hose dia.	1"	1"	1"1/4	1"1/4	2"	2"
Outlet hose dia.	1"	1"	1"1/2	1"1/2	2"	2"
Bed Qty	70	50-90	90-180	150-200	160-300	160-350



VAC Plus Compact – Central Vacuum Station

- Designed to be used for central vacuum systems in operating theatres, ICUs, emergencies and laboratories of hospitals
- PLC controlled full automatic system
- Compact tank top design
- Suitable for low height medical gas plant rooms
- Medical type high efficiency bacteria filters
- Lubricated rotary vane vacuum pumps

Model No	VK40.08	VK40.09	VK40.10	VK40.11	VK40.12	VK40.13
System Capacity (m3/h (50hz)	47x2	47x3	100x2	100x3	200x2	200x3
Power (kW) (50 Hz)	1,10x2	1,10x3	2,20x2	2,20x3	4,8x2	4,8x3
Pump Qty	2	3	2	3	2	3
Tank Capacity	500	500	1000	1000	1000	1000
Bactery Filter Qty	1 pc	1 pc	1 pc	2 pcs	2 pcs	2 pcs
Liquid Trap	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc
PLC Qty	1	1	1	1	1	1
Inlet hose dia.	1"	1"	1"1/4	1"1/4	2"	2"
Outlet hose dia.	1"	1"	1"1/2	1"1/2	2"	2"
Bed Qty	70	50-90	90-180	150-200	160-300	160-350



Mini Vacuum Station

- Compact and independent ready-to-run vacuum plant
- Lubricated rotary vane vacuum pump
- Standard suction network inlet
- Bacteria filter with aspiration (optional)
- Bacteria box discharge (optional)

Model No	VK40.14
Nominal Capacity (m3.h-1) 50 Hz	25
Power (kW) 50 Hz	0,75
Tank Capacity (L)	70
Noise Level dB (A)	60
Oil Capacity(L)	1,5
Weight (kg)	85



Mini Vacuum Station

- Mobile and independent ready-to-run vacuum plant
- Oil-less vacuum pump
- Standard suction network inlet
- Bacteria filter with aspiration (optional)
- Bacteria box discharge (optional)

Model No	VK40.15
Nominal Capacity (m3.h-1) 50 Hz	2x10
Power (kW) 50 Hz	2x0,35
Tank Capacity (L)	70
Noise Level dB (A)	60
Oil Capacity(L)	1,5
Weight (kg)	85

Vacuum Pumps

The lubricated rotary vane pumps VPS are designed to be used in a wide range of industrial and healthcare applications. They can run continuously from atmospheric pressure to ultimate vacuum.

They are very silent and extremely robust.

- Specially designed for medical applications
- Stable and longlife pumps
- Lubricated rotary vane vacuum pumps
- Single stage vacuum pump
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust
- Pumps can run continuously from atmospheric pressure to ultimate vacuum
- Silent and very robust pumps



Model No	Nominal Flow		Maximum Pressure				Motor Power		Rotation Speed		Noise Level	Oil Capacity	Weight
	m³.h ⁻¹		Hava Balastsız		Hava Balastlı		Kw		Rpm				
	50 Hz	60 Hz	mbar	kPa	mbar	kPa	50 Hz	60 Hz	50 Hz	60 Hz			
VK40.16	30	35.3	0,5	0,05	1,5	0,15	0,75	0,9	1435	1690	60	1,5	39
VK40.17	47.7	56	0,5	0,05	1,5	0,15	1,1	1,32	1430	1715	62	1,5	52
VK40.18	64.3	72.2	0,5	0,05	1,5	0,15	1,5	1,8	1420	1705	64	4	75
VK40.19	96	115	0,5	0,05	1,5	0,15	2,2	2,70	1440	1730	65	4	85
VK40.20	132	156	0,1	0,01	1,2	0,12	3	3,6	970	1150	66	5	154
VK40.21	198	240	0,1	0,01	1,2	0,12	4	4,8	1455	1765	67	5	140
VK40.22	293	354	0,1	0,01	1,2	0,12	5,5	6,6	1450	1740	69	5	162



PLC Control Panel

- Hospital PLC panels are fully automatic digital control units
- They are designed to control multiple vacuum pumps of central vacuum stations.
- It enables equal aging of pumps and longer lifetime for the vacuum stations

Pump Type	Capacity m3/h	Dimensions	Model No
Single	25 - 40	350x160x530 mm	VK40.23
Double	65 - 100	350x160x530 mm	VK40.24
Triple	150 - 200	350x160x530 mm	VK40.25



Bacteria Filter Set

- 100 m3/h flow capacity
- Integrated by-pass valves and discharge system
- Bacteria filtration of 30 micron

Pump Type	Model No
Single	VK40.26
Double	VK40.27



Liquid Trap

- High efficiency trap designed to drain liquids in vacuum pipeline
- 1.5 L capacity
- Inlet and outlet valves included

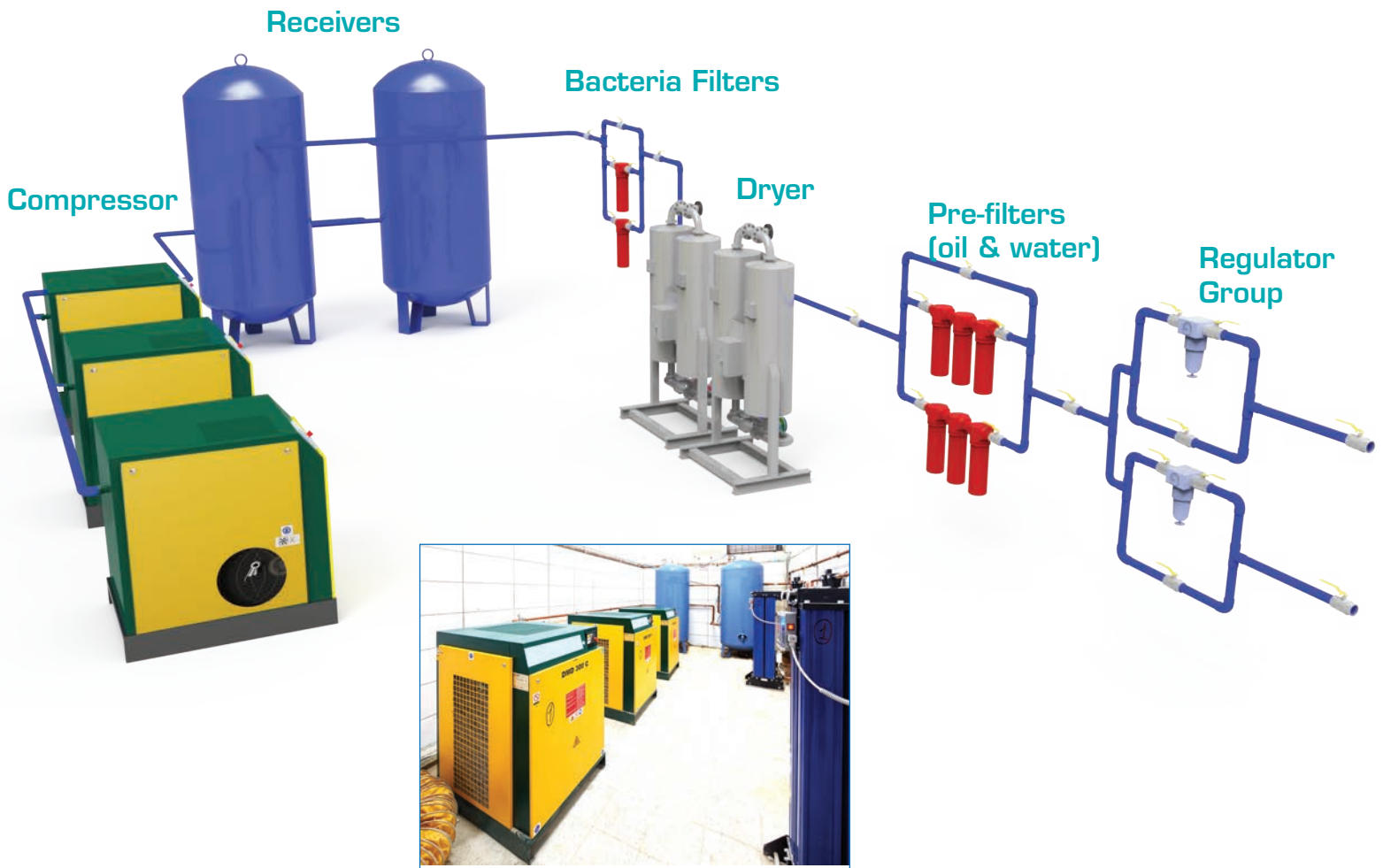
Model: VK40.28



Vacuum Tank

- Designed to use in central vacuum stations
- Different capacities for different stations
- Vertical or horizontal types available
- Made of highly durable steel material

Capacity (L)	Wall Thickness	Diameter	Length	Model No
500 L	5 mm	630 mm	1800 mm	VK40.29
750 L	5 mm	750 mm	1800 mm	VK40.30
1000 L	6 mm	850 mm	1920 mm	VK40.31
1500 L	6 mm	1100 mm	2200 mm	VK40.32



Medical Air

Medical air is mainly supplied via a medical gas pipeline system where the air is manufactured by compressors, dryers and filtration system.

A hospital's medical air supply is a vital life support service, maintaining respiration of the critically ill patients during mechanical ventilation.

The main uses of medical air in the hospital are:

- Driving ventilators and incubators, where it provides uncontaminated and controlled air flows helping to reduce high concentration of oxygen exposure,
- As a carrier gas for anaesthetic agents
- As a power source for driving surgical tools in the operating theatre

Inspital Medical Air Plants are designed and manufactured according to ISO 13485 Quality Management System and comply with MDD 93/42/EEC.

Medical Air Plant with Rotary Screw Compressors

Medical Air Plant is designed to provide a continuous supply of medical quality air. Medical air is mainly supplied via a medical gas pipeline system where the air is manufactured by compressors, dryers and filtration system.

Inspital Medical Air plant with rotary screw compressors can be used in wide capacity range. Compressor capacities varies from 4 kW to 22 kW. High quality screw blocks with perfect lubrication systems enables continous operation, stability and reliability.

Inspital can offer different capacities according to hospital consumption and bed capacity.

Inspital Medical Air Plants are designed and manufactured in compliance with HTM 02-01, HTM 2022, MDD 93/42/EEC, EN ISO 7396-1, ISO 13485:2003 and C11 standards.



Model No	Compressor qty x capacity	Compressor Type	Dryer qty x capacity	Tank Capacity
GZ80.01	1x33 m³/h	Screw Type	53 m³/h	300 L
GZ80.02	2X33 m³/h	Screw Type	53 m³/h	500 L
GZ80.03	1X72 m³/h	Screw Type	100 m³/h	500 L
GZ80.04	2X72 m³/h	Screw Type	100 m³/h	1000 L
GZ80.05	2X110 m³/h	Screw Type	100 m³/h	1000 L
GZ80.06	3X110 m³/h	Screw Type	2x100 m³/h	1500 L
GZ80.07	2X147 m³/h	Screw Type	155 m³/h	2X1000 L
GZ80.08	3x147 m³/h	Screw Type	2x155 m³/h	2X1000 L
GZ80.09	2X216 m³/h	Screw Type	210 m³/h	2X1000 L
GZ80.10	3X216 m³/h	Screw Type	2x210 m³/h	2X1000 L

Medical Air Plant with Oil-Free Compressors

Hospital allows medical air plants with high technology oil-free compressors.

These new generation compressors are reliable compact, silent and delivers of producing oil free compressed air. As compressors are designed for continuous operation, it is very reliable and efficient with low maintenance cost. Because of it is compact design, installation is easy and air evacuation is smooth as it doesn't include any oil.



Model No	Compressor qty x capacity	Compressor Type	Dryer qty x capacity	Tank Capacity
GZ80.11	1X109 m ³ /h	Oil Free	1X100 m ³ /h	1500 L
GZ80.12	2x109 m ³ /h	Oil Free	1X100 m ³ /h	1500 L
GZ80.13	3x109 m ³ /h	Oil Free	2X100 m ³ /h	2x1000 L
GZ80.14	1x158 m ³ /h	Oil Free	1x190 m ³ /h	2x1000 L
GZ80.15	2x158 m ³ /h	Oil Free	1x190 m ³ /h	2x1000 L
GZ80.16	3x158 m ³ /h	Oil Free	2x190 m ³ /h	2x1500 L
GZ80.17	1x213 m ³ /h	Oil Free	1x210 m ³ /h	2x1000 L
GZ80.18	2X213 m ³ /h	Oil Free	1x210 m ³ /h	2x1500 L
GZ80.19	3X213 m ³ /h	Oil Free	2x210 m ³ /h	2x1500 L

OIL FREE 

Oil-less system provides 100% oil-less air and it has low noise level for hospital environment.

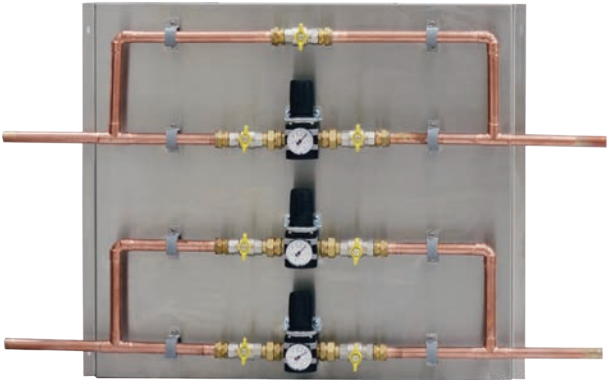
Due to not to inject of oil to the air, there is no need to invest for the purification of waste water. This is the best way to protect the environment.



Compressed Air Tank

- Made of ST-37 steel
- Operating pressure at 15 atm
- Manufactured and tested according to BS EN 286-1:1998+A2:2005 standards

Model No	GZ82.01	GZ82.02	GZ82.03	GZ82.04
Capacity (L)	300	500	1000	1500
Test Pressure	15 bar			
Trunk (st-37)	(st-37)			
Inlet	1 1/2"			



Compressed Air Regulator Group

- Air Regulator Group is the final regulation process of the air coming from the compressed air station.
- It is used to regulate the air pressure to required level (4 bar or 7 bar)

Model No	GZ82.05	GZ82.06
Capacity(m3/h)	100	200

Oxygen Production Systems

Hospital Oxygen Generators are new generation stations that allows on-site production of oxygen. This helps hospitals to supply oxygen from their own automated system independently. These systems are generally combined with cylinder systems for instant back up.

Hospital Oxygen Generators deliver oxygen in a purity up to 95% at flow rate from 3 to 100 m³/h. Station delivers constant purity rate independent from the consumption. Ideal system consist of air compressors, dryers, O₂ generator, active carbon tower, tanks and filters.



Model No	O ₂ Generator Capacity	Compressor Capacity(m ³ /h)	Compressor Type	Air Tank Capacity	Tank Capacity	Dryer Capacity
GZ81.01	3 m ³ /h	7,5 kw/(0,92 m ³ /h)	Screw Type	500 L	500 L	CAD 30
GZ81.02	6 m ³ /h	11 kw/(1,40 m ³ /h)	Screw Type	500 L	500 L	CAD 52
GZ81.03	9 m ³ /h	22 kw/(3,2 m ³ /h)	Screw Type	1000 L	1000 L	CAD 61
GZ81.04	12 m ³ /h	22 kw/(3,2 m ³ /h)	Screw Type	1000 L	1000 L	CAD 61
GZ81.05	15 m ³ /h	30 kw/(4,4 m ³ /h)	Screw Type	1000 L	1000 L	CAD 110
GZ81.06	18 m ³ /h	30 kw/(4,4 m ³ /h)	Screw Type	1000 L	1000 L	CAD 110
GZ81.07	20 m ³ /h	30 kw/(4,4 m ³ /h)	Screw Type	1000 L	1000 L	CAD 110
GZ81.08	25 m ³ /h	30 kw/(4,4 m ³ /h)	Screw Type	1000 L	1000 L	CAD 110
GZ81.09	30 m ³ /h	45 kw/(6,2 m ³ /h)	Screw Type	1000 L	1000 L	CAD 170
GZ81.10	40 m ³ /h	55 kw/(9,2 m ³ /h)	Screw Type	2000 L	1500 L	CAD 200
GZ81.11	50 m ³ /h	75 kw/(10,6 m ³ /h)	Screw Type	2000 L	1500 L	CAD 250



Cryogenic Oxygen Stations

Main components of the Cyrogenic Oxygen Stations are liquid oxygen (LOX) storage tanks and evaporation systems.

LOX tanks are specially designed according to EN 13458 – Annex C for long term storage of cryogenic liquified gases under pressure.

- Manufactured according to 2014/68/EU Pressure Equipment Directive (PED) , EN 13458, AD 2000 Code, ASME (U STAMP) and GOST
- Designed to ensure stability
- High quality painting
- Max Working Pressure : 22 - 24 bar
- Design Temperature : -40 °C / +60 °C
- Inner Vessel Material : Carbon, Stainless Steel in accordance with design codes
- External Vessel Material : Carbon, Stainless Steel or Aluminum in accordance with design codes

Model No	Storage Capacity	Sizes (Lxwxh)
GZ90.05	5M³	4780 x 2220 x 2400 mm
GZ90.10	10M³	7245 x 2350 x 2310 mm
GZ90.15	15M³	6950 x 2750 x 2795 mm
GZ90.30	30M³	12360 x 2400 x 2850 mm
GZ90.50	50M³	13500 x 3000 x 3000 mm



MEDICAL GAS SYSTEMS

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