



INSPITAL Medical Gas Stations & Control Units

INSPITAL offers complete solution for the medical gas system of hospitals. All the system consist of medical gas generators, manifolds, pipeline system, area control units, alarm systems, monitoring screens and the final gas outlets in Operating

Theatres, ICU's and patient rooms

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CENTRAL GAS STATIONS & MANIFOLDS

INSPITAL central gas stations are designed to supply continuous

medical gas from the cylinders to hospital pipeline.

Electronically controlled manifold system reduces the cylinder pressure to required level.

Each station controls one primary and one back up cylinder racks and switches between them without interrupting the continous flow



AREA GAS CONTROL PANELS

INSPITAL Area Gas Control Unit is manufactured to provide isolation of individual floors of medical gases in the hospital.

Area Gas Control Unit includes all features required by the EN ISO 7396-1 and HTM 02-01 standards.

Isolation may be required for installation, maintenance or in case of an emergency

VACUUM STATIONS

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 airways in the operating theatres, on ICU and on regular patient rooms

Central Gas Station for O2, N2O and CO2



INSPITAL central gas stations are designed to supply continuous medical gases like Oxygen, Nitrous Oxide, Entonox, Medical Air, Carbon Dioxide and Nitrogen from the cylinders to hospital pipeline. Each station controls one primary and one back up cylinder racks

The two stage regulation system, utilizing separate regulating units for each stage of pressure regulation, offers higher flow rates and smoother flow rate curve.

Station switches to back up system automatically when the pressure of primary rack is dropped.

Station is equipped with non-return valves in order to prevent discharge of the gas in the cylinders during the replacement or in case of leakage from the pipeline.

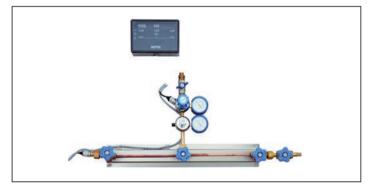
All pressure data and failure alarms are controlled by the digital control panel.

Oxygen Station	Model No	GZ71.01	GZ71.02	GZ71.03	GZ71.04	GZ71.05	GZ71.06	GZ71.07
Nitrousoxide Station	Model No	GZ71.10	GZ71.11	GZ71.12	GZ71.13	GZ71.14	GZ71.15	GZ71.16
High Pressure Redu	icer 150 m³/h	-	-	1 pc	1 pc	1 pc	1 pc	1 pc
High Pressure Redu	ıcer 40 m³/h	1 pc	1 pc	-	-	-	-	-
Cylinder Fixing Chair	n, Triple	2 pcs	4 pcs	4 pcs	6 pcs	8 pcs	10 pcs	14 pcs
Tail pipe & flexible H	lose	6 pcs	12 pcs	12 pcs	18 pcs	24 pcs	30 pcs	42 pcs
Flexible Connection		2 pcs	4 pcs	4 pcs	6 pcs	8 pcs	10 pcs	14 pcs
Ramp Triple			4 pcs	4 pcs	6 pcs	8 pcs	10 pcs	14 pcs
Discharge Valve		2 pcs						
Oxygen / Nitrousox Alarm panel	ide Station	Including the High Pressure Regulators (1 pc)						
Cylinder Quantity on	Station	2x3 pcs	2x6 pcs	2x6 pcs	2x9 pcs	2x12 pcs	2x15 pcs	2x21 pcs
Bed Quantityx*		30	50	30-50	40-70	70-100	100-150	150-200
Total Operating The (N20 Central)	atre No.*	3	5	5 - 6	6 - 7	6 - 9	8-12	10-14
Total Station Weight	t(~)	35 kg	48 kg	58 kg	85 kg	90 kg	120 kg	150 kg

^{*} Bed and Operating Room Numbers are given approximately

Emergency Reserve Manifolds

Oxygen Station	Model No	GZ71.09	GZ71.08
Nitrousoxide Station	Model No	GZ71.18	GZ71.17
High Pressure Reducer 40 m³/h		1 рс	1 pc
Cylinder Fixing Chain,		2 pcs	4 pcs
Flexible Connection Pipe		2 pcs	4 pcs
Discharge Valve		1 рс	1 pc
Cylinder Quantity on Station		2 pcs	4 pcs
Bed Quantity		5-10	8-12
Total Station Weight(~)		15 kg	18 kg



GZ71.09 - GZ71.18

INSPITAL emergency reserve menifolds includes a two stage regulation system, utilizing separate regulating units for each stage of pressure regulation, offers smooth & continous flow in case of an emergency.

Isolation valves are included at each manifold header connection such that one cylinder bank can be online with the other bank closed off during normal system operation, for complience with HTM O2-O1 standards







Explanation	Model No
W/o alarm 40 m³/h	GZ71.20
With alarm 40 m³/h	GZ71.21
W/o alarm 150 m³/h	GZ71.22
With alarm 150 m ³ /h	GZ71.23

• Manifold Type : 2 stage, 2 regulators

Inlet dia : 1/2"
Outlet dia : 22 mm
Outlet pressure : 4-5 bar

• Automation : Fully Automatic

Manifold System with Double Regulator

Inspital Automatic Changeover Manifold is designed to provide a continuous supply of Oxygen, Nitrous Oxide, Carbon Dioxide in healthcare facilities. The manifold consists of two banks of cylinders located 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 O2-O1, MDD 93/42/EEC, EN ISO 7396-1 and ISO 13485 standards

Features

- Special black ABS cover protection against evironmental factors
- Designed to ensure continuous and accurate gas supply
- It is designed according to the principle of continuous transfer functionality. So during exchange of the cylinders,gas supply won't be interrumpted.
- Alternative station capacities depending on the type of gas used and the distance
- Fully removable cover for easy access to internal components
- Easy to reach alarm panel connections

Optional Accessories

- Emergency reserve manifold
- Heater Kits
- Isolation valve and test gas outlet
- Spare cylinder racks



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 high and low pressure

Positive Pressure Transmitter Specs:

Measurement range
 Signal output
 Mechanical connection
 Electrical connection
 Feeding voltage
 O - 250bar
 4 - 20mA
 5 1/4 "
 2m
 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 5 to 4 bar. All components are degreased for oxygen use.

• Gases : Oxygen, Nitrous Oxide, Carbon Dioxide

• Working Mode : 2 stage, 1 regulator

Inlet dia : 1/2"
Outlet dia : 22 mm
Inlet pressure (max) : 220 bar
Outlet pressure : 4-5 bar

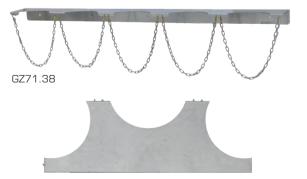
Explanation	Model No
W/o alarm 100 m³/h	GZ70.10
With alarm 100 m ³ /h	GZ70.20
W/o alarm 40 m³/h	GZ70.30
With alarm 40 m ³ /h	GZ70.40



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	280 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	580 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
- $\bullet~$ Gas specific thread for ${\rm O_2},~{\rm N_2O},~{\rm CO_2}$ 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 Hose 60 cm	Oxygen (PIN INDEX)	-	GZ71.96
Flexible Hose 60 cm	N ₂ 0 (PIN INDEX)	-	GZ71.97







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



- Designed and specially cleaned to use in medical gas system
- Optional lock and nist connection
- %100 corrosion proof design, no painted steel or sacrificial
- Break out plastic window provides safe access in an emergency



Pipe Dia.	Ball Valve With Box Model No	Ball Valve Model No	Working Pressure (bar)
10 mm	GZ71.50	GZ81.50	78
12 mm	GZ71.51	GZ81.51	64
15 mm	GZ71.52	GZ81.52	55
22 mm	GZ71.53	GZ81.53	50
28 mm	GZ71.54	GZ81.54	40
35 mm	GZ71.55	GZ81.55	40
42 mm	GZ71.56	GZ81.56	35
54 mm	GZ71.57	GZ81.57	27
76 mm	GZ81.58	GZ81.59	16





Explanation

Electrostatic Painted

With 1 gas w/o alarm

With 1 gas with alarm

With 2 gas w/o alarm



Electrostatic Painted

On Plaster Version

Model No

G771.68

GZ71.69

GZ71.70

0774 74

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 includes all features required by the EN ISO 7396-1 and HTM 02-01 standards. Isolation may be required for installation, maintenance or in the case of an emergency

Classification

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

Services

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

Feartures

- 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 avaliable

vviui 2 gas wiui alaitii	GZ/ 1.0 I	GZ/1./1
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

Under Plaster Version

Model No

GZ71.58

GZ71.59

GZ71.60

0774 04

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

Alarm Unit

• Local Area Alarm

Pressure Switches

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

Area Gas Control Panels With Second Stage Regulator

- Second stage pressure reducing from 10 bar to 7 bar or 4 bar
- Lockable covers with emergency access lock system
- Stainless steel valve box
- Double or single regulators option
- Under plaster and on plaster types are avaliable

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







Digital Alarm Panels

Inspital 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.

Inspital 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 monitored on the computer and other panels by RS232

Capacity	Analog Model No
Single Gas	GZ71.78
Double Gas	GZ71.79
Triple Gas	GZ71.80
Four Gas	GZ71.80F
Five Gas	GZ71.81



Central Alarm Panels

Designed to be used in central gas station manifold systems Audible and visual alarms in case of pressure problems The panel works with two high pressure switches and one positive pressure sensor to detect pressure changes Sensors and switches are not included

Model: GZ71.93





MEDICAL GAS ALARM MANAGEMENT SYSTEM

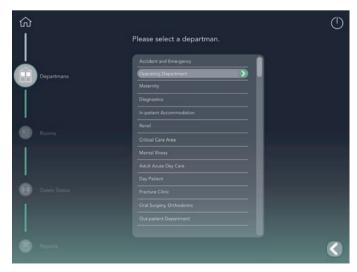
INSPITAL developed an automation system which allows users to monitor all running medical gas system of the hospital.

Monitoring system collects all datas from the alarm panel of central vacuum system, medical air system, manifold system and area control panels. All those instant datas can be displays it on specified touch monitor, any computer in related departments or by the technicians.

All stations or specified stations can be monitored instantly. System records all signals of operating and emergency alarms. Alarms are monitored both visually and audible indicators.

The Alarm Management System makes sure that technical and clinical personnel are kept informed about the status of the central gas supply at all times. It monitors the GMS in all areas and records all signals such as operating and emergency alarms







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.

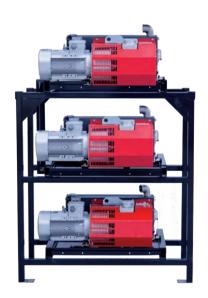
- Station is fully controlled by PLC system. This system enables equal aging of vacuum pumps which means a much longer operating life time
- Protected by bacterial filters
- Equipped with lubricated rotary vane vacuum pumps





Vertical Type- 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 enable 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 (L)	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	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

Tank Mounted - Central Vacuum Station

- Designed to stand alone assemblies with all components and filters mounted on a single horizontal vessel
- PLC controlled full automatic system
- Compact tank top design
- Suitable for low height medical gas plant rooms
- Specifically designed for ease of installation



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 (L)	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					
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



PLC Control Panel

- Inspital 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	Capacity m3/h Dimensions	
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 avaliable
- 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







Maintenance Kits

Usual maintenance (EC): 3 000 hours or 24 months

- Inspection / cleaning
- Oil change
- Oil filter replacement
- Oil separating cartridge(s) change
- Inlet valve overhaul
- Gas ballast filter change

Vacuum Pumps

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

- 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
- Options; Oil level switch, PT100 temperature sensor





• Options; Oil level switch, PT100 temperature sensor

Maintenance Kits

Preventive maintenance (MP): 12 000 hours

- Radial shaft seals change
- Sliding rings change
- Vanes replacement*
- End cover gaskets replacement
- Automatic drain + gaskets replacement
- Rubber feet replacement
- · Coupling ring overhaul

Model No		nal Flow	Moto	Motor Power		3 000 hours or 24 months, Maintenance Kits	12 000 hours Maintenance Kits	
	m ³ .h ⁻¹		Kw			Wallicellance Nics		
	50 Hz	60 Hz	50 Hz	60 Hz	kg	Model no	Model no	
VK40.16	30	35.3	0,75	0,9	39	VK40.46	VK40.56	
VK40.17	47.7	56	1,1	1,32	52	VIV40.40	VIX-0.00	
VK40.18	64.3	72.2	1,5	1,8	75	VK40.48	VK40.58	
VK40.19	96	115	2,2	2,70	85	VK40.49	VK40.59	
VK40.20	132	156	3	3,6	154	VK40.50	VK40.60	
VK40.21	198	240	4	4,8	140	VK40.51	VK40.61	
VK40.22	293	354	5,5	6,6	162	VK40.52	VK40.62	



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)
- Liquid trap (optional)

Model No	VK40.14	VK40.15
Nominal Capacity (m³.h-1) 50 Hz	25	2x10
Power (kW) 50 Hz	0,75	2x0,35
Tank Capacity (L)	70	70
Noise Level dB (A)	60	60
Oil Capacity(L)	1,5	1,5
Weight (kg)	85	85



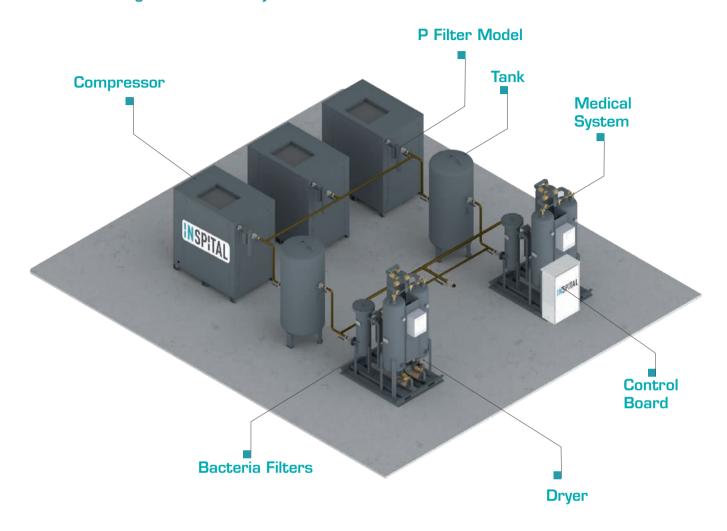
Anaesthetic Gas Scavenging System, Single and Double

Anaesthetic Gas Scavenging the Systems AGSS are designed to remove anesthetic gas mixture formed in the operating room. Inspital AGSS systems are CE marked according to MDD 93/42/EEC and comply with HTM 02-01. Anaesthetic Gas Scavenging Plant is classified as Class IIa Medical Devices.

Single and duplex blower versions are avaliable Blowers are oil-free, air cooled side channel regenerative type and suitable for continuous operation.

Model No	VK50.01	VK50.02	VK50.03	VK50.04	
Capacity	80 m³/h	130 m³/h	2x80 m³/h	2x130 m ³ /h	
Power	r 0,76 kW 1,3		2x0,76 kW	2x1,3 kW	
Noise Level	63 dB (A)	66 dB (A)	63 dB (A)	66 dB (A)	
Inlet dia	Inlet dia 1"		1" 1/2	2"	
Outlet dia	utlet dia Ø 44		Ø 44	Ø 60	
Weight	45 kg	55 kg	120 kg	140 kg	

Medical & Surgical Air Plant Systems



Medical Air

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

In the hospitals 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 hospitals 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 desined and manufactured according to ISO 13485 Quality Management System and comply with MDD 93/42/EEC.



Medical Compressed Air

Medical Compressed air is a widely used gas in hospitals. Therefore, the requirements and quality standards are high. Medical compressed air is important for the ventilation of ICU patien the most important medical gas other than oxygen. International standards such as EN ISO 7396-1 and the European Pharmacopoeia guarantee the continuity of medical compressed air and ensure that quality control is carried out regularly. In addition, it defines the limit values that the medical air must have. With INSPITAL Medical Compressed Air Stations, we ensure that you obtain quality air according to EN ISO 7396-1 and European Pharmacopoeia.

Contamination	European Pharmacopoeia
02	20.4% <x<21.4%< td=""></x<21.4%<>
CO2	<500 ppm
CO	<5 ppm
S02	<1 ppm
NO	<2 ppm
N02	<2 ppm
H20	<67 ppm
Oil vapor	<0.1 mg/m3

Medical Air System

Model No	Compressor Capacity	Compressor Pcs	Compressor Type	Tank Capacity	Medical Gas System	Operating Temperature	Bed Quantitiy
GZ80.20	78 m³/h	3	Screw Type	2x300 L	2	(+10) - (+50) C°	50-100
GZ80.21	115 m³/h	3	Screw Type	2x500 L	2	(+10) - (+50) C°	100-150
GZ80.22	168 m³/h	3	Screw Type	2x1000 L	2	(+10) - (+50) C°	150-200
GZ80.23	235 m³/h	3	Screw Type	2x1000 L	2	(+10) - (+50) C°	200-250
GZ80.24	276 m³/h	3	Screw Type	2x1500 L	2	(+10) - (+50) C°	250-300
GZ80.25	420 m³/h	3	Screw Type	2x2000 L	2	(+10) - (+50) C°	300-500





Technical Air System

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 generated 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 2.2 kW to 37 kW. High quality screw blocks with perfect lubrication systems enable continuous operation, stability and reliability. At technical air solutions offers compressed air dryers with +3-5 C° dew point temperature. Inspital can offer different capacities according to hospital consumption and bed capacity.

Model No	Compressor Capacity	Compressor Type	Dryer Capacity	Tank Capacity	Operating Temperature	Bed Quantitiy
GZ80.01	1x39 m³/h	Screw Type	1x50 m³/h	300 L	(+10) - (+50) C°	20-50
GZ80.02	2x39 m³/h	Screw Type	1x50 m³/h	300 L	(+10) - (+50) C°	20-50
GZ80.03	1x84 m³/h	Screw Type	1x87 m³/h	500 L	(+10) - (+50) C°	50-100
GZ80.04	2x84 m³/h	Screw Type	1x87 m³/h	500 L	(+10) - (+50) C°	50-100
GZ80.05	1x117 m³/h	Screw Type	1x130 m³/h	1000 L	(+10) - (+50) C°	100-150
GZ80.06	2x117 m³/h	Screw Type	2x130 m³/h	1000 L	(+10) - (+50) C°	100-150
GZ80.07	1x168 m³/h	Screw Type	1x170 m ³ /h	1500 L	(+10) - (+50) C°	150-200
GZ80.08	2x168 m³/h	Screw Type	2x170 m ³ /h	1500 L	(+10) - (+50) C°	150-200
GZ80.09	1x210 m³/h	Screw Type	1x283 m³/h	2X1000 L	(+10) - (+50) C°	200-250
GZ80.10	2x210 m³/h	Screw Type	2x283 m³/h	2X1000 L	(+10) - (+50) C°	200-250



Air Compressors

- Quiet and efficient axial fan directly connected to main motor
- Additional axial fan with temperature control
- Compact, small footprint, easy to service.
- Compressor capacity 21 324 m³ / h
- Integrated PLC control until 2 compressor



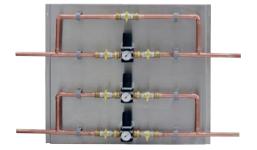




Compressed Air Tank

- 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	GZ82.08	
Capacity (L)	300	500	1000	1500	2000	
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





Medical Air Plant with Oil-Free Compressors

Inspital offers medical air plants with high technology oil-free compressors.

These new generation compressors are reliable compact, silent and delivers oil free compressed air. As compressors are designed for continuous operation, it is very reliable and efficient with low maintenance cost. Because of its 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
GZ80.12	2x109 m³/h	Oil Free	1X100 m³/h	1500 L
GZ80.13	3x109 m³/h	Oil Free	2X100 m³/h	2x1000 L
GZ80.14	1x158 m³/h	Oil Free	1x190 m³/h	2x1000 L
GZ80.15	2x158 m³/h	Oil Free	1x190 m³/h	2x1000 L
GZ80.16	3x158 m³/h	Oil Free	2x190 m³/h	2x1500 L
GZ80.17	1x213 m³/h	Oil Free	1x210 m³/h	2x1000 L
GZ80.18	2X213 m³/h	Oil Free	1x210 m³/h	2x1500 L
GZ80.19	3X213 m³/h	Oil Free	2x210 m³/h	2x1500 L

Oil-free system provides 100% oil-free air and it has low noise level for hospital environment. As there is no oil injected to the air, there is no need to invest for the purification of waste water. This is the best way to protect the environment.

Oxygen Production Systems

Inspital 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.

Inspital Oxygen Generators deliver oxygen in a purity up to 95% at flow rate from 3 to 50 m³/h. Station delivers constant purity rate independent from the consumption. Ideal system consists of air compressors, dryers, 02 generator, active carbon tower, tanks and filters.

Features:

- Oxygen purity level and outlet pressure indicator
- Easy handling from Touch screen
- Automatic operation
- · Reducing operation cost
- Return investment in less than 1 year
- Optional oxygen analyzer



Model No	02 Generator Capacity	Bed Number	Compressor Capacity (m³/h)	Compressor Type	Air Tank Capacity	Tank Capa- city	Dreyer Capacity
GZ81.01	3 m³/h		7,5 kw/(0,92 m³/h)	Screw Type	500 L	500 L	CAD 30
GZ81.02	6 m³/h	50-100	11 kw/(1,40 m³/h)	Screw Type	500 L	500 L	CAD 52
GZ81.03	9 m³/h		22 kw/(3,2 m³/h)	Screw Type	1000 L	1000 L	CAD 61
GZ81.04	12 m³/h		22 kw/(3,2 m³/h)	Screw Type	1000 L	1000 L	CAD 61
GZ81.05	15 m³/h	100-150	30 kw/(4,4 m³/h)	Screw Type	1000 L	1000 L	CAD 110
GZ81.06	18 m³/h		30 kw/(4,4 m³/h)	Screw Type	1000 L	1000 L	CAD 110
GZ81.07	20 m³/h		30 kw/(4,4 m³/h)	Screw Type	1000 L	1000 L	CAD 110
GZ81.08	25 m³/h		30 kw/(4,4 m³/h)	Screw Type	1000 L	1000 L	CAD 110
GZ81.09	30 m³/h	150-200	45 kw/(6,2 m³/h)	Screw Type	1000 L	1000 L	CAD 170
GZ81.10	40 m³/h		55 kw/(9,2 m³/h)	Screw Type	2000 L	1500 L	CAD 200
GZ81.11	50 m³/h	200-250	75 kw/(10,6 m³/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.

Classification

Inspital LOX tanks are specially designed and Manufactured according to 2014/68/EU Pressure Equipment Directive (PED) EN 13445 – Annex C for long term storage of cryogenic liquified gases under pressure.

DESIGN CODE	EN 13458 - PED 97/23/EC
MAX. ALLOWABLE WORKING PRESSURE	19 bar
DESIGN TEMPERATURE	-196°C
INNER VESSEL MATERIAL	Stainless Steel (According to EN 10028-7)
OUTER VESSEL MATERIAL	Carbon Steel (According to EN 10025/EN 10028-3)
INSULATION	Perlite & Vacuum

Features:

- Optional long-distance control with telemetry
- Standard manual or optional digital level indicator
- TUV Austria approved and CE marked
- Included VIE control panel

Air Gas Standard Storage Tanks Dimensions

19 Bar Cryogenic lin/Lox/Lar Storage Tanks

Model no	Gros Capacity	Net Capacity (%95 Filling)	Daily Evap. Rate (02)	ØD	В	L	W	Н	Empty Weight
	liters	liters	%/day	mm	mm	mm	mm	mm	kg
GZ90.05	6200	5890	0.30	1830	5120	5910	2050	2120	3750
GZ90.10	10450	9930	0.29	2400	4640	5340	2400	2690	5300
GZ90.15	14850	14110	0.28	2400	6130	6830	2400	2690	6950
GZ90.25	24750	23510	0.24	2400	9925	10625	2400	2690	10800
GZ90.30	31300	29735	0.23	2680	9600	10300	2680	3020	11750
GZ90.50	50000	47500	0.19	3050	11300	3050	11300	12000	20500

Ambient Air Vaporizer

Ambient air vaporisers requires no external source of energy; and enables vaporization through exchange of heat with the surrounding air. The liquefied gas is vaporized, and warmed to almost the surrounding temperature, and finally led to the users in its gaseous state

The vaporisers are for use with liquid:

- Oxygen
- Nitogen
- Argon
- Carbon Dioxide
- Nitrous Oxide
- LNG

Design Specifications

INSPITAL offers a full range of ambient air vaporizers in different versions and for different applications. Our following properties:

- Designed and manufactured according to PED 97/23/EC
- · Has CE marking
- Max allowable working pressure 40 bar
- Cleaned for oxygen service
- Seismic requirements acc. to uniform building code-zone 4
- Low pressure drop
- Efficient fin tube desing
- Optimised external and internal surfaces for optimum convection

Vaporiser options

- Ambient air vopariser options are
- Fin tube vaporisers
- Fan assisted vaporiser

Fin tube vaporisers rely on natural convection while fan assisted models are equipped with an models are equipped with an enhance air flow and increase efficiency.



Model no	Exterior Surface (M2)	Capacity for LOX (Nm³ /h)
GZ90.05	29	93
GZ90.10	59	186
GZ90.15	117	372
GZ90.25	205	650
GZ90.30	292	929
GZ90.50	400	1274

The evaporator selection is made according to consumption of hospital.

Evaporator needs to change between reserve at every 8 hours.

The evaporator capacities to be selected according to the external surface will vary according to the outdoor temperature, working time and fluid type.









Copper Tubes

Pipeline solutions for medical installations

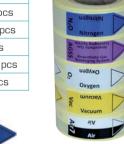
- Medical copper tubes are degreased and marked according to EN 13348 System in accordance with requirement of the medical gas market.
- Straight length copper tube is available in 4m lengths and individually red capped.
- We have stocks of medical copper tubes available for immediate dispatch.
- Special wooden cases packaging is suitable for exporting delivery.

Specific Benefits Include:

- Specially cleaned copper tubes for medical gas and vacuum systems. Superseding earlier 'hybridised' copper tube standards such as BS EN1057 & BS 2871 Part 1 quoted in HTM 2022 & NHS engineering spec.
- Tighter limits on cleanliness determination.

Copper Pipe Label

Model No	Explanation
MB30.01	Oxygen 250 pcs
MB30.02	Vacuum 250 pcs
MB30.03	Air 250 pcs
MB30.04	Nitrogen 250 pcs
MB30.05	Agss 250 pcs













Model No	Explanation	Thickness	Working Pressure	Length
MB10.01	8 mm	1,0 mm	84 bar	4 m
MB10.02	10 mm	0,6 mm	84 bar	4 m
MB10.03	10 mm	1,0 mm	84 bar	4 m
MB10.04	12 mm	0,6 mm	77 bar	4 m
MB10.05	12 mm	1,0 mm	77 bar	4 m
MB10.06	15 mm	0,7 mm	63 bar	4 m
MB10.07	15 mm	1,0 mm	63 bar	4 m
MB10.08	22 mm	1,0 mm	58 bar	4 m
MB10.09	28 mm	1,0 mm	51 bar	4 m
MB10.10	28 mm	1,5 mm	51 bar	4 m
MB10.11	35 mm	1,0 mm	40 bar	4 m
MB10.12	35 mm	1,5 mm	40 bar	4 m
MB10.13	42 mm	1,0 mm	42 bar	4 m
MB10.14	42 mm	1,5 mm	42 bar	4 m
MB10.15	54 mm	1,5 mm	27 bar	4 m
MB10.16	54 mm	2,0 mm	27 bar	4 m
MB10.17	76 mm	1,5 mm	29 bar	4 m
MB10.18	76 mm	2,0 mm	29 bar	4 m
MB10.19	108 mm	2,0 mm	16 bar	4 m
MB10.20	108 mm	2.5 mm	16 bar	4 m

Copper Tubes And Accessories

Fittings & Accessories

- Inspital's end feed fittings, manufactured according to BS EN 1254-1; 1998 are seamless, monoblock fittings, which makes them stronger and easier to use.
- Biostatic composition of the copper material inhibits bacterial growth on its surface
- End connections: Copper x Copper
- Lightweight, strong and corrosion resistant
- Unaffected by sunlight, has no special storage requirements and does not produce toxic fumes in a fire.
- All fittings supplied contain less than 100mg/m2 (0.01mg cm2) of hydrocarbons on the degreased surface.



	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
76 mm	FT51.09	FT51.17	FT51.36	FT50.25 / 54x28 mm
				FT50.26 / 54x35 mm
				FT50.27 / 76x54 mm
				FT51.28 / 35x28 mm
				FT51.29 / 35x42 mm
				FT51.30 / 54x42 mm

Copper Pipe Clips

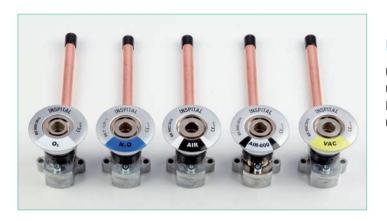
- Inspital designed clips used as copper tube supports on ceilings and walls.
- Can be mounted directly on the wall or mounted by rail.
- Single and jointed usage
- · Color coded clips copmatible with gas standard
- · Halogen free, non-flammable material



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





Medical Gas Outlets

Outlet Dia: 45 mmCopper 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

	Service of the servic	Was by Dac	Same Same	Arr. syo	A CONTRACTOR OF THE PARTY OF TH	CO2
	Oxygen	Vacuum	Air 4	Air 7	N ₂ O	CO ₂
DIN	PR80.01	PR80.02	PR80.03	PR80.04	PR80.05	PR82.01
BS	PR80.06	PR80.07	PR80.08	PR80.09	PR80.10	-



Medical Gas Outlets

Outlet Dia: 49 mmCopper 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	NICHARY CS	MED AND ASSESSED ASSESSEDA ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDA ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDA ASSESSED ASSESSED ASSESSED ASSESSEDANCE ASSESSEDANCE ASSESSED ASSESSED ASSESSED ASSESSEDANCE ASSESSED ASSESSED ASSESSED ASSESSE	N ₂ O	CO ₂
DIN-90°	PR80.11	PR80.12	PR80.13	PR80.14	PR80.15	PR82.02
BS-90°	PR80.16	PR80.17	PR80.18	PR80.19	PR80.20	-
AFNOR-90°	PR80.21	PR80.22	PR80.23	PR80.24	PR80.25	-
DIN-45°	PR82.11	PR82.12	PR82.13	PR82.14	PR82.15	PR82.03
BS-45°	PR82.16	PR82.17	PR82.18	PR82.19	PR82.20	-
AFNOR-45°	PR82.21	PR82.22	PR82.23	PR82.24	PR82.25	-

Medical Gas Outlets and Accessories



Medical Gas Outlets

Outlet Size : 62 X 96 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

	©	(max)	(), am ()	
	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







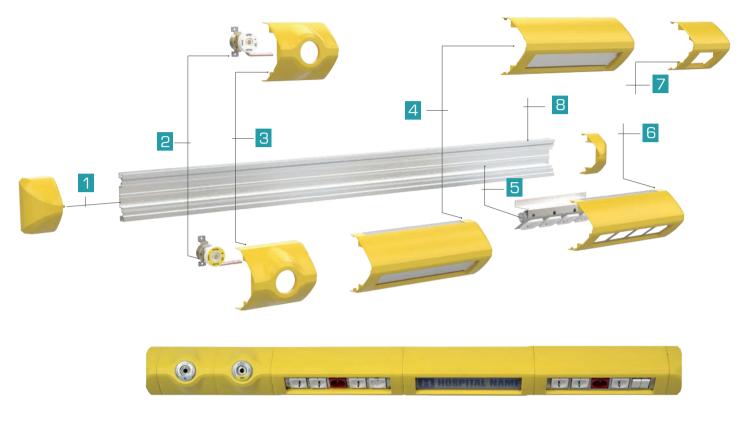
AGSS Terminal Units

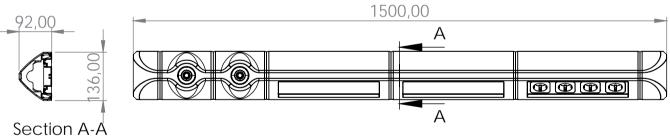
Inspital AGSS terminal units are designed according to safety and performance requirements of EN ISO 9170-2 standard

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

		T						
Probe Type	BS	BS Probe	DII	N (Venturi Type	e)	DIN Probe	Air Motor	Air Motor Probe
Model No	PR80.26	PR80.27	PR80.28	PR80.29	PR80.30	PR80.31	PR81.32	PR81.33





Modular Bed Head Units

- 1- Side Hatch, 75 mm
- 2- Outlets Set
- 3- Med.Gas Outlet Module, (Single Port) 150 mm
- 4- Led Lighting Module, 350 mm
- 5- Electrical Outlets Set, 350 mm
- 6- Electrical Power Module, (3/4/5 Sockets) 350 mm
- 7- Electrical Power Module, (Single Sockets) 150 mm
- 8- Aluminium Shape

Colour Options		
White	RAL9003	
Yellow	RAL1018	
Light Grey	RAL7040	
Anthracite	RAL7015	

Patient Bed Head Units



Modular Bed Head Units

New generation Inspital bed head units are designed for new generation hospitals which requires functional, extendable and modular solutions.

Manufactured according to EN 11197 and fully meets all the standards of this regulation.

Innovative design of modular bed head units offer:

- Modular structure
- Configurable unit according to customer's needs both during the order and after the installation
- Aluminum main frame
- ABS cover (optional anti-bacterial version)
- Wide range of color options
- LED light for reading and ambient lighting (optional fluorescent light)
- Electrical sockets available for different country standards
- Name plate option on lamp module

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







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 EN 11197 standard.

Each unit is custom manufactured to your specific requirements.

Standard Accessories

• Electrical socket :3 pcs 220 V (BS and DIN)

Reading lampPower button1 pc

Explanation	Length	Model No
Single bed	1500-1800 mm	GB22.35
Double bed	3000-3600 mm	GB22.45



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 EN 11197 standard.

Each unit is custom manufactured to your specific requirements.

Standard Accessories

• Electrical socket :3 pcs 220 V (BS and DIN)

Reading lamp :2 pcsPower button :1 pc

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

Patient Bed Head Units





ICU Type Patient Bed Head Unit with Double Channel and Double Rail

Inspital Patient Bed Head Units are designed to provide integrated solutions of medical gas outlets, nurse call systems and electrical outlets in patient areas, especially in ICU's. Our Bedhead Units are designed and manufactured incompliance with EN 11197 standard.

Standard Accessories

• Electrical socket 6 pcs (BS and DIN)

• Earth node 4 pcs

Explanation Wall Type	Length	Model No
Single bed	1500-1800 mm	GB22.01
Double bed	3000-3600 mm	GB22.02
Single bed	1500-1800 mm	GB22.31
Double bed	3000-3600 mm	GB22.32

California	Explanation	Model No
Celiling support	For single BHU	GB52.01
Pi Ollido	For double BHU	GB52.02











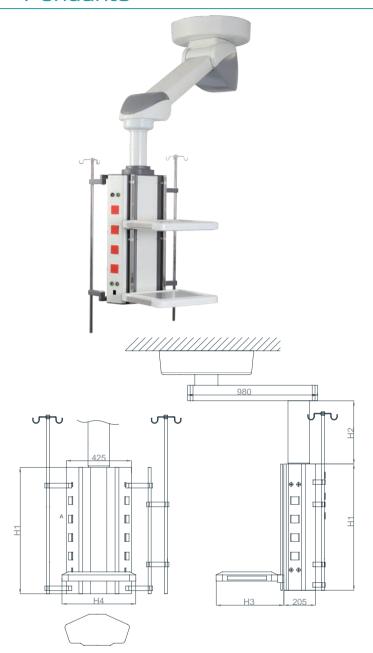
Model: FX40.25 Double Joint, Motorised Pendant

Model: FX40.20 Single Joint, Motorised Pendant

Model: FX40.15 Double Joint Pendant with Double Shelf

Model: FX40.10 Single Joint Pendant with Double Shelf

Pendants



Pendant Systems

Inspital single joint pendants are designed to provide single point service for medical gas, electricity and equipment positioning nearby the patient. Mobility, flexibility and heavy duty design gives a strong support in operating theatres. Every pendant is custom design by our experienced sales support team.

Features

High payload capacities until 1.000 kg
Color coded brake buttons and joints
Optional electromagnetic and pneumatic brake system
Optional bluetooth sound system
Visual indicators for movements

Standard Accessories

• Power Outlet: 8 Number UK, USA, Europe

Grounding Note: 8 Pcs Rail Shelf: 1 Pc

• IV Pole 2 Pcs

Optional Accessories

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

H1 dimensions	H2 dimensions	H3, H4 dimensions
600 mm	300 mm	500x400
800 mm	500 mm	
1000 mm	700 mm	
1200 mm	900 mm	
	1100 mm	



Model: FX40.05 Pendant with Monitor Shelf



Model: FX40.15D Heavy Duty Double Joint Pendant



Model: FX40.20M Heavy Duty Motorised Pendant



Model: FX40.10S Heavy Duty Single Joint Pendant





Infusion Pump Pole, Double, Rail Type

Explanation Model NoDouble SR10.22



IV Pole

Explanation Model No With Clamp SR10.32



Infusion Pump Pole with Connector

Explanation Model No
Connector Inclusive SR10.33



Basket, Stainless Steel, Rail Type

 Explanation
 Model No

 220x220x240 mm
 FX41.01

 220x400x240 mm
 FX41.02



Monitor Tray, Rail Type

Explanation Model No Rail Type FX41.03



Monitor Tray, Wall Type

Explanation Model No 400 mm Height Adjustment FX41.04



Shelf for Pendants

Explanation Model No 500 x 400 mm FX41.05



Shelf with Drawer for Pendants

Explanation Model No 500 x 400 mm FX41.06



Examination Lamp LED, Rail Type

ExplanationModel NoRail Type (LED)LP10.05

Pendants



Bridge Type ICU Pendant

Inspital bridge type pendants are used to provide medical gas outlets, electrical outlet and convenient device positioning around the patient in ICU, recovery and similar departments

Standard Accessories:

Electrical Socket : 6 pcs EUR/UK/USA

Equipment shelf : 3 pcs IV pole : 1 pc Drawer : 2 pcs

Optional Accessories:

Medical gas outlets (BS/DIN/NF), data outlet (RJ45), manometer for medical gases

Technical Specifications

Material : Main frame: aluminum;

Shelves: 1mm steel

Movements : Shelves move horizontally in the rail

and rotate manually

Loading capacity : 50 kg

Color : RAL colors are avaliable

Power Input : 220V AC - 50 Hz

Dimensions : (WxLxH)350x2200 x1300mm

Model: FX40.50







Outlet Boxes, On Plaster/ Under Plaster

- Made of 304 quality S/S material
- Suitable to install on plaster / under plaster
- Several length and outlet standard alternatives

On Plaster Model	Under Plaster Model	Length	Outlet Qty
PR81.01	PR81.07	310 mm	2
PR81.02	PR81.08	460 mm	3
PR81.03	PR81.09	610 mm	4
PR81.04	PR81.10	760 mm	5
PR81.05	PR81.11	910 mm	6
PR81.06	PR81.12	1110 mm	7

Without outlets



Plastic Outlet Boxes, Under Plaster

- Made of durable 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	Under Plaster 250 mm		PR81.18
Under Plaster	Under Plaster 400 mm		PR81.19
On Plaster	100 mm	1	PR81.20

• Without outlets



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
02, 250 cm	PR81.13
N20, 250 cm	PR81.14
AIR, 250 cm	PR81.15
VAC, 250 cm	PR81.16

Medical Gas Outlets and Accessories



Probes

Inspital probes are produced according to international standards by using a special labelling for gases.. 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
- Special labeling for each gas type
- Safe hose connection
- Made of chrome plated brass material or Stainless Steel

		BS	DIN	AFNOR	DISS	CHEMETRON	OHMEDA
Oxygen	Stainless Steel	JK90.50	JK90.51	JK90.52	JK90.53	JK90.54	JK90.55
Oxygon	Brass	JK90.56	JK90.57	JK90.58	_	_	-
Vacuum	Stainless Steel	JK90.60	JK90.61	JK90.62	JK90.63	JK90.64	JK90.65
Vacuum	Brass	JK90.66	JK90.67	JK90.68	-	_	_
Air 4	Stainless Steel	JK90.70	JK90.71	JK90.72	JK90.73	JK90.74	JK90.75
All. 4	Brass	JK90.76	JK90.77	JK90.78	-	-	-
Air 7	Stainless Steel	JK90.80	JK90.81	JK90.82			
All. /	Brass	JK90.86	JK90.87	JK90.88	-	_	_
N O	Stainless Steel	JK90.90	JK90.91	JK90.92	JK90.93	JK90.94	JK90.95
N ₂ O	Brass	JK90.96	JK90.97	JK90.98	_	_	-
CO	Stainless Steel	JK91.10	JK91.11	JK91.12			
CO ₂	Brass	JK91.16	JK91.17	JK91.18		_	



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.

Size (LxWxH) : 80 x 48 x 145 mm Inlet : Whitworth GAS 1/8"

Pressure : $4.2 \text{ Kgs/cm}^2 - 60 \text{ psi} - 414 \text{ kPa}$

Flow Rate : 0 - 15 L/min Humidifier capacity : 200 ml

Flowmeters L/min	Without Adaptor	BS 5682	DIN 13260	NF 90 116	DISS	CHEMETRON	OHMEDA
Oxygen	лаария	D0 000E	DII TOLOG	141 00 110	Dioo		J
Wall type	FM20.11	FM20.21	FM20.31	FM20.41	FM20.51	FM20.61	FM20.71
Rail type	FM20.12	FM20.22	FM20.32	FM20.42	FM20.52	FM20.62	FM20.72
Dual wall type	FM20.13	FM20.23	FM20.33	FM20.43	FM20.53	FM20.63	FM20.73
Dual rail type	FM20.14	FM20.24	FM20.34	FM20.44	FM20.54	FM20.64	FM20.74
Air							
Wall type	FM20.15	FM20.25	FM20.35	FM20.45	FM20.55	FM20.65	FM20.75
Rail type	FM20.16	FM20.26	FM20.36	FM20.46	FM20.56	FM20.66	FM20.76
Dual wall type	FM20.17	FM20.27	FM20.37	FM20.47	FM20.57	FM20.67	FM20.77
Dual rail type	FM20.18	FM20.28	FM20.38	FM20.48	FM20.58	FM20.68	FM20.78

Respiration Equipment







Calibrated Mobile Flowmeters

Flowmeters

Inspital flowmeters are instant flow measurement devices regulating the dosage of medical gases particularly suitable in Oxygen therapy.

- Pre-calibrated and measurement tube types
- I/O switch for immediate locking and reactivating
- Large siz adjusting knob with soft grip

Size (LxWxH) : 61x107x175 mm

Gas supply pressure : 280÷600 kPa

Gas options : 02, Air

End of scale values : 15 L/min.

Flow calibration data : 1013 mbar 23 °C

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

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



	150 ml	300 ml	120 ml	355 ml
Model No	FM21.80	FM21.84	FM21.82	FM21.83

Flowmeter Humidifier Bottle

- Designed to humidify oxygen before patient's respiration
- Made of polycarbonate and scaled
- Sterilizable up to 121 °C For 15 min
- 120, 150, 300, 355 ml capacity options
- Connection to Flowmeter : Moving pipe union
- Lid material : Plastic
- Integrated relief valve





Oxygen Mask and Hose

- Oxygen concentration delivered is 40%-60% depending on the patient's breathing. The masks are connected directly to a compressed air or oxygen supply. The products are intended for single use only.
- 2.1m oxygen tubing
- Mask, oxygen tubing material: Polyvinyl chlorid

Model No	Explanation
AT20.60	Adult
AT20.61	Pediatric
AT20.62	Hose

Respiration Equipment







Probe with Manometer

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

	Without	ence	-				
Gas Type	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



Vacuum Regulators

- On / Off lever for instant vacuum cut
- Autoclavable safety jar to avoid fluid leakage into central vacuum line
- Chrome plated brass trunk
- Easy to read vacuum gauge
- Flow adjustment knob

	Without	c					
Gas Type	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

- The regulator is made of a strong techno-polymer body, with a quick I/O switch-button, a suction adjustment knob and a control vacuum gauge with three possible end-of-scale choices: -250 mbar pediatric and -1000 mbar.
- De-pressure Safety valve inclueded
- Autoclavable safety jar to avoid fluid leakage into central vacuum line

Max. suction flow - 1000 : 115 L/min at -950 mb
 Max. suction flow - 250 : 50 L/min at -220mbar
 Vacuum gauge : 0 + -1000 mbar

• I/O switch : Quick push switch button

	Without			-			
Gas Type	Adaptor	BS 5682	DIN 13260	NF 90 116	DISS	CHEMETRON	OHMEDA
Vacuum - 1000 mbar	FG52.10	FG52.11	FG52.12	FG52.13	FG52.14	FG52.16	FG52.15
Vacuum - 250 mbar	FG52.20	FG52.21	FG52.22	FG52.23	FG52.24	FG52.26	FG52.25



Venturi Type Vacuum Regulator

- Designed to provide vacuum by using compressed air or oxygen source
- Chrome coated brass trunk
- Avaliable in BS, DIN, AFNOR, DISS and OHMEDA standards
- Max Suction Flow: 25L/min at-775 mbar
- Gas Consumption at max Scution : 60L/min

	Without						
Gas Type	Adaptor	BS 5682	DIN 13260	NF 90 116	DISS	CHEMETRON	OHMEDA
Medical Air	FG53.01	FG53.02	FG53.03	FG53.04	FG53.05	FG53.07	FG53.06

Respiration Equipment



Oxygen Therapy Device

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

• Chrome plated brass trunk

High resistant polycarbonate humidifier bottle suitable for sterilization

Maximum gas supply pressure
 Regulator Outlet Pressure
 Adjustable Flow
 Pressure Gauge Range
 Sterilization Method
 200 bar
 3.5 - 4 bar
 0 - 15 L/min
 121 °C

	Bull Nose	DIN	PIN INDEX
Model No	FM21.86	FM21.87	FM21.88



Oxygen Therapy Device Calibrated

Max. gas supply pressure
 Regulator Outlet Pressure
 Adjustable Flow
 Pressure Gauge Range
 200 bar
 3.5 - 4 bar
 0 - 15 L/min
 200 bar
 3.5 - 4 bar
 20 - 315 bar

• Pressure reducer assy : Double stage with shutter system

Flow setting data : 1013 mbar 23 °C

Side gas outlet connection

	Bull Nose	DIN	PIN INDEX
Model No	FM21.69	FM21.79	FM21.89



Oxygen Therapy Device

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

• Chrome plated brass trunk

 High resistant polycarbonate humidifier bottle suitable for sterilization

Maximum gas supply pressure: 200 bar
 Regulator Outlet Pressure: 3.5 - 4 bar
 Adjustable Flow: 0 - 15 L/min
 Inlet Pressure Gauge Range: 0 - 315 bar

	Bull Nose	DIN	PIN INDEX
Model No	FM21.96	FM21.97	FM21.98



Laboratory S/S Regulator

Line groups with body valve

Inlet pressure : 0 - 40 barOutlet Connection : R 3/8"

Adjustable Pressure : O-10 bar & Argon 1,5 bar

Stainles diaphragm

Model No	Gas type	Gas flow	Inlet Connetion
GZ70.80	Oxygen	70 m³/h	R 1/4 NPT
GZ70.81	Nitrogen	70 m³/h	R 1/4 NPT
GZ70.82	N20	70 m³/h	R 1/4 NPT
GZ70.83	Argon 1,5 bar	15 m³/h	R 1/4 NPT
GZ70.84	CO2	12 m³/h	R 1/4 NPT
GZ70.85	Helium	40 m³/h	R 1/4 NPT
GZ70.86	Hydrogen	55 m³/h	R 1/4 NPT
GZ70.87	Dyr Air	15 m³/h	R 1/4 NPT
GZ70.88	Mixed	60 m³/h	R 1/4 NPT

Respiration Equipment



Pressure Regulators

• Double stage stainless

Inlet pressure : 0 - 230 barOutlet Connection : R 3/8"

• Adjustable Pressure : O-10 bar Argon 1,5 bar

Stainles diaphragm,

Sigle Model	Double Model	Gas type	Gas flow	Inlet Connetion
GZ70.60	GZ70.70	Oxygen	30 m³/h	R 3/8"
GZ70.61	GZ70.71	Nitrogen	30 m³/h	R 5/8" Inner
GZ70.62	GZ70.72	Argon	30 m³/h	R 5/8" Inner
GZ70.63	GZ70.73	CO2	11 m³/h	W21, 80X1/14
GZ70.64	GZ70.74	Helium	70 m³/h	R 5/8" Inner
GZ70.65	GZ70.75	Hydrogen	90 m³/h	W21, 80X1/14 Left
GZ70.66	GZ70.76	Dyr Air	30 m³/h	R 3/8"
GZ70.67	GZ70.77	N20	30 m³/h	R 3/8"



Ventilator Regulators

Design to use with ventilator and direct oxygen supply at emergency, ICU and ambulances.

Maximum gas supply pressure : 200 bar
 Regulator Outlet Pressure : 3.5 - 4 bar
 Pressure Gauge Range : 0 - 315 bar

	Bull Nose	DIN	PIN INDEX
Model No	FM21.91	FM21.92	FM21.93







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 Accessories



Model No	Explanation
AT80.10	Suction Liner, 1 L
AT80.20	Suction Liner, 2 L
AT80.30	Suction Liner, 3 L
AT80.11	Suction Liner With Antifoam, 1 L
AT80.22	Suction Liner With Antifoam, 2 L
AT80.33	Suction Liner With Antifoam, 3 L
AT80.91	Suction Liner With Solidifying Agents, 1 L
AT80.92	Suction Liner With Solidifying Agents, 2 L
AT80.93	Suction Liner With Solidifying Agents, 3 L

Suction Liner

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



Suction Liner Manometer Probe

- That allows to open and close to suction from top of suction liner.
- Manometer and without manometer options





The canisters are made in three sizes, to be used according to the effective requirements about the volumes expected to be suctioned, and they are manufactured in three different versions: suction liner, antifoam, solidifying agents.

Suction liner with solidifying allow us to avoid from liquid decontamination. Suction liner with antifoam finish all foam on liqud and that take advantage to use liner more efficiency.





Rail Attachment

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



Silicone / PVC Tube

 Explanation
 Model No

 8 x 14 mm (silicone)
 AT20.47

 6 x 11 mm (silicone)
 AT20.46

 8 x 12 mm (PVC)
 AT20.44

 10 x 14 mm (PVC)
 AT20.45



Yankauer Tipped Hose

ExplanationModel No1,8 Meter HoseAT20.40Suction Cannula tipAT20.41



Wall Attachment

Explanation Model No Wall Attachment AT20.50



Vacuum Control Connector

Explanation Model NoControl Connector AT20.54



Suction Cannula, Plastic

Explanation Model NoNon-Sterile AT20.55



Suction Liner Manometer Probe

ExplanationModel NoManometerAT20.78Without ManometerAT20.79



Explanation Model NoNon-Sterile AT20.52



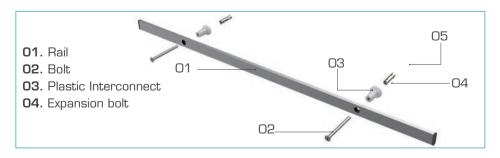
Kapkon Connector

Explanation Model No Kapkon Connector AT20.53



Rail

Explanation	Model No
1 meter	AT20.56



Suction Accessories





Central Vacuum System

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

Model No	Explanation
AT20.75	S/S frame, 4 port
AT20.75C	Powder coating frame, 4 port
AT20.75P	Powder coating frame, 1 port

- 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. *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









Surgical Suction Jar

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

Model No	Capacity
AT20.85	5 L
AT20.83	3 L
AT20.82	2 L





Analog System

Nurse Call Panel

The Nurse Call Panel is an intelligent unit with a microcontroller RTC and E^2. It can operate by itself or with a connection to a PC. Mode settings are available. It displays upt to 5 calls at and displays the time, and temperature. The system communicates via RS485 modules. Other adjustments can be performed manually through a PC connection.

Model: GB22.70



Bedside Call Unit.

The Bedside Call Unit is used patient rooms. There are backlit call and cancel buttons on the unit. In an emergency, a patient uses the call button to make an emergency call which appears as an alert on the Nurse Control Panel. Typical locations for this unit are on the walls of patient rooms and living areas as needed.

Model: GB22.76



Basic Handset

The Basic Handset allows the patient's condition to be reported quickly to the hospital staff in an emergency situation. It is easy to use and reinforced with auxiliary visuals. The device works through connection to the Bedside Call Unit. Easy-to-understand images indicate the functions of the buttons. Thanks to LEDs on the unit, the product is easily noticeable in the dark. These LEDs vary according to the last call made.

Model: GB22.72



Pull-cord Call Unit

The Pull-cord Call Unit is used in patient bathrooms or similar areas. There is a backlitcancel button and an emergency call pull-cord on the unit. In an emergency, a patient pulls the cord making an emergency call. This appears as a WC Emergency Call on the Nurse Control Panel. The system gives priority to WC Emergency calls and they appear before other calls.

Model: GB22.78



Over Door Light

The Over Door Light is located above the patient room door in the corridor. Its half-sphere shape makes it easily noticeable from any angle of view. If there is an emergency in the room, it can be seen clearly from the corridor. It can warn with three main colors, red, green, and blue, and combinations of these, depending on the call status of the room.

Model: GB22.80



Room Control Unit

The Room Control Unit is suitable for surface montage. Can support 4 beds, 1 WC, and 1 bath/shower by default. It can operate without external power supply.

Model: GB22.75



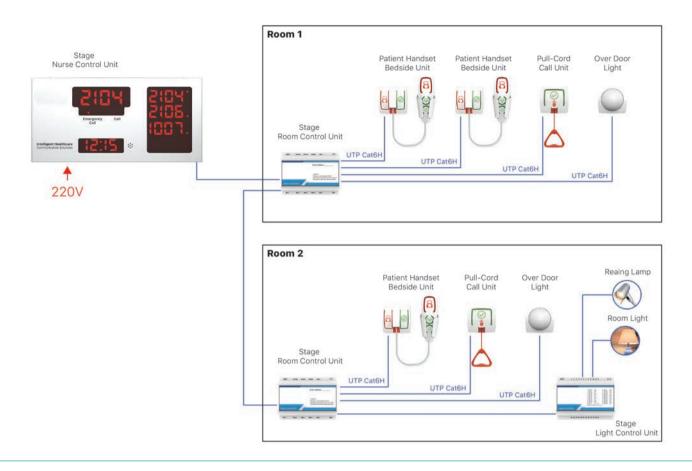
Light Control Unit

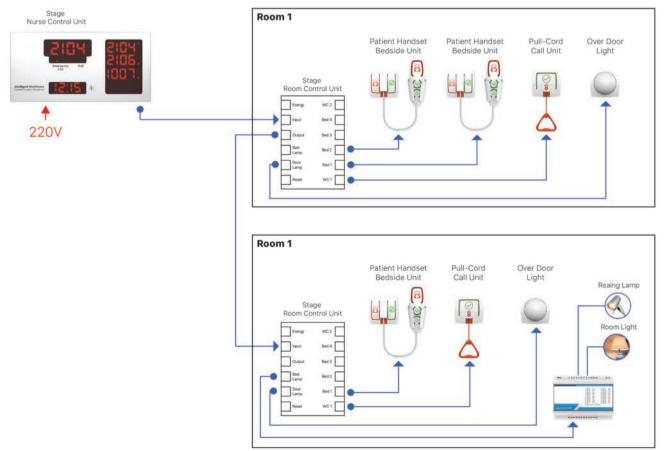
The Light Control Unit is a module that must be added to a system when control of room lighting/reading lamp through patient handsets is requested. This module supports up to 4 beds..

Model: GB22.82



Nurse Call System







IP System

Room Control Unit 5"

This unit ensures communication between the Nurse Control Panel and the call buttons in patient rooms. The Room Control Unit is suitable for both flush and shallow montage. It features a 5" touchscreen and a built-in Mifare card reader. Optionally a basic task list can be accessible from the onscreen menu.

Model: GB22.83



7" Nurse Control Panel

The statuses of all working Room Control Units connected to the panel can be monitored actively. All errors and notifications shall be displayed on the information panel. Emergency codes, WC calls, and normal calls may be monitored. All processes passing through the system are logged.

Model: GB22.84



Pro Handset

The Pro Handset is designed to inform the staff of the patient's condition immediately.

- Easy to use
- Works though connection to Bedside Call Unit
- TV control option (Channel and Volume)
- EL lights allow visibility in the dark
- Function buttons help to control room lighting, reading lamp, window blinds, etc.

Model: GB22.85



Code Blue Unit

The Code Blue Unit is mounted on the wall as needed in the hospital. There are backlit call and code blue buttons on the unit. The call button may be pressed to initiate a nurse call which appears as an alert on the Nurse Control Panel. The code blue button may be pressed to start a Code Blue call. The same button can be configured as an assist call button.

Model: GB22.86



Over Door Light

The Over Door Light is located above the patient room door in the corridor. Its half-sphere shape makes it easily noticeable from any angle of view. If there is an emergency in the room, it can be seen clearly from the corridor. It can warn with three main colors, red, green, and blue, and combinations of these, depending on the call status of the room.

Model: GB22.81

Nurse Call System

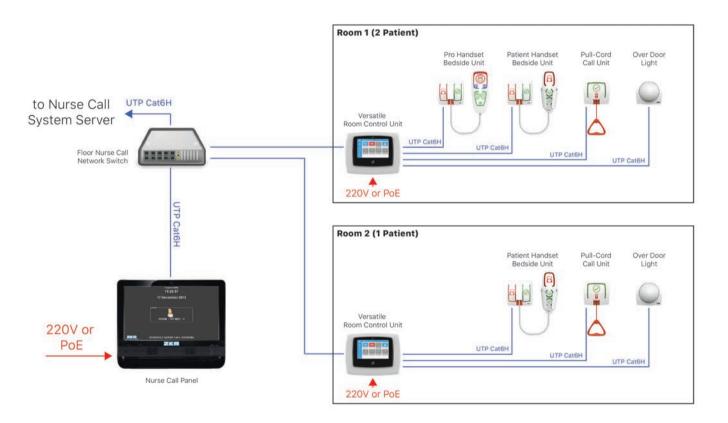
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Reporting and Management Server

The server controls the operation of the Comfort, Versatile Plus, Versatile, and Air Plus (optional) systems used in hospitals. The server provides log reporting through a web interface and enables integration with other systems used throughout the building. Our servers have a Linux-based robust and reliable infrastructure.

Model: GB22.87

System Block diagram





Wireless System Dot Matrix Panel

- Displays 4 calls in order of priority (others wait in queue)
- Adjustable 5 digits can show floor, room, bed number, etc.
- Color LEDs indicate call type
- Supports up to 64 beds
- Audible alerts according to call type

Model: GB22.71



Signal Repeater

It is used with the purpose of expanding the coverage area if the distance between the patient call units and the nurse panel is excessive. There is no restriction on the number of repeaters to be used in the environment. Requires external 5V Supply.

Model: GB22.74

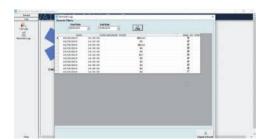
Signal Repeater

It is used with the purpose of expanding the coverage area if the distance between the patient call units and the nurse panel is excessive. There is no restriction on the number of repeaters to be used in the environment. Requires external 5V Supply.

INSPITAL Wireless Reporter Software

With the Reporter software, the calls made on system can be logged and reported. The software also doubles as a monitor for receving calls, displaying calls in priority order with icons and colors indicating the call type: Nurse Call, Nurse Presence, WC Call, and Code Blue

- The software can be muted and unmuted with a single button. It features a Night Service toggle to forward all calls received to another panel.
- There is also a feature to set custom reminder alarms.
- All of the call logs and reminder logs can be viewed and filtered.
- Pager and Forwarding Panel settings can be configured.
- The program also allows names to be given to specific call points so that that name will appear in the logs and the call receiving scree







Medical Gas Test Kits



Medical Gas Test & Commissioning Kit

- A complete set all in one box to carry out Test & Commissioning
- Includes Digital Pressure & Flow, AGSS Test & Commissioning, Male Anti Confusion NIST, Anti Confusion Probes and Standard Purging test kits
- In compliance with HTMO2-O1 and relevant European Standards and all preceding standards.

Model:GZ75.01



Anti Confusion Probes

- Set of six stainless steel gas specific probes
- Gases include 02, 02/N20, N20, Air-4 Bar, Air-7
 Bar, Vacuum
- Calibrated to BS 5682In compliance with HTMO2-O1 and relevant European Standards and all preceding standards

Model:GZ75.02

Anti Confusion NIST Probes

- Set of six or nine stainless steel gas specific NIST probes
- Gases include 02, 02/N20, N20, Air-4 Bar, Air-7 Bar, Vacuum
- Nine includes CO2, N, HEO2 (Carbon Dioxide, Nitrogen, Heliox)
- Calibrated and manufactured to current industry standards

Model:GZ75.03





Filter

Standard Particulate and Purging Kit

- 75/150Lpm flow rate jets
- Hydrophobic Membrane 47mm filter papers, 0.45(μm) pore size
- In compliance with HTMO2-O1 and relevant European q Standards and all preceding standards

Model: GZ75.04



Pressure Drop Test Gun

- Measures pressure losses at NIST or Outlet Point
- Lockable valve to prevent tampering
- Ideal to test at AVSU and Manifold points
- 20054D Digital Pressure Gauge or Conventional Analogue Gauge

Model: GZ75.05



INSPITAL

INSPITAL Medical Technology GmbH