UZTECH

MEDICAL GAS SYSTEMS

Uztech.
Reliable Solutions in
Critical Areas.

Uztech is a leading medical gas equipment manufacturer with its high quality and solution oriented products.

Uztech offers full range of modern gas network equipment starting from medical gas plants to medical gas outlets.

Uztech medical gas products are manufactured according to EN ISO 7396-1 and HTM 02-01 standards. As a clear sign of sense of responsibility in healthcare sector, Uztech production facility has ISO 9001, ISO 13485 and ISO 45001 quality management system certifications.

Uztech has been manufacturing medical gas equipment since 1969 and reached more than 90 countries worldwide with its products and services.
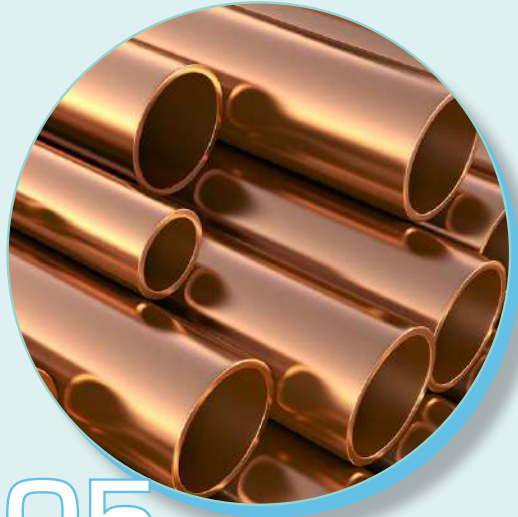
UZTECH
MEDICAL GAS SYSTEMS

Model: 1000.10 - 1000.20

Model: 1025.10 - 1025.20

Patient Bed Head Unit with Three Channels and Double Lamps

Material	: Extruded aluminum with electrostatic paint
WxH	: 90x240 mm
Color	: RAL colors are avaliable
Power Input	: 220V 50 Hz

Standard Accessories

Electrical socket	: 3 pcs 220 V
Reading lamp	: 2 pcs
Power button	: 1 pc

Optional Accessories:

Medical gas outlets (BS/DIN/NF), telephone outlet, UPS outlet, data outlet (RJ45) and Nurse Call System outlet

Explanation	Length	Model No
Single bed	1500-1800 mm	1000.10
Double bed	3000-3600 mm	1000.20
Single bed	1500-1800 mm	1025.10
Double bed	3000-3600 mm	1025.20

Modular Patient Bed Head Units

UZTECH modular bed head units are new generation products, which can offer colorful and multifunctional modular parts, to have easily customized solutions. Durable aluminium main frame supports all parts firmly and ABS cover offers several color options (white, light grey, dark grey and yellow) There are 5 different modules and they can be lined up to havecustomised solution.

Modules:
1. Medical Gas Outlet Module (150 mm)
2. LED Light Module (350 mm)
3. Multiple Electrical Outlet Module (350 mm)
4. Single Electrical Outlet Module (150 mm)
5. Side Cover (75 mm)

Explanation	Length	Model No
Single bed	1500-1800 mm	1065.10
Double bed	3000-3600 mm	1065.11

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

UZTECH Bed Head Units are manufactured in compliance with EN 11197 standard. Each unit is custom manufactured to hospital's specific requirements.

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

Material : Extruded aluminum with electrostatic paint and accessory rail is aluminum
WxH : 110x280 mm
Color : Eloxal
Power Input : 220V 50 Hz

Standard Accessories:
Electrical Socket : 12 pcs EUR/UK/USA
Grounding : 8 pc
Accessory rail : 2 pc, (25x10 mm)
Optional Accessories:

Medical gas outlets (BS/DIN/NF), telephone outlet, UPS outlet, data outlet (RJ45), Nurse Call System outlet, monitor stand, IV pole and examination lamp

Wall Type	Length	Model No
Single bed	1500-1800 mm	1040.10
Double bed	3000-3600 mm	1040.20

Ceiling Type	Length	Model No
Single bed	1500-1800 mm	1045.10
Double bed	3000-3600 mm	1045.20

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Bridge Type ICU Pendant 5070.40

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
Dimensions (WxLxH)   : 350x2200x1300mm

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)
and manometer for medical gases

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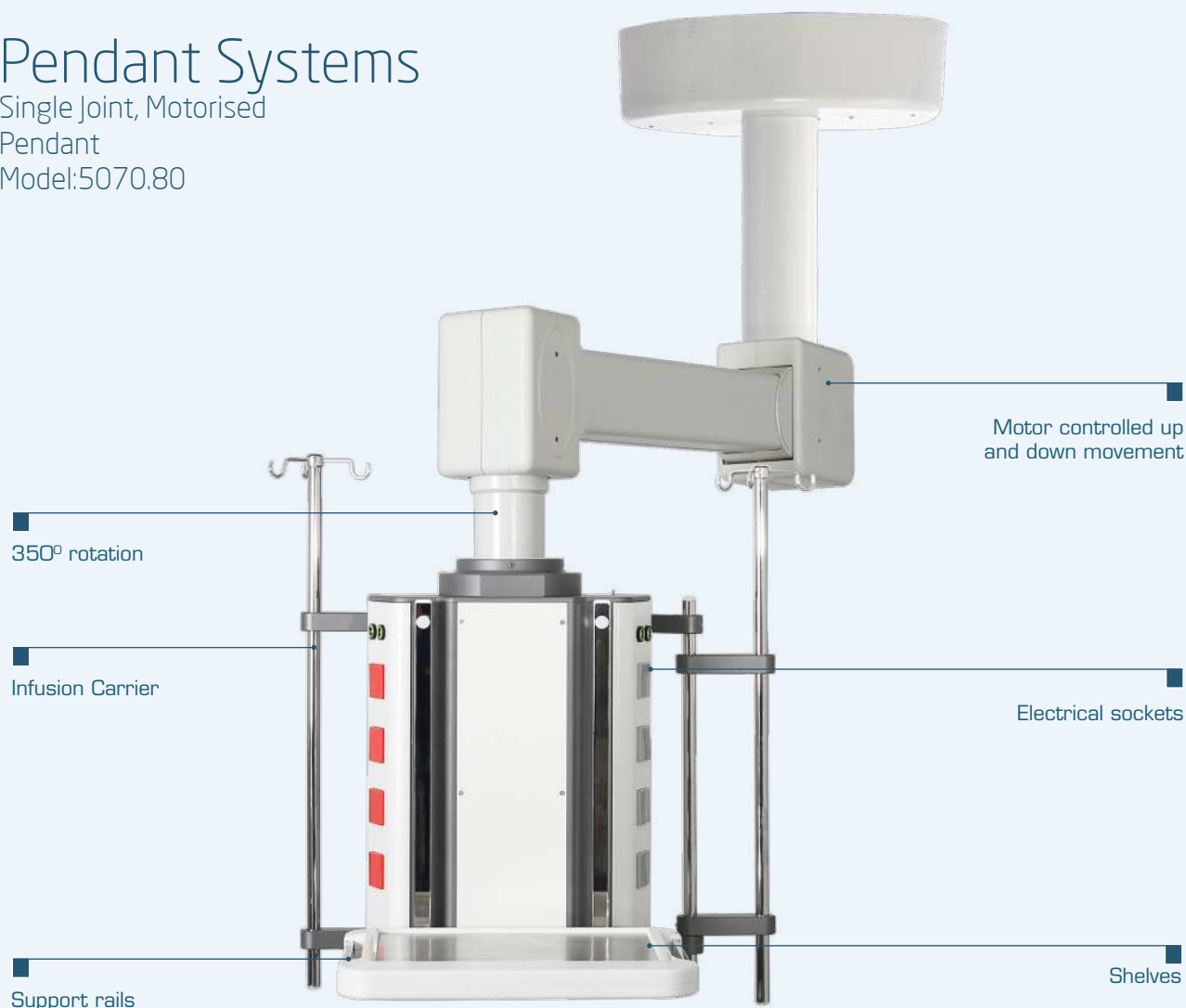
PENDANTS

Pendants are used to provide medical gas outlets, electrical outlets and devices around the patient smoothly especially in rush medical areas like OT, ICU and recovery rooms.

Each pendant can be customized and manufactured according to the needs of the hospitals.

Pendant Systems

Single Joint, Motorised
Pendant
Model:5070.80

Motor controlled up
and down movement

350⁰ rotation

Infusion Carrier

Electrical sockets

Support rails

Shelves

Material	:	Main frame: aluminum; shelf and extension arm: steel
Movements	:	Motorised vertical movement; manual horizontal and rotation movements
Loading capacity	:	80 kgs
Total weight	:	194 kgs
Color	:	RAL 9002
Power Input	:	220V AC – 50 Hz

Standard Accessories

Power Outlet	:	8 pcs UK / USA / EU
Grounding	:	8 Pcs
Rail Shelf	:	1 Pc
IV Pole	:	2 Pcs

Optional Accessories:

Shelf, IV pole, drawer, data outlet (RJ45), manometer for medical gases and medical gas outlets (BS/DIN/NF/ENV)

Model:5070.81
Double Joint, Motorised
Pendant with Single Shelf

Model:5070.75
Double Joint Pendant
with Single Shelf

Model:5070.50
Pendant with Monitor Shelf

Model:5070.60
Single Joint Pendant with Single Shelf

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BS Medical Gas Outlets

Outlet Dia : 50 mm
Copper Pipe Dia : 10 mm
Production Standard : BS 5682/EN ISO 9170-1

Item	Model	BS 90°	BS 45°
O2	1001.50	66.1542	67.1413
Vac	1002.50	66.1547	67.1414
N2O	1003.50	66.1553	67.1415
Air 4	1004.50	66.1555	67.1417
Air 7	1005.50	66.1559	67.1418
O2 N2 - Mix	1001.59	66.1563	67.1416

DIN Medical Gas Outlets

Outlet Dia : 45 mm
Copper Pipe Dia : 10 mm
Production Standard : DIN 13260-2/EN 9170-1

Item	Model	BS 90°	BS 45°
O2	1001.51	66.1543	67.1425
Vac	1002.51	66.1546	67.1426
N2O	1003.51	66.1551	67.1427
Air 4	1004.51	66.1556	67.1429
Air 7	1005.51	66.1560	67.1430
CO2	1008.51	66.1554	67.1428

AFNOR Medical Gas Outlets

Outlet Dia : 40 mm
Copper Pipe Dia : 10 mm
Production Standard : NF S 90-116

Item	Model	BS 90°	BS 45°
O2	1001.52	66.1544	67.1431
Vac	1002.52	66.1548	67.1432
N2O	1003.52	66.1552	67.1433
Air 4	1004.52	66.1557	67.1435
Air 7	1001.05	66.1561	67.1436
CO2	1005.58	66.1562	67.1434

MEDICAL GAS OUTLETS AND ACCESSORIES

High quality Uztech outlets are designed for medical gases and services in operating theatres and all patient care areas. All outlets are manufactured in accordance with international norms.

Probes for Medical Gas Outlets

- Manufactured according to BS 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

Probes, BS Standard

Item	Model No
O2	1601.05
Vac	1602.05
N2O	1603.05
Air 4	1604.05
Air 7	1605.05

Probes, DIN Standard

Item	Model No
O2	1601.10
Vac	1602.10
N2O	1603.10
Air 4	1604.10
Air 7	1605.10

Probes, AFNOR Standard

Item	Model No
O2	1601.15
Vac	1602.15
N2O	1603.15
Air 4	1604.15
Air 7	1605.15

Medical Outlet Boxes BS/DIN:
- Designed to be used as a single medical gas outlet for on plaster applications
- Completely made of durable plastic material
- Compatible with BS or DIN standards
- Base part, main body, frame and cover can be ordered seperately

Item	Dimensions (WxLxH)	Article Code
Base part	82x82x22	67.1194
Main body	86x86x50	67.1198
Cover BS	86x86x12	67.1196
Cover DIN	86x86x12	67.1197
Frame	106x106x12	67.1195

Medical Outlet Box AFNOR

- Specially designed for single on plaster applications of AFNOR standard outlets
- Main body is made of durable plastic and cover is made of metal
- Base part and cover can be ordered seperately

Item	Dimensions (WxLxH)	Article Code
Main frame	65x65x25 mm	67.1199
Cover	65x65x25 mm	67.1200

AGSS Outlet, Venturi Type

- Manufactured according to DIN standard
- Can be used as under plaster, on plaster or pendant outlet
- Special port to enable safe connection
- Outlet is made of chrome plated brass and housing is made of S/S.
- Special probe is made of chrome plated brass material

Model no: 1007.10

Model no: 1607.10

AGSS Outlet

- Manufactured according to BS standard
- Special port to enable safe connection
- Outlet is made of brass
- Special probe is made of chrome plated brass material

Model no: 1007.05

Model no: 1607.05

S/S Outlet Boxes, On Plaster

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

Model No	Length	Outlet Qty
1009.01U	160 mm	1
1009.02U	310 mm	2
1009.03U	460 mm	3
1009.04U	610 mm	4
1009.05U	760 mm	5
1009.06U	910 mm	6
1009.07U	1110 mm	7
1009.08U	145 mm	Single AGSS

Outlet Boxes, Under Plaster

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

Model No	Length	Outlet Qty
1009.01	160 mm	1
1009.02	310 mm	2
1009.03	460 mm	3
1009.04	610 mm	4
1009.05	760 mm	5
1009.06	910 mm	6
1009.07	1110 mm	7
1009.08	106 mm	Plastic

Medical Gas Hoses

- Special hoses for medical gases
- Made of thermoplastic and rubber material
- Color coding according to EN 5359 standard
- Suitable up to 20 bar pressure
- Inner dia: 6,7 mm   Outer dia: 12 mm

Hose Type	Article Code
O2	66.1471
N2O	66.1474
AIR	66.1477
VAC	66.1483

OUTLET BOXES

Flowmeters

- Designed to adjust and control the oxygen flow
- High resisting polycarbonate inner and outer tubes
- Sensitive measurement by needle valve
- 0 – 15 lpm standard scaling markings

Type	Without Adaptor	BS	DIN	AFNOR
Oxygen	1200.00E	1200.05U	1200.10U	1200.15U
Air	1200.30	1200.05	1200.10	1200.15

Flowmeter Humidifier Bottle

- Designed to humidify the oxygen before patient's respiration
- Made of polycarbonate and scaled
- Sterilizable up to 134⁰ C
- 150 ml and 200 ml capacity options

Model no: 1272.00

Model no: 1270.00

FLOWMETERS

Oxygen Therapy Device

- Designed to supply oxygen from high pressure cylinders to patient
- Adjusts and controls the oxygen flow
- Suitable for homecare usage
- 0 – 15 lpm standard scaling markings
- Chrome plated brass trunk
- High resisting polycarbonate humidifier bottle suitable for sterilisation

OTC 50
A.C.: 66.1289

OTC 51
A.C.: 66.1288

Regulator Inlet Pressure	:	196 bar
Regulator Outlet Pressure	:	3,5 ~ 4 bar
Adjustable Flow	:	0-15 L / min
Pressure Gauge Range	:	0-310 bar
Sterilisation method	:	134°C (Autoclavable)

Oxygen Mask and Hose

- Disposable oxygen mask and tube
- 2,1 m tube length

Explanation	Model No
Adult	2002.01
Pediatric	2002.02
Hose	2002.02

Ventury Type Vacuum Regulator

- Designed to create vacuum without need of central
- vacuum source
- Regulator provides vacuum by compressed air or oxygen source
- Made of chrome coated brass material
- DS, DIN and AFNOR standards are available

Explanation	Model No
BS	1422.05
DIN	1422.10
AFNOR	1422.15

Probe with Manometer

- Designed to adjust the flow in desired flow rate from medical gas outlet to patient
- BS, DIN and AFNOR connections are available
- Made of chrome plated brass material

Gas Type	BS 5682	DIN 13260	NF 90116
O2	1401.05	1401.10	1401.15
Vac	1402.05	1402.10	1402.15
N20	1403.05	1403.10	1403.15
Air 4	1404.05	1404.10	1404.15
Air 7	1405.05	1405.10	1405.15

Vacuum Regulator

- The new generation Uztech vacuum regulator is made of durable technopolymer material
- Vacuum regulator has quick I/O button for emergency cut off
- -1000 mbar adult and -250 mbar pediatric versions are available
- Regulator has built in depressure safety valve and autoclavable safety jar

- Max. suction flow - 1000 : 115 L/min at -950 mbar
- Max. suction flow - 250 : 50 L/min at -220 mbar
- Vacuum gauge : 0 + -1000 mbar
- I/O switch : Quick push switch button

Gas Type	Without Adaptor	BS 5682	DIN 13260	NF 90116
Vacuum -1000 mbar	1420.20	1420.20B	1420.20D	1420.20N
Vacuum -250 mbar	1420.40	1420.40B	1420.40D	1420.40N

VACUUM REGULATOR

NEW PRODUCT

Thoracic Suction Control Unit

- Thoracic suction unit is a compact unit used throughout the hospital for Thoracic Surgery or Cardiac Surgery drainage.
- The unit provides an adjustable vacuum of 0 to 20 cm H_2O low pressure suction.
- Scaled, polycarbonate, autoclavable bottle

Explanation	Model No
BS	1520.00B
DIN	1520.00D
NF	1520.00N

Central Vacuum System: 30403

- Portable high capacity vacuum station
- Integrated vacuum regulator with vacuum gauge
- 4 pcs jar capacity
- Separate knob for each jar
- Autoclavable jars at 121° C
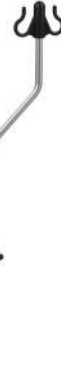
Infusion Pump Pole, Double, Rail Type

Explanation	Model No
Double	1050.AA

IV Pole

Explanation	Model No
With Clamp	1050.SA

Infusion Pump Pole with Connector

Explanation	Model No
Connector included	1050.CK

Basket, Stainless Steel, Rail Type

Explanation	Model No
220x220x240 mm	1050.SP
220x400x240 mm	1051.SP

Monitor Tray, Rail Type

Explanation	Model No
Rail Type	1050.SR

Monitor Tray, Wall Type

Explanation	Model No
400 mm Height Adjustment	1050.MD

Drawer, Rail Type

Explanation	Model No
540 x 360 mm	1050.DR

Shelf with Drawer for Pendants

Explanation	Model No
500 x 400 mm Drawer	1050.MC
500 x 400 mm Shelf	1050.SH

Examination Lamp LED, Rail Type

Explanation	Model No
Rail Type (LED)	1050.EL

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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 copper tube is available in 4m lengths and individually red capped.
- Wooden case packing for export deliveries

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.

Model No	Explanation	Thicknesss	Working Pressure	Length
1006.08	8 mm	1,0 mm	84 bar	4 m
1066.10	10 mm	0,6 mm	84 bar	4 m
1006.10	10 mm	1,0 mm	84 bar	4 m
1066.12	12 mm	0,6 mm	77 bar	4 m
1006.12	12 mm	1,0 mm	77 bar	4 m
1076.15	15 mm	0,7 mm	63 bar	4 m
1006.15	15 mm	1,0 mm	63 bar	4 m
1006.22	22 mm	1,0 mm	58 bar	4 m
1006.28	28 mm	1,0 mm	51 bar	4 m
1156.28	28 mm	1,5 mm	51 bar	4 m
1006.35	35 mm	1,0 mm	40 bar	4 m
1156.35	35 mm	1,5 mm	40 bar	4 m
1006.42	42 mm	1,0 mm	42 bar	4 m
1156.42	42 mm	1,5 mm	42 bar	4 m
1156.54	54 mm	1,5 mm	27 bar	4 m
1206.54	54 mm	2,0 mm	27 bar	4 m
1156.76	76 mm	1,5 mm	29 bar	4 m
1206.76	76 mm	2,0 mm	29 bar	4 m
1206.108	108 mm	2,0 mm	16 bar	4 m
1256.108	108 mm	2.5 mm	16 bar	4 m

Copper Pipe Label

Model No	Explanation
2004.01	Oxygen 250 pcs
2004.02	Vacuum 250 pcs
2004.03	Air 250 pcs
2004.04	Nitrogen 250 pcs
2004.05	Agss 250 pcs

Fittings & Accessories

- UZTECH'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.

| Diameter	Elbow 90 Model No	Equal T Model No	Coupling Model No	Reducer Model No
10 mm	1506.10	1506.20	1506.30	1506.40 / 12x10 mm
12 mm	1506.11	1506.21	1506.31	1506.41 / 15x12 mm
15 mm	1506.12	1506.22	1506.32	1506.42 / 22X12 mm
22 mm	1506.13	1506.23	1506.33	1506.43 / 15x22 mm
28 mm	1506.14	1506.24	1506.34	1506.44 / 15x28 mm
35 mm	1506.15	1506.25	1506.35	1506.45 / 22x28 mm
42 mm	1506.16	1506.26	1506.36	1506.46 / 22x35 mm
54 mm	1506.17	1506.27	1506.37	1506.51 / 54x22 mm
76 mm	1506.18	1506.28	1506.38	1506.52 / 54x28 mm
				1506.50 / 54x35 mm
				1506.53 / 76x54 mm
				1506.47 / 35x28 mm
				1506.48 / 35x42 mm
				1506.49 / 54x42 mm

Copper Pipe Clips

- UZTECH 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	1606.00	1606.10	1606.20	1606.30
Hook 15 mm	1606.01	1606.11	1606.21	1606.31
Hook 22 mm	1606.02	1606.12	1606.22	1606.32
Hook 28 mm	1606.03	1606.13	1606.23	1606.33
Hook 35 mm	1606.04	1606.14	1606.24	1606.34
Hook 42 mm	1606.05	1606.15	1606.25	1606.35
Hook 54 mm	1606.06	1606.16	1606.26	1606.36

Model No	Explanation
1606.40	Hook Rail
1606.41	Stoper
1606.42	Distance
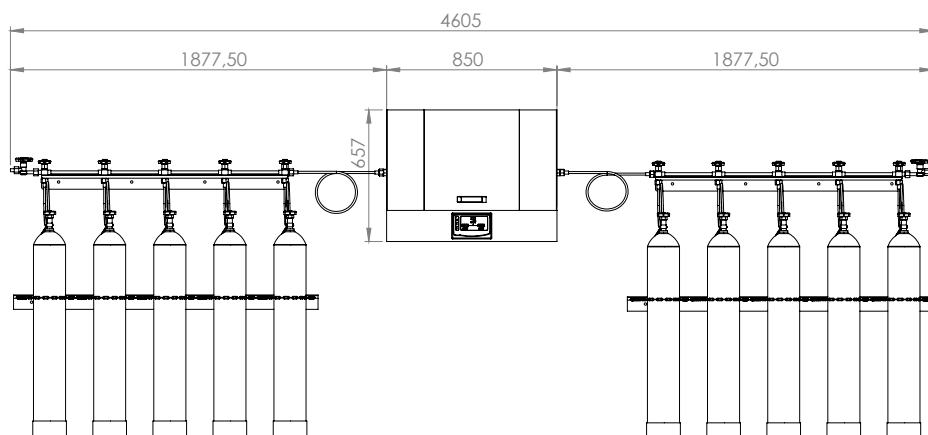
Central Gas Station for O2, N2O and CO2

- Designed to provide continuous gas supply to the hospital
- System enables to change cylinders without any interruption on gas supply
- Alternative capacities for different gas types and hospital consumption amount

Oxygen Station	Model No	MOS-4M	MOS-6	MOS-10	MOS-11	MOS-16	MOS-20	MOS-30	MOS-40	MTO-2
	Article Code	66.1063	66.1064	66.1065	66.1338	66.1066	66.1067	66.1068	66.1069	66.1062
Nitrousoxide Station	Model No	MAS-4M	MAS-6	MAS-10	MAS-11	MAS-16	MAS-20	MAS-30	MAS-40	MTA-2
	Article Code	66.1070	66.1071	66.1072	66.1073	66.1341	66.1074	66.1342	66.1075	66.1578
Pressure Reducer 100 m³/h		-	-	-	1 pc	1 pc	1 pc	1 pc	1 pc	-
Pressure Reducer 35 m³/h		1 pc	1 pc	1 pc	-	-	-	-	-	1 pc
Cylinder Qty		2x2 pcs	2x3 pcs	2x5 pcs	2x5 pcs	2x8 pcs	4x5 pcs	6x5 pcs	8x5 pcs	2 pcs
Bed Qty (for O2 station)		30	30	50	30-50	40-70	70-100	100-150	150-200	5-10

4000.10A

Manifold System with Double Regulator: 4000.10/4000.10A

- Fully automatic manifold control system
- Designed to provide a control on standby and in use cylinders
- Maintains a constant delivery pressure

- **Working Mode** : 2 stage, 2 regulators
- **Capacity** : 100 – 150 m³/h
- **Inlet dia** : 1/2"
- **Outlet dia** : 22 mm
- **Inlet pressure (max)** : 220 bar
- **Outlet pressure** : 4-6 bar
- **Automation** : Fully Automatic
- **Dimensions (WxLxH)** : 230x657x850 mm

Model No	Article Code
4000.10	66.1085
4000.10A	66.1087

^ 4000.15

Manifold System with Double Regulator: 4000.15/4000.15A

- Fully automatic manifold control system
- Designed to provide a control on standby and in use cylinders
- Maintains a constant delivery pressure

- **Working Mode** : 2 stage, 2 regulators
- **Capacity** : 35-40 m³/h
- **Inlet dia** : 1/2"
- **Outlet dia** : 22 mm
- **Inlet pressure (max)** : 220 bar
- **Outlet pressure** : 4-6 bar
- **Automation** : Fully Automatic
- **Dimensions (WxLxH)** : 190x620x590 mm

Model No	Article Code
4000.15	66.1086
4000.15A	66.1088

High Pressure Reducer, Single Regulator:
- **Working Mode** : 1 stage, 1 regulator
- **Capacity** : 100 m³/h
- **Inlet dia** : 1/2"
- **Outlet dia** : 22 mm
- **Inlet pressure (max)** : 220 bar
- **Outlet pressure** : 4-6 bar

Model No	Article Code
4000.30	66.1089
4000.30A	90.1560

High Pressure Reducer, Single Regulator:
- **Working Mode** : 1 stage, 1 regulator
- **Capacity** : 35 m³/h
- **Inlet dia** : 1/2"
- **Outlet dia** : 12 mm
- **Inlet pressure (max)** : 220 bar
- **Outlet pressure** : 4-6 bar

Model No	Article Code
4000.80	66.1091
4000.80A	66.1092

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

Model No	Length mm	Article Code
2200.10, Single	180 mm	90.1555
2200.20, Double	330 mm	90.1556
2200.30, Triple	630 mm	90.1557
2200.40, Quadruple	930 mm	90.1558
2200.50, Quintuple	1230 mm	90.1559

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

Model No	Length mm	Article Code
2200.81, Single	180 mm	66.1093
2200.82, Double	330 mm	66.1094
2200.83, Triple	630 mm	90.1561
2200.84, Quadruple	930 mm	90.1562
2200.85, Quintuple	1230 mm	66.1097

Tail Pipe:

- Used for connecting the cylinders to cylinder ramp
- Lenght 140 cm, made of copper pipe
- Gas specific thread for O2, N2O, CO2 and medical gas cylinders
- Nut diameter: 1/2"

Model No	Gas Type	Cylinder nut dia	Article Code
• 2001.01	Oxygen (bull-nose)	5/8 (Male)	61.1167
• 2006.00	Carbondioxide	Ø 21.8 mm, 1/14	67.1340
• 2001.00	Oxygen	3/4"	90.1553
• 2003.00	Nitrousoxide	3/8"	90.1554

Flexible Connection
66.1079

Discharge Valve
66.1076

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

Model No	Description	Article Code
4400.PB	Positive Pressure Sensor, max.10 bar	67.1065
4400.VB	Vacuum Sensor, -1/0 bar	67.1108
4400.YB	High Pressure Reducer Sensor, Max.250 bar	67.1250

Medical Gas Ball Valve:

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

Model	Pipe Dia.	Article Code
2800.10	10 mm	66.1317
2800.12	12 mm	66.1399
2800.15	15 mm	66.1357
2800.22	22 mm	66.1318
2800.28	28 mm	66.1358
2800.35	35 mm	66.1319
2800.42	42 mm	66.1320
2800.54	54 mm	66.1409

Area Gas Control Panels:

- Suitable for O2, N2O, AIR4, AIR7 and VAC
- On plaster and under plaster models
- Lockable covers with emergency access lock system
- Manometer window enables to follow gauge values externally

Explanation	Under Plaster Version Article Code	On Plaster Version Article Code
1 gas w/o alarm	66.1098	66.1108
1 gas with alarm	66.1103	66.1113
2 gas w/o alarm	66.1508	66.1109
2 gas with alarm	66.1104	66.1114
3 gas w/o alarm	66.1509	66.1110
3 gas with alarm	66.1105	66.1115
4 gas w/o alarm	66.1510	66.1111
4 gas with alarm	66.1106	66.1116
5 gas w/o alarm	66.1511	66.1112
5 gas with alarm	66.1107	66.1117

Digital Alarm Panels:

- Alternative solutions from 1 gas to 5 gas
- Monitoring of instant gas pressure values on the screen
- Visual and voice alarms for high and low pressure values
- Visual indicators for power, high pressure, low pressure and standard run

Model No	Capacity	Article Code
4401.11	Single Gas (P/V)	67.1102
4402.21	Double Gas (P/V), (P/P)	67.1103
4403.31	Triple Gas (P/P/V), (P/P/P)	67.1104
4405.51	Five Gas	67.1105

Central Alarm Panels: 4430.05

- Designed to be used in manifold systems of O2 and N2O
- Controls the values of central gas systems
- Visual and voice alarms for high and low pressure values

AVSU Module

Description
Area Valve Service Unit Module is used to provide independent zone within the medical gas pipeline. Uztech AVSU modules are manufactured according to EN ISO 7396-1 and HTM 02-01 standards.

Classification
• AVSU Modules Unit is manufactured HTM 02-01, HTM 2022, EN ISO 7396-1 and BS EN 15908.

Services
• Oxygen
• Nitrous Oxide
• Medical Air 4 bar
• Surgical Air 7 bar
• Medical Vacuum

Feartures
• Controls up to 5 gases
• Lock system with emergency access
• Easy monitoring
• On plaster and under plaster versions
• Electrostatic painted main body

Alarm Unit
• Local Area Alarm

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

Explanation	Under Plaster Version Model No	On Plaster Version Model No
3 gas w/o alarm	AVSU-30	AVSU-31
3 gas with alarm	AVSU-30A	AVSU-31A
4 gas w/o alarm	AVSU-40	AVSU-41
4 gas with alarm	AVSU-40A	AVSU-41A
5 gas w/o alarm	AVSU-50	AVSU-51
5 gas with alarm	AVSU-50A	AVSU-51A

UZTECH
MEDICAL GAS SYSTEMS

Receiver

Control Panel

Exhaust

Bacteria Filter

Liquid Trap

Vacuum Pump
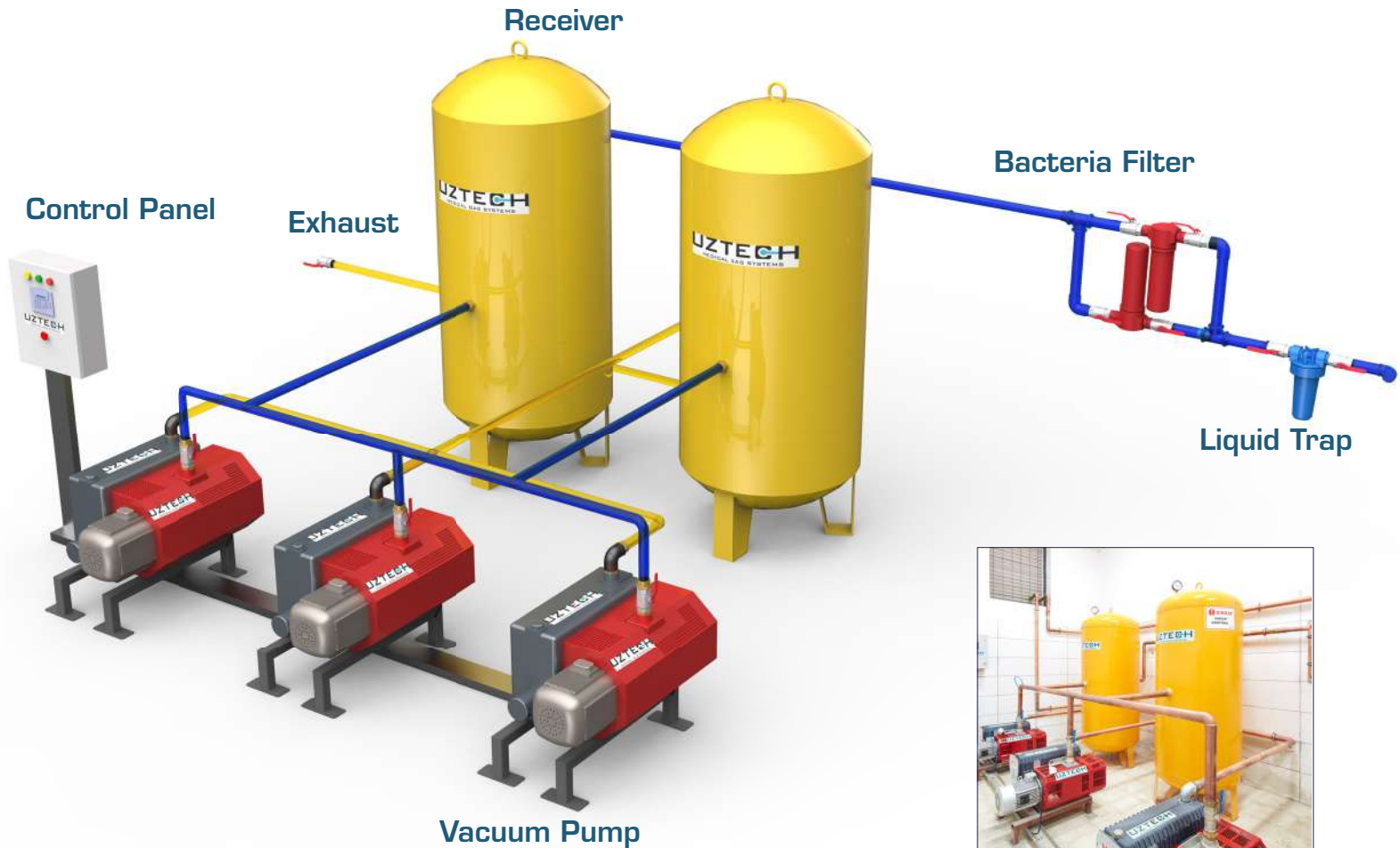
Medical Vacuum

It is critically important to provide a continuous supply of medical vacuum to a medical gas pipeline systems to aspirate fluids in OT, ICU and patient rooms.

UZTECH medical vacuum systems are manufactured in compliance with HTM 02-01, HTM 2022, MDD 93/42/EEC, EN ISO 7396-1 and C11 international standards .

UZTECH medical vacuum plants are equipped with robust, high quality lubricated rotary vacuum pumps which are PLC controlled for equal aging.

VAC Plus Vertical – Central Vacuum Station:

- Designed to supply a continuous medical vacuum of healthcare facilities.
- PLC controlled full automatic system
- Compact design
- Medical type high efficiency bacteria filters
- Lubricated rotary vane vacuum pumps
- Sliding trays for easy access of pumps

Model No	VRD-42	VRT-43	VRD-102	VRT-103	VRD-202	VRT-203
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
Bacteria 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
Article Code	66.1344	66.1498	66.1343	66.1396	66.1118	66.1500

VAC Plus Compact – Central Vacuum Station:

- Designed to supply a continuous medical vacuum of healthcare facilities
- 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	VYD-42	VYT-43	VYD-102	VYT-103	VYD-202	VYT-203
System Capacity (m³/h) – (50 Hz)	47x2	47x3	100x2	100x3	200x2	200x3
Power (kW) – (50 Hz)	1,10x2	1,10x3	2,20x2	2,20x3	4,8x2	4,8x3
Pump Qty	2	3	2	3	2	3
Tank Capacity	500	500	1000	1000	1000	1000
Bacteria Filter Qty	1 pc	1 pc	1 pc	2 pcs	2 pcs	2 pcs
Liquid Trap Qty	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc
PLC Qty	1	1	1	1	1	1
Inelt 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
Article Code	66.1120	66.1501	66.1119	66.1502	66.1566	66.1567

PLC Control Panel:

- Designed to control the vacuum pumps of central vacuum stations
- Fully automatic digital control unit

Model No	Pump T.	Cap. m3/h	Dimensions(mm)	Article Code
3301.10	Single	25 - 40	350x160x530	66.1131
3301.20	Double	65 - 100	350x160x530	66.1132
3301.30	Triple	150 - 200	350x160x530	66.1133

Bacteria Filter Set:

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

Model No	Pump Type	Article Code
3200.10	Single	66.1129
3200.20	Doble	66.1130

Liquid Trap:

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

A.C.: 66.1128

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

Model No	Capacity (l)	Wall Thickness	Diameter	Length
3350.05	500 L	5 mm	630 mm	1800 mm
3350.75	750 L	5 mm	750 mm	1800 mm
3350.10	1000 L	6 mm	850 mm	1920 mm
3350.15	1500 L	6 mm	1100 mm	2200 mm

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
• 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

Usual maintenance (EC): 3000 h or 24 months

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

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	Nominal Flow		Motor Power		Weight	3 000 hours or 24 months, Maintenance Kits	12 000 hours Maintenance Kits
	$m^3.h^{-1}$		Kw				
	50 Hz	60 Hz	50 Hz	60 Hz	kg	Model no	Model no
VPS-25	30	35.3	0,75	0,9	39	VSM-00	VSM-10
VPS-40	47.7	56	1,1	1,32	52	VSM-00	VSM-10
VPS-70	64.3	72.2	1,5	1,8	75	VSM-01	VSM-11
VPS-100	96	115	2,2	2,70	85	VSM-02	VSM-12
VPS-150	132	156	3	3,6	154	VSM-03	VSM-13
VPS-200	198	240	4	4,8	140	VSM-04	VSM-14
VPS-300	293	354	5,5	6,6	162	VSM-05	VSM-15

AGM-00

AGM-01

Mini Vacuum Station

- Ready to run compact size vacuum plants
- Lubricated rotary vane vacuum pump (VK40.14)
- Oil-less vacuum pump (VK40.15)
- Lubricated rotary vane vacuum pump
- Standard suction network inlet
- Bacteria filter with aspiration (optional)
- Liquid trap (optional)

Model No	AGM-00	AGM-01
Nominal Capacity (m³.h-1) 50 Hz	25	2x7
Power (kW) 50 Hz	0,75	2x0,45
Tank Capacity (L)	70	70
Noise Level dB (A)	60	56
Oil Capacity(L)	1,5	-
Weight (kg)	85	75

AGS-01
AGS-02

AGS-04
AGS-05

Anaesthetic Gas Scavenging System, Single and Double

AGSS is used for discharging the anesthetic gas from OT. UZTECH AGSS is CE marked and manufactured according to MDD 93/42/EEC and comply with HTM 02-01.

- Single and double blower versions are available.
- Oil-free blowers are suitable for continuous run

Model No	AGS-00	AGS-01	AGS-02	AGS-03	AGS-04	AGS-05
Capacity	24m3/h	80m3/h	130m3/h	2x24m3/h	2x80m3/h	2x130m3/h
Power kw	1,3	1,75	3,4	2x0,75	2x1,75	2x3,4
Vacuum	200 mbar	200 mbar	200 mbar	200 mbar	200 mbar	200 mbar
Inlet Dia mm	38	50,8	50,8	31.75	38	50,8
Outlet Dia mm	44	44	60	44	44	60
Weight	40	50	60	100	120	150

Medical & Surgical Air Plant Systems

Compressor

Medical System

Control Board

Dryer

Bacteria Filters

Tank

P Filter Model
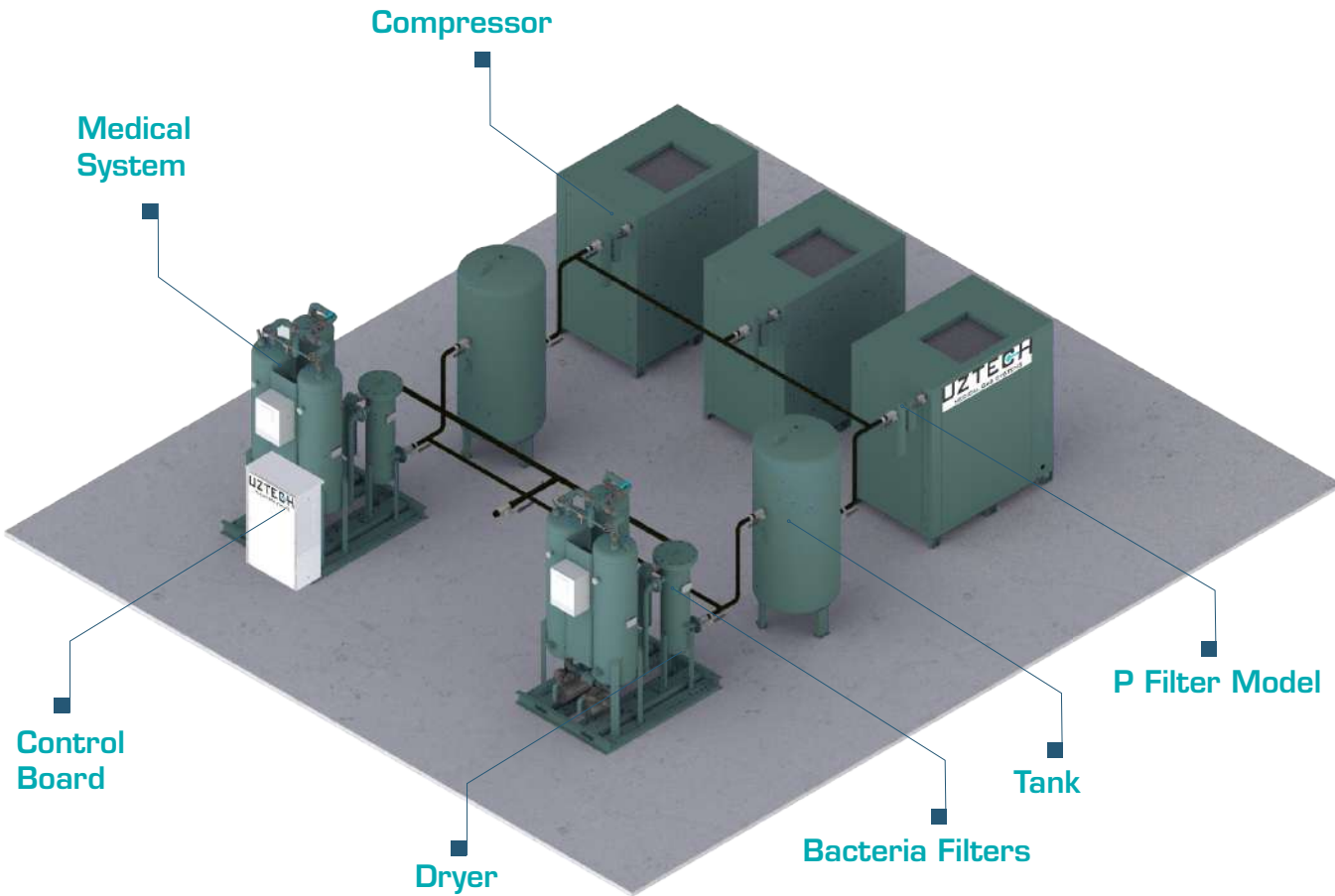
Medical Air

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

UZTECH 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 patient. It is 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 UZTECH Medical Compressed Air Stations, we ensure that you obtain quality air according to EN ISO 7396-1 and European Pharmacopoeia.

Contamination	European Pharmacopoeia
O_2	20.4% <x<21.4%
CO_2	<500 ppm
CO	<5 ppm
SO_2	<1 ppm
NO	<2 ppm
NO_2	<2 ppm
H_2O	<67 ppm
Oil vapor	<0.1 mg/m3

Medical Air System

Model No	Compressor Capacity	Compressor Pcs	Compressor Type	Tank Capacity	Filtration and Dryer System	Operating Temperature	Bed Quantitiy
BY-3-39	3x 39 m³/h	3	Screw Type	2x300 L	2	(+10) - (+50) C°	50-100
BY-3-57	3x 57 m³/h	3	Screw Type	2x500 L	2	(+10) - (+50) C°	100-150
BY-3-84	3x84 m³/h	3	Screw Type	2x1000 L	2	(+10) - (+50) C°	150-200
BY-3-11	3x117 m³/h	3	Screw Type	2x1000 L	2	(+10) - (+50) C°	200-250
BY-3-13	3x138 m³/h	3	Screw Type	2x1500 L	2	(+10) - (+50) C°	250-300
BY-3-21	3x210 m³/h	3	Screw Type	2x2000 L	2	(+10) - (+50) C°	300-500
BY-3-26	3x260 m³/h	3	Screw Type	2x2000 L	2	(+10) - (+50) C°	300-500

Technical Air System

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

UZTECH Technical 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. UZTECH 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
KV-1-39	1x39 m³/h	Screw Type	1x50 m³/h	300 L	(+10) - (+50) C°	20-50
KV-2-39	2x39 m³/h	Screw Type	1x50 m³/h	300 L	(+10) - (+50) C°	20-50
KV-1-84	1x84 m³/h	Screw Type	1x87 m³/h	500 L	(+10) - (+50) C°	50-100
KV-2-84	2x84 m³/h	Screw Type	1x87 m³/h	500 L	(+10) - (+50) C°	50-100
KV-1-17	1x117 m³/h	Screw Type	1x130 m³/h	1000 L	(+10) - (+50) C°	100-150
KV-2-17	2x117 m³/h	Screw Type	2x130 m³/h	1000 L	(+10) - (+50) C°	100-150
KV-1-16	1x168 m³/h	Screw Type	1x170 m³/h	1500 L	(+10) - (+50) C°	150-200
KV-2-16	2x168 m³/h	Screw Type	2x170 m³/h	1500 L	(+10) - (+50) C°	150-200
KV-1-21	1x210 m³/h	Screw Type	1x283 m³/h	2X1000 L	(+10) - (+50) C°	200-250
KV-2-21	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	KV-300	KV-500	KV-1000	KV-1500	KV-2000
Capacity (L)	300	500	1000	1500	2000
Trunk			(st-37)		
Inlet			1 1/2"		
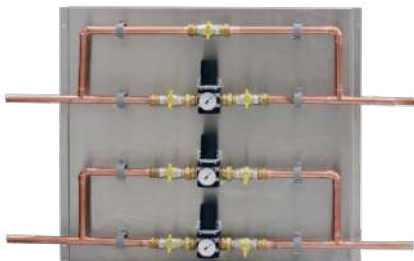
Compressed Air Regulator Group

- 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	KV-R-100	KV-R-200
Capacity (m3/h)	100	200

Compressed Line Filters

- Four different types;
- Pre Filter (General Purpose)
- Fine Filter (Oil Removal)
- Particle Filter (Particle Removal)
- Activated Carbon Filter (Fine Oil Removal)
- Operation up to 20 bar
- Diffirential pressure gauge

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 date. The system communicates via RS485 modules. Other adjustments can be performed manually through a PC connection.

Model: 4130.06

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: 4130.01

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: 4130.00

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: 4130.07

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 four main colors, yellow, red, green,and blue, and combinations of these, depending on the call status of the room.

Model: 4130.03

Room Control Unit

The Room Control Unit is suitable for surface montage. Can support 3 beds, 1 call reset 1 WC, and 1 bath/shower by default. It can operate without external power supply.

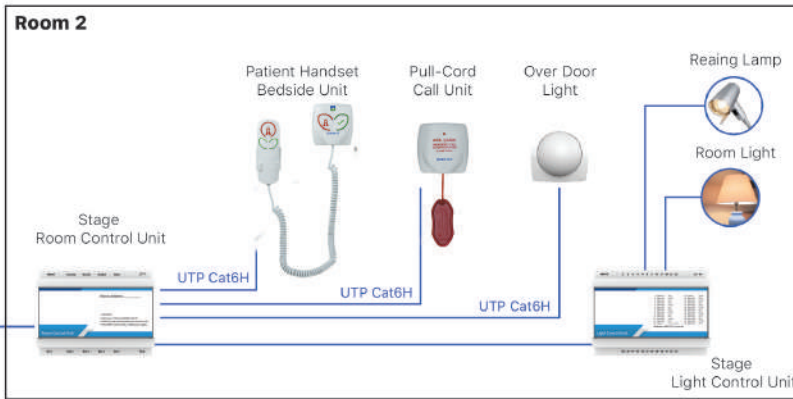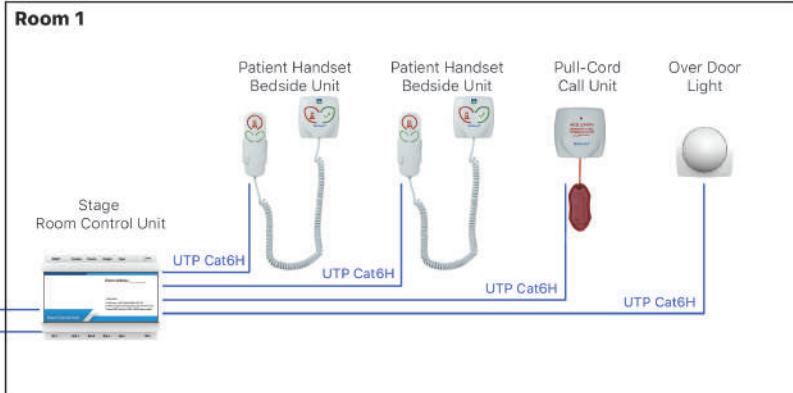**Model: 4130.04**

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 3 beds..
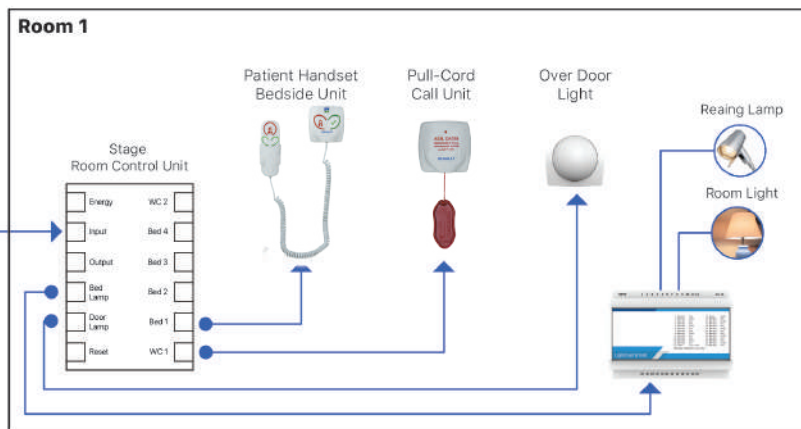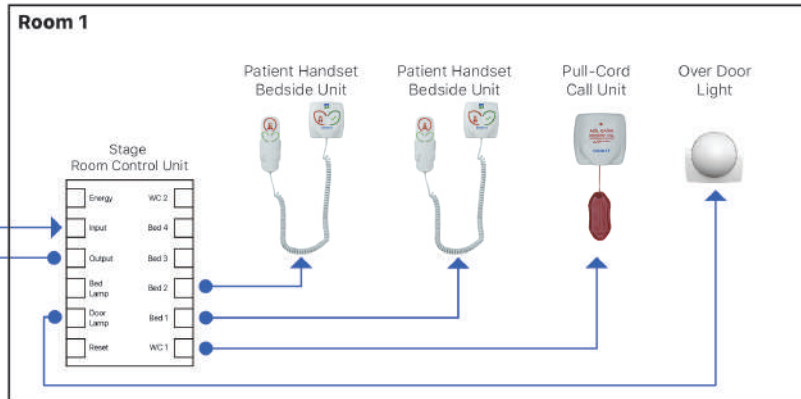
Model: 4130.09

Stage
Nurse Control Unit

1003
1004
1005
1001
1002
16.59 07.11.14

220V

12V5A DC
Power
Supply

Room 1

Patient Handset
Bedside Unit

Patient Handset
Bedside Unit

Pull-Cord
Call Unit

Over Door
Light

Stage
Room Control Unit

UTP Cat6H

UTP Cat6H

UTP Cat6H

UTP Cat6H

Room 2

Patient Handset
Bedside Unit

Pull-Cord
Call Unit

Over Door
Light

Reaing Lamp

Room Light

Stage
Room Control Unit

UTP Cat6H

UTP Cat6H

UTP Cat6H

Stage
Light Control Unit

Stage
Nurse Control Unit

1003
1004
1005
1001
1002
16.59 07.11.14

220V

Room 1

Patient Handset
Bedside Unit

Patient Handset
Bedside Unit

Pull-Cord
Call Unit

Over Door
Light

Stage
Room Control Unit

Energy	WC 2
Input	Bed 4
Output	Bed 3
Bed Lamp	Bed 2
Door Lamp	Bed 1
Reset	WC1

Room 1

Patient Handset
Bedside Unit

Pull-Cord
Call Unit

Over Door
Light

Reaing Lamp

Room Light

Stage
Room Control Unit

Energy	WC 2
Input	Bed 4
Output	Bed 3
Bed Lamp	Bed 2
Door Lamp	Bed 1
Reset	WC 1

IP System

Room Control Unit 4,3"

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 4,3" touchscreen and a built-in Mifare card reader. Optionally a basic task list can be accessible from the onscreen menu.

Model: 4130.02

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: 4130.05

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: 4130.01

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: 4130.00

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: 4130.03

Reporting and Management Server

This unit, without the need for the operator, is inclusive of Nurse Call, Blue Code, White Code and Consultant Doctor system over the local network. It is the unit that can manage, forward, keep records of all calls, run the software program that produces reporting and statistics. It works in harmony with the telephone's Exchange and hospital's information management system. Some of the presented reports are: Nurse Calls - Critcal Situations - Code Status Statistics - Graphical Reports - Performance Reports - Breakdown of Techninal Problems.

Model: 4130.12

System
Block diagram
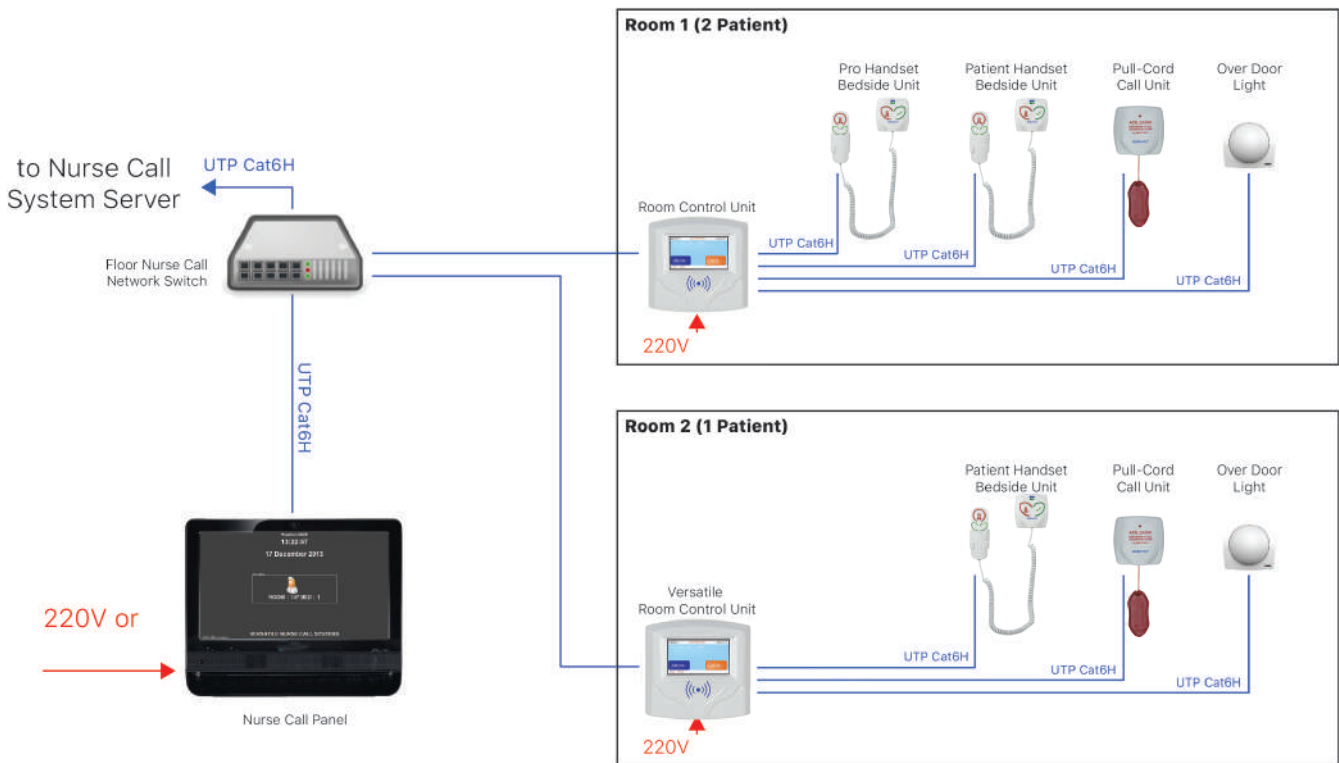
Wireless System

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
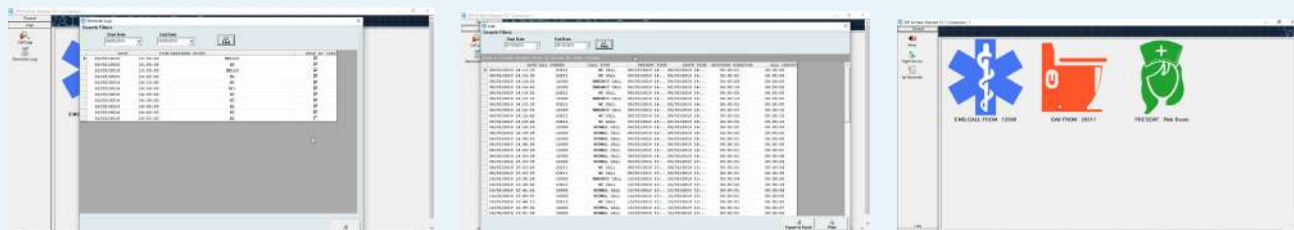• Audible alerts according to call type

Model: 4130.10

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: 4130.11

UZTECH 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 screen

UZTECH ©

MEDICAL GAS SYSTEMS

ÙZÙMCÙ
MEDICAL EQUIPMENT