GCE HEALTHCARE CATALOGUE

North American Catalog

GCE® Healthcare

GCE GROUP OVERVIEW

The GCE Group has an extensive product range to service customers within Industrial, Medical, High Purity and Speciality gas aplications.
The GCE Group can offer local sales and supply companies in the following locations: Austria, Benelux, Czech Republic, France, Germany, Hungary, Italy, Poland, Portugal, Romania, Spain, Sweden, Switzerland, United States, China and Russia. In addition GCE has recently opened new sales offices in India, Middle East (Dubai), Panama and Mexico and has its main production facilities based in the Czech Republic and China. GCE has one central distribution centre based in Kladno, just north of Prague.

MARKET LEADERS

The GCE Group is today Europe´s leading company in the field of gas control and is involved in the development and manufacturing of all types of equipment for pressure and flow control of high pressure gases. GCE's main business originally concentrated in the oxy-acetylene cutting and welding market. However, with almost 100 years of experience in the handling of high pressure gases, the product range has now grown to include high purity and medical gas equipment.

GCE CORPORATE RESPONSIBILITY

Today's product portfolio fits a large variety of applications, from simple pressure regulators and blowpipes for welding and cutting to sophisticated gas supply systems for medical and electronics industry applications.

HISTORY

The origins of GCE (Gas Control Equipment) go back to the start of the 20th century when Gas Welding was first invented. The GCE group was formed as an independent company in 1987 through the merging of two of the worlds leading gas and welding companies into one independent unit. GCE has grown rapidly since its establishment and is leading the restructuring of the European gas equipment industry through mergers and acquisitions. Through its extensive research and development programs GCE has set standards that have become the benchmark for the whole industry.

A COMPLETE RANGE FOR HEALTHCARE

Medical gas equipment is at the heart of what we do at GCE Healthcare, we understand the need for high standard of safety, quality and reliability. We maintain a global quality management system and ensure that our products comply with applicable quality and regulatory standards, such as the Medical Device Directive 93/42/EEC, ISO 13845 and more.

GCE is proud of its team of experts, who are dedicated to providing leading solutions for our customers. We work with healthcare professionals and providers around the world, supporting them to meet the needs of their patients.

GCE Healthcare supplies oxygen therapy solutions to home oxygen providers who deliver healthcare services to patients at home. Many home oxygen providers count on our robust supply chain to deliver products to them when required.

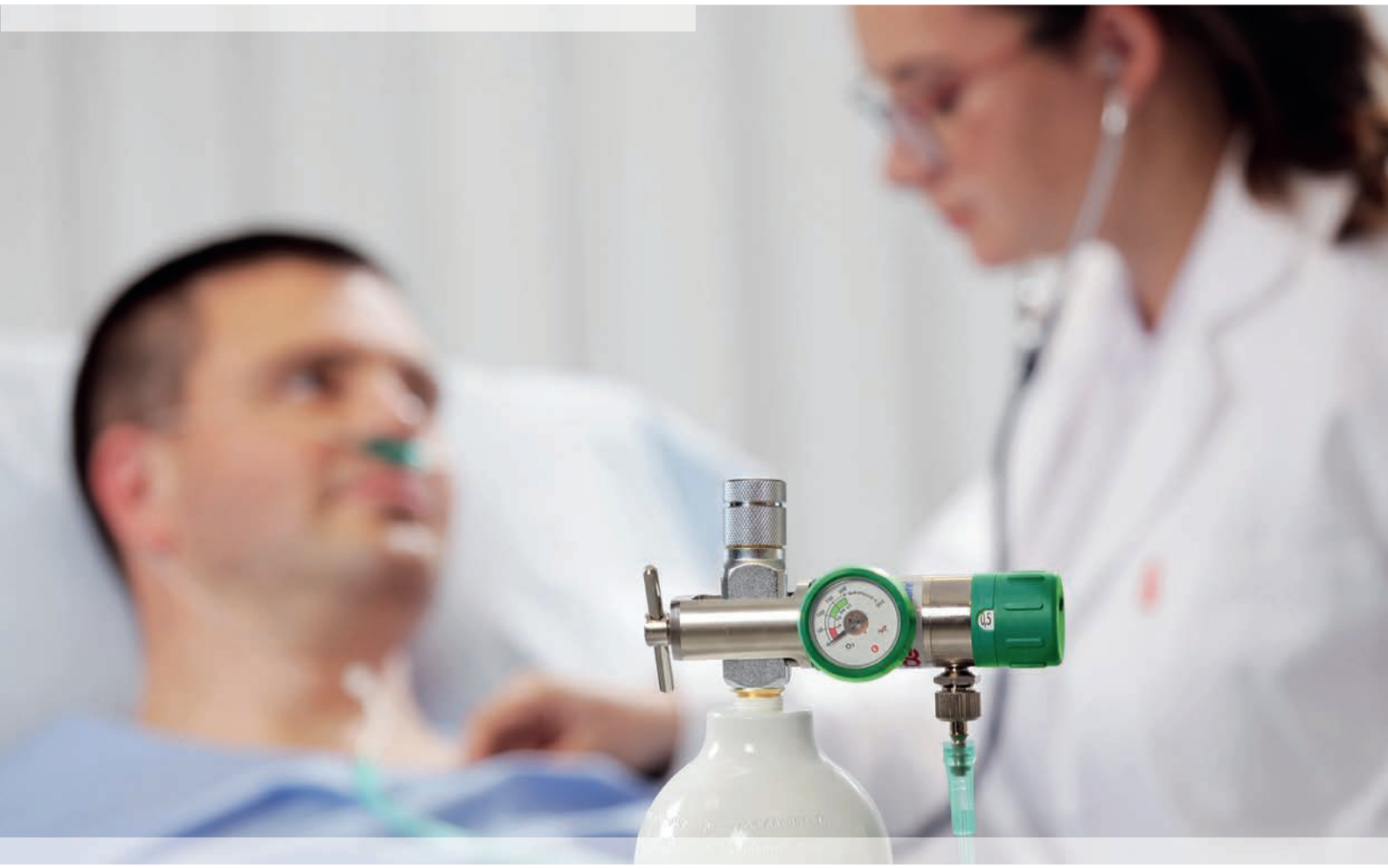
Our warehouses in the United Kingdom, Germany, and Czech Republic hold stock of our different products ensuring that we are able to respond quickly to the requirements of our customers.

We are leaders in this very important field and offer a range of competitive and industry leading products that include;

- Portable Oxygen Concentrators
- Stationary Concentrators
- Medical Cylinder regulators
- Electronic and pneumatic gas conserving devices
- Suction pumps
- Associated accessories

CONTENT

HIGH PRESSURE REGULATORS



GCE® Healthcare

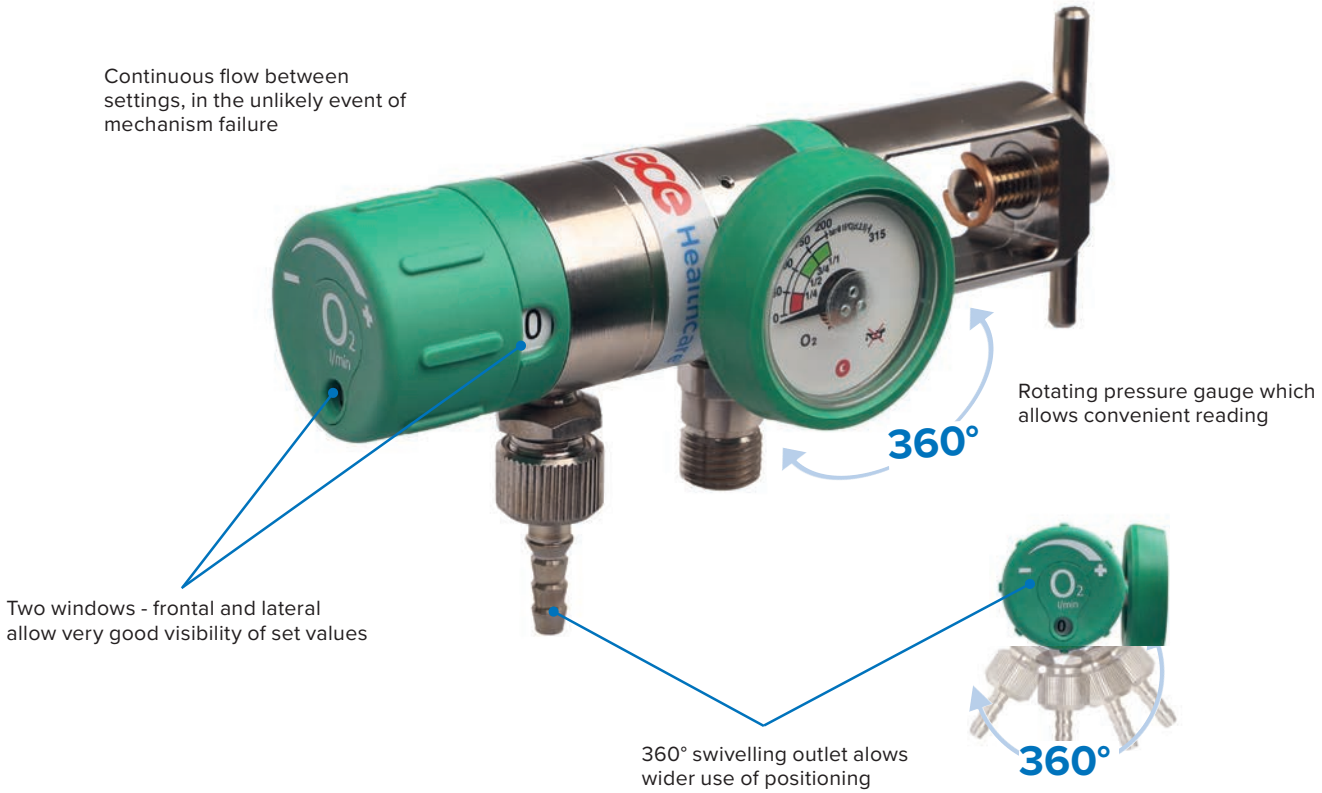
MEDICAL HIGH PRESSURE REGULATOR

MEDISELECT® II

GCE Medical Regulators are designed for use with high-pressure medical gas cylinders equipped with a medical cylinder valve. They regulate pressure and flow of medical gases to the patient. They are intended for the administration of medical gases in the treatment, management, diagnostic evaluation and care of the patient.

FEATURES / ADVANTAGES / BENEFITS

- Regulator with flow selector
- Rotating pressure gauge which allows convenient reading
- 360° swivelling outlet – it enables better orientation of the nasal cannula or oxygen mask towards the patient (preventing from twisting)
- Innovative self centering flow setting device with continuous flow between settings. In the unlikely event of indent mechanism failure, the patient will still be supplied with medical gas
- Lateral and frontal reading of flow settings
- Higher number of flow disc holes increases treatment options
- Extra flow setting of 25 lpm on the traditional 15 lpm variant, allows use in resuscitation
- The additional 7 lpm is intended for nebulization
- Free of preventive maintenance
- **GCE medical regulators are equipped with a unique anti-shock element that reduces the risk of adiabatic compression making the regulator more resistant to heat of recompression which leads to ignition.**



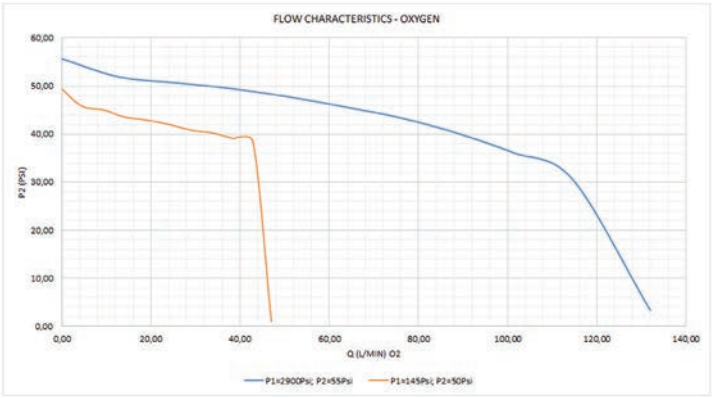
MEDISELECT® II

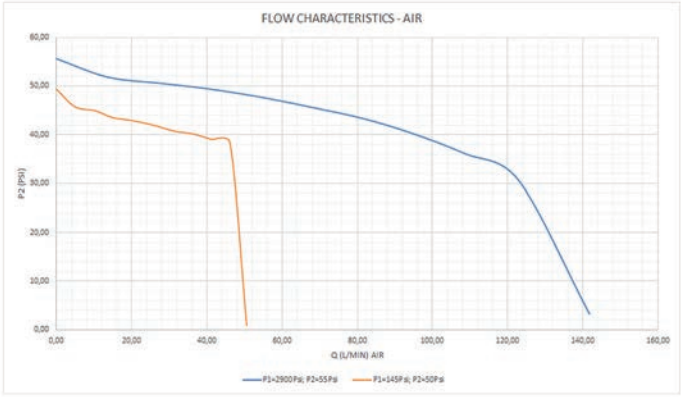
MediSelect® II is a high pressure medical gas regulator with a quick connector and flow selector. MediSelect® II is designed with a continuous flow mechanism between flow settings, which allows patients to receive gas therapy in the unlikely event of device failure.

Art. Nr.	Gas	Inlet	Outlet	Flow (lpm)	QC	Inlet pressure (psi)
0720101US	O_2	Pin Index	9/16	0-25	DISS	3000
0720102US	O_2	Pin Index	9/16	0-6	DISS	3000
0720103US	O_2	CGA540	9/16	0-25	DISS	3000
0720104US	O_2	CGA540	9/16	0-6	DISS	3000
0720105US	AIR	CGA346	9/16	0-25	DISS	3000
0720106US	AIR	CGA346	9/16	0-6	DISS	3000

TECHNICAL DATA	
Gas:	O_2, Air, N_2O, CO_2, N_2O/O_2, Xe
Inlet pressure range:	Up to 3000 psi
Nominal outlet pressure:	50 psi
Flow ranges*:	
0 to 2 lpm	0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 1, 1.5, 2
0 to 3 lpm	0, 1/64, 1/32, 1/16, 1/8, 1/4, 1/2, 3/4, 1, 1,5, 2, 3
0 to 6 lpm	0, 0.25, 0.5, 0.75, 1, 1.5, 2, 2.5, 3, 4, 5, 6
0 to 25 lpm	0, 1, 2, 3, 4, 5, 6, 7, 9, 12, 15, 25
Inlet connection:	According to national standards (CGA 540, CGA 346, CGA 870,...)
Outlet connection:	9/16 UNF, M12×1,25, G3/8, G1/4 with hose nipple
Pressure outlet:	DISS, Ohmeda, BSI, Chemetron, DIN, AFNOR, SS, CZ
Body material:	Nickel-plated brass
Control knob:	Polyamide
O-rings:	EPDM
Filter:	Sintered bronze
Gauge cover:	TPE (thermoplastic elastomer)
Regulatory status:	Complies with EN ISO 10524-1 (Pressure regulators for use with medical gases)
	Complies with EN 1789 (Medical vehicles and their equipment - Road ambulances)

** Flowrates expressed at 73.4°F and 101,3 kPa*
Product is not MRI compatible





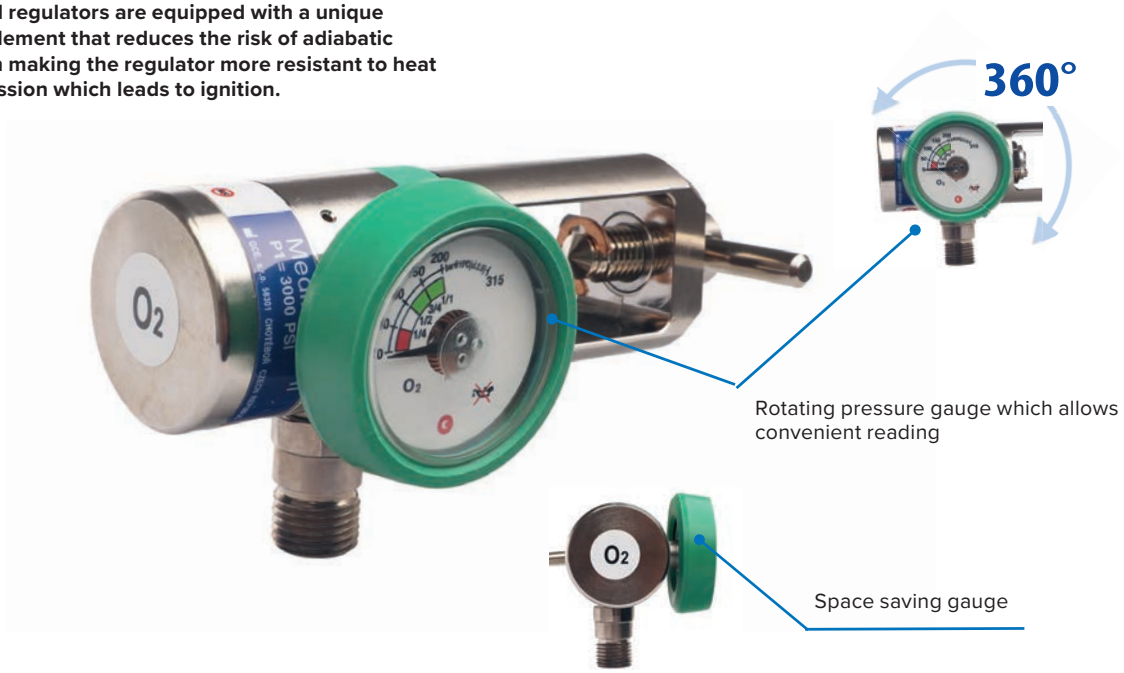
MEDICAL HIGH PRESSURE REGULATOR

MEDIREG® II

The new generation of medical high pressure gas regulators.

FEATURES / ADVANTAGES / BENEFITS

- Regulator with pressure outlet, constantly adjusted flow or with flowmeter
- Rotating pressure gauge which allows convenient reading
- Ergonomic and streamlined design
- Easy cleaning surface
- Compact and user friendly
- Low weight
- **GCE medical regulators are equipped with a unique anti-shock element that reduces the risk of adiabatic compression making the regulator more resistant to heat of recompression which leads to ignition.**



MEDIREG® II

Art. Nr.	Gas	Inlet	Outlet	QC	Inlet pressure (psi)
0724101US	O_2	Pin Index	-	DISS	3000
0724102US	O_2	CGA540	-	DISS	3000
0724103US	AIR	CGA346	-	DISS	3000

TECHNICAL DATA	
Gas:	O_2, Air, N_2O, CO_2, N_2O/O_2, Xe, Ar
Inlet pressure range:	Up to 3000 psi
Nominal outlet pressure:	50 psi
Inlet connection:	According to national standards (CGA 540, CGA 346, CGA 870,...)
Pressure outlet:	DISS, Ohmeda, BSI, Chemetron, DIN, AFNOR, SS, CZ
Body material:	Nickel-plated brass
Control knob:	Polyamide
O-rings:	EPDM
Filter:	Sintered bronze
Gauge cover:	TPE (thermoplastic elastomer)
Regulatory status:	Complies with EN ISO 10524-1 (Pressure regulators for use with medical gases)
	Complies with EN 1789 (Medical vehicles and their equipment - Road ambulances)

**Product is not MRI compatible*

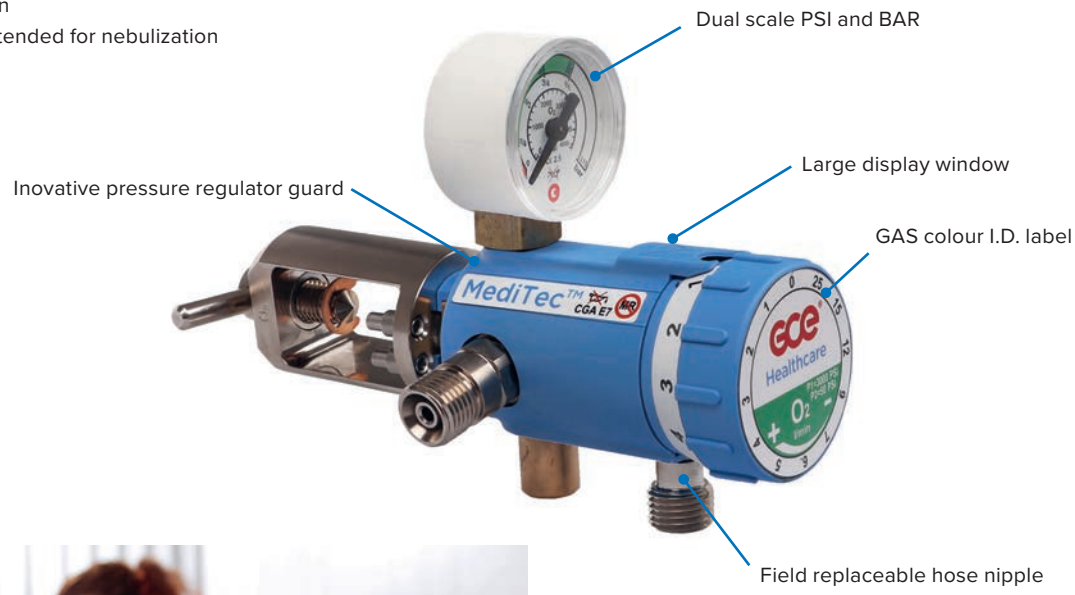
MEDICAL HIGH PRESSURE REGULATOR

MEDITEC™

New generation of GCE medical high pressure regulator MediTec™ is providing innovative design of valve body and body guard connected with already existing GCE design features known from MediVital®, MediSelect® II and other GCE products. MediTec™ is an alternative for MediSelect® II which has less features but during development we highly focused on safety, robustness and flow outlet stability. MediTec™ is typical regulator with fl ow selector and optionally could be fitted with pressure outlet (quick connector). Plastic guard is providing attractive ergonomic shape which can be easily cleaned.
GCE medical regulators are equipped with a unique anti-shock element that reduces the risk of adiabatic compression making the regulator more resistant to heat of recompression which leads to ignition.

FEATURES / ADVANTAGES / BENEFITS

- Low weight product
- Dual gauge scale - PSI and Bar
- Regulator with flow selector
- Designed in compliance of standard ISO EN 10524-1
- Optimally equipped with pressure outlet (Quick Connector)
- Innovative self centring of flow setting device with continuous flow between settings. In the unlikely event of indent mechanism failure, the patient will still be supplied by medicinal gas
- Higher number of flow disc holes increases treatment options. Extra flow setting of 25 lpm on the traditional 15 lpm variant, allows use in resuscitation
- The additional 7 lpm is intended for nebulization



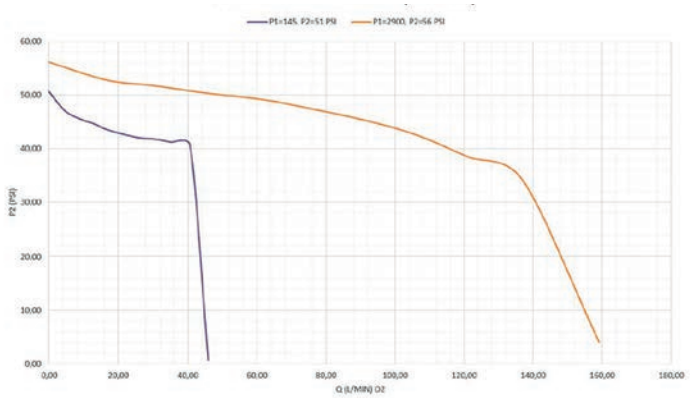
MEDITEC™

Art. Nr.	Gas	Inlet	Outlet	Flow (lpm)	QC	Inlet pressure (psi)
0721101US	O_2	Pin Index	9/16	0-25	DISS	3000
0721102US	O_2	Pin Index	9/16	0-6	DISS	3000
0721103US	O_2	CGA540	9/16	0-25	DISS	3000
0721104US	O_2	CGA540	9/16	0-6	DISS	3000
0721105US	AIR	CGA346	9/16	0-25	DISS	3000
0721106US	AIR	CGA346	9/16	0-6	DISS	3000

TECHNICAL DATA		
Gas:	O_2, Air, N_2O, CO_2, O_2/N_2O	
Inlet pressure range:	Up to 3000 psi	
Nominal outlet pressure:	50 psi	
Flow ranges*:	0 to 2 lpm	0;0,1;0,2;0,3;0,4;0,5;0,6;0,7;0,8;1;1,5;2
	0 to 6 lpm	0;0,25;0,5;0,75;1;1,5;2;2,5;3;4;5;6
	0 to 25 lpm	0;1;2;3;4;5;6;7;9;12;15;25
Inlet connection:	According to national standards (CGA 540, CGA 346, CGA 870,...)	
Outlet connection:	9/16 UNF, M12×1,25, G3/8, G1/4 with hose nipple	
Pressure outlet:	DISS, Ohmeda, BSI, Chemetron, DIN, AFNOR, SS, CZ	
Body material:	Nickel-plated brass	
Control knob:	Polyamide	
O-rings:	EPDM	
Filter:	Sintered bronze	
Gauge cover:	TPE (thermoplastic elastomer)	
Regulatory status:	Complies with EN ISO 10524-1 (Pressure regulators for use with medical gases)	
	Complies with EN 1789 (Medical vehicles and their equipment - Road ambulances)	

** Flowrates expressed at 73.4°F and 101,3 kPa*
Product is not MRI compatible

FLOW CURVE FOR OXYGEN (P2 = 50PSI)



VARIMED

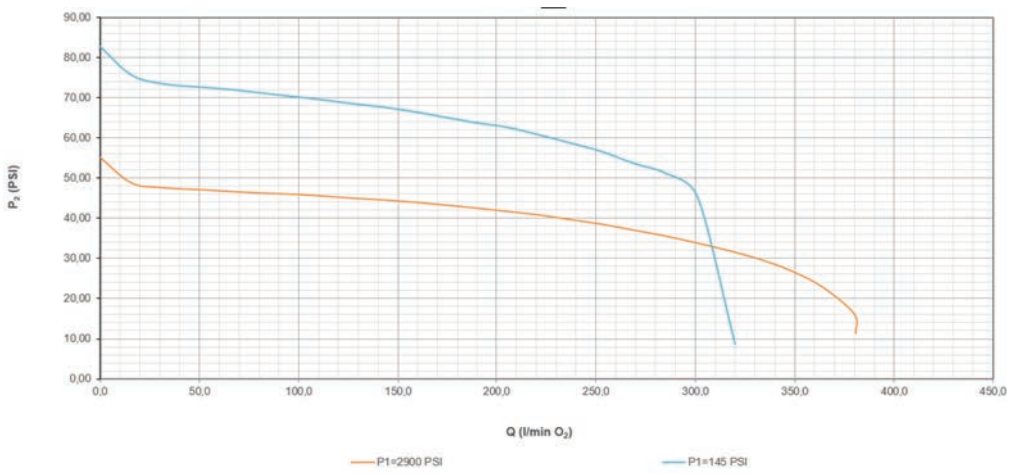
Varimed is a single stage high pressure regulator with high flow capacity designed for connection to high-pressure cylinders equipped with shut-off valves, and to distribution systems. They regulate pressure and flow of medical gases to the patient. They are intended for the administration of the medical gases in the treatment, management, diagnostic evaluation and care of the patient.

Art. Nr.	Gas	Inlet	Outlet	QC	Inlet pressure (psi)
0729100US	O_2	CGA540	9/16	DISS	2900
0729102US	O_2	CGA870	9/16	DISS	2900
0729104US	AIR	CGA346	9/16	DISS	2900
0729105US	N20	CGA326	9/16	DISS	750

TECHNICAL DATA	
Gas:	O_2, Air, N_2O
Inlet pressure range:	Up to 3000 psi
Nominal outlet pressure:	50 psi
Inlet connection:	According to national standards (CGA 540, CGA 346, CGA 870,...)
Outlet connection:	9/16 UNF, M12×1,25, G3/8, G1/4 with hose nipple
Body material:	Nickel-plated mazak
Bonet material:	Painted mazak
Control knob:	Polyamide
O-rings:	EPDM
Filter:	Sintered bronze
Gauge cover:	TPE (thermoplastic elastomer)
Weight:	2.4 bls
Regulatory status	Complies with EN ISO 10524-1 (Pressure regulators for use with medical gases)
	Complies with EN 1789 (Medical vehicles and their equipment - Road ambulances)

**Product is not MRI compatible*

FLOW CHARACTERISTIC



VARIMED+

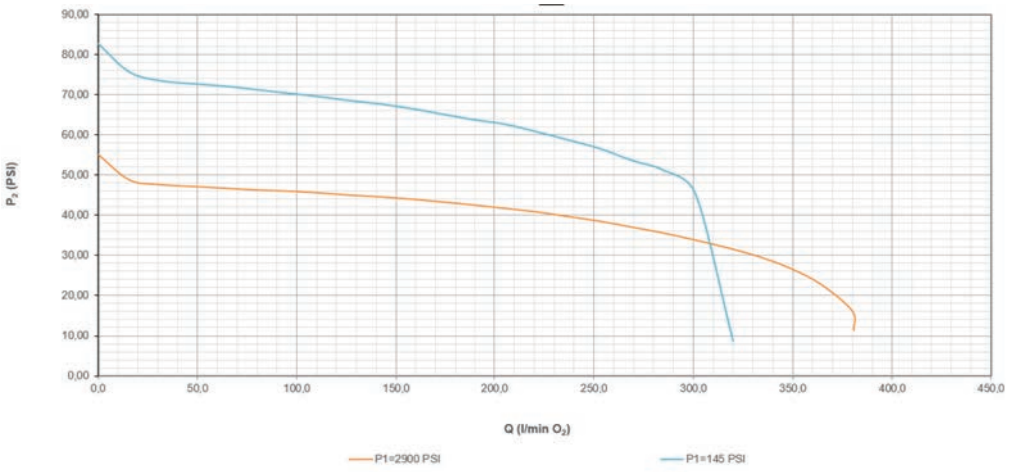
Varimed+ is a single stage high pressure regulator with high flow capacity, designed to be connected to high pressure systems according to 10524-2, they are to be used in emergency as back up gas supply for the hospital pipeline system.
They are NOT designed for direct use with patient.

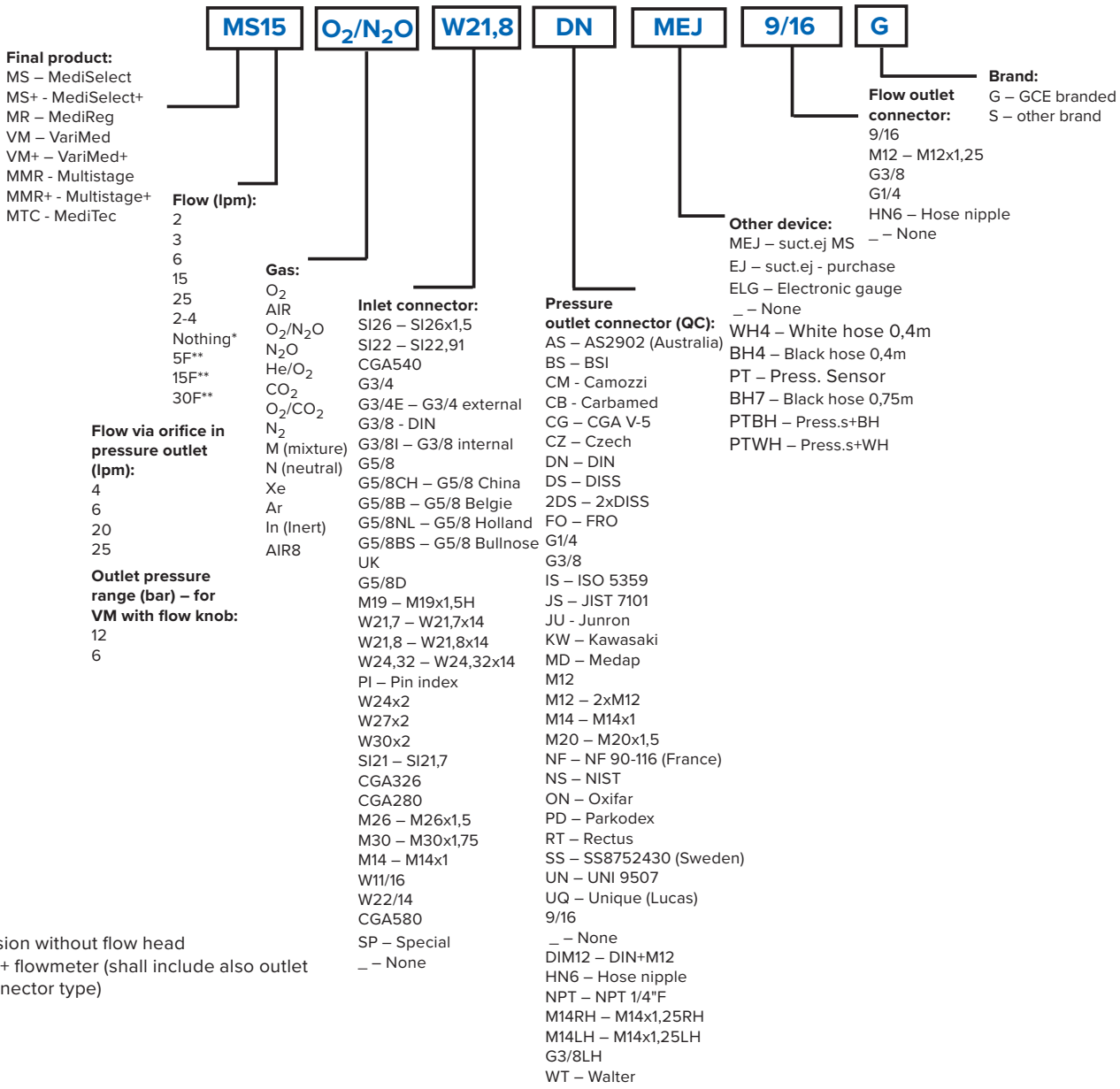
Art. Nr.	Gas	Inlet	Outlet	QC	Inlet pressure (psi)
0729101US	O_2	CGA540	9/16	DISS	2900
0729103US	O_2	CGA870	9/16	DISS	2900

TECHNICAL DATA	
Gas:	O_2, Air, N_2O
Inlet pressure range:	Up to 3000 psi
Nominal outlet pressure:	50 psi
Inlet connection:	According to national standards (CGA 540, CGA 346, CGA 870,...)
Outlet connection:	9/16 UNF, M12×1,25, G3/8, G1/4 with hose nipple
Body material:	Nickel-plated mazak
Bonet material:	Painted mazak
Weight:	2.4 bls

**Product is not MRI compatible*

FLOW CHARACTERISTIC





* Version without flow head

** MR + flowmeter (shall include also outlet connector type)

HOSPITAL WARD EQUIPMENT

GCE® Healthcare

FLOW-METERING DEVICE
MEDIMETER®

Medimeter® is a gas flow device intended for control and measurement of air and oxygen administered to patients. Medimeter® flow devices are available in different regional gas connections.

FEATURES / ADVANTAGES / BENEFITS

- Flat surface float allows easy and safe reading of flow values by the users
- Ergonomic design, easy for cleaning
- Available with probe connector, rail mounting with a hose and twin versions
- Soft closing mechanism
- Robust float, resistant against impact
- New scale - better reading of flow values

Medimeter® with 30 lpm scale

Medimeter® with 5 lpm scale

MEDIMETER®

Art. Nr.	Gas	Outlet	Flow (lpm)	Probe
0730101US	O_2	9/16	0-15	DISS
0730102US	O_2	9/16	0-5	DISS
0730103US	O_2	9/16	0-15	DISS Duo
0730104US	AIR	9/16	0-15	DISS
0730105US	AIR	9/16	0-15	DISS Duo

TECHNICAL DATA	
Gas:	O_2, Air
Inlet pressure:	50 psi
Flow ranges:	0 - 5 lpm
	0 - 15 lpm
	0 - 30 lpm
Inlet connection:	DISS,Ohmeda, BSI, Chemetron
Outlet connection:	9/16” UNF; M12×1.25; G3/8; G1/4 (with hose nipple)
Body material:	Nickel-plated brass
O-rings:	EPDM
Control knob:	Polyamide
Body dimensions:	
Width:	1.25inch (32 mm)
Height:	6.3inch (160 mm)
Depth:	2.4inch (60 mm)
Weight	280 g (without connector)
Temperature range:	
Storage:	-22/+140 °F
Operation:	-4/+140 °F
Regulatory status:	Complies with EN 15 002 (Flow - metering devices for connection to terminal units)

Product is not MRI compatible

Medimeter® in ambulance car connected to GCE Terminal Unit

Probe version

Reail clamp version

DUO probe version

FLOW-METERING DEVICE

MEDIFLOW® ULTRA II

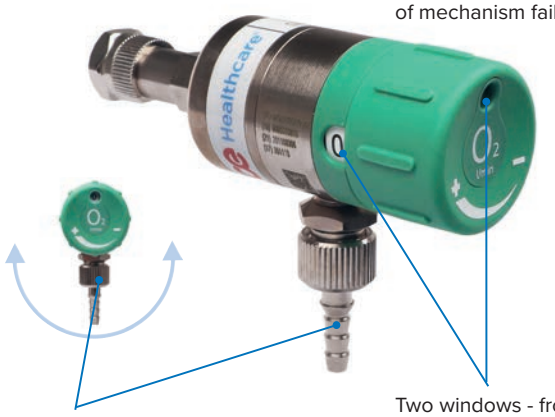
MediFlow® Ultra II is the new generation of medical gas flow selector device with built-in regulator. It covers a comprehensive combination of inlet and outlet connections and offers various options for all medical applications, from neonatal care through to resuscitation.

FEATURES / ADVANTAGES / BENEFITS

- Built-in regulator provides a very stable and precise flow, independent of the pressure in the medical central gas system or cylinder.
- Innovative self centering flow setting device with continuous flow between settings. In the unlikely event of indent mechanism failure, the patient will still be supplied by medicinal gas.
- Lateral and frontal reading of flow settings.
- 360° swivelling outlet – it enables better orientation of the nasal cannula or oxygen mask towards the patient (preventing from twisting).
- Higher number of flow disc holes increases treatment options. Extra flow setting of 25 lpm on the traditional 15 lpm variant, allows use in resuscitation. The additional 7 lpm is intended for nebulization.
- Ergonomic and streamlined design.

Independence of the pressure fluctuation with inlet pressure range of 40 - 120 psi

Continuous flow between settings, in the unlikely event of mechanism failure.



360° swivelling outlet alows wider use of positioning

Two windows - frontal and lateral allow very good visibility of set values

Flow selector connected to hospital terminal unit

Art. Nr.	Gas	Outlet	Flow (lpm)	Probe
0726501US	O_2	9/16	0-25	DISS
0728102US	AIR	9/16	0-25	DISS

TECHNICAL DATA		
Inlet pressure range:	40 - 120 psi	
Max. outlet pressure:	30 psi (without flow)	
Flow ranges:	0 - 25 lpm	0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 9 - 12 - 15 - 25
Inlet connection:	DISS,Ohmeda, Chemetron	
Outlet connection:	9/16 UNF; M12×1.25; G3/8; G1/4 with hose nipple	
Body material:	Nickel-plated brass	
Control knob:	polyamide	
O-rings:	EPDM	
Filter:	sintered bronze and stainless steel	
Body dimensions:		
Diameter:	1.5inch	
Length:	3inch	
Weight:	350 g	
Regulatory status:	Complies with EN 10524-4 (Low pressure regulators)	
	Complies with Standard EN 1789 (Medical vehicles and their equipment)	

** Flowrates expressed at 73.4 °F and 101,3 kPa*
Product is not MRI compatible

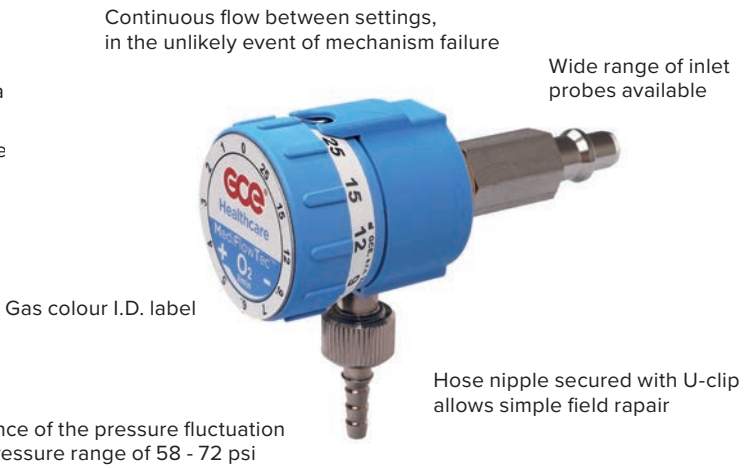
MEDICAL CLICK STOP FLOW METERING DEVICE

MEDIFLOWTEC™

MediFlowTec™ is providing innovative design of valve body and body guard connected with already existing GCE design features known from MediVital®, MediSelect® II and other GCE products. MediFlowTec™ is an alternative for MediFlow® Ultra II or MediFlow which has less features but during development we highly focused on safety, robustness and flow accuracy.
A whole range of variants and approx 13 diff erent country standards are available

FEATURES / ADVANTAGES / BENEFITS

- 2 /6 /15 /25 lpm version available
- Short unit, space-saving in ambulances
- Versions available: short, long, DY, NIST clamp, DY NIST cla
  > 12 country standards and 2 different outlets
- 10 years lifetime, service free, fi eld rep instruction available
- Full Flow scale visible (next flow values)
- MRI compatible
- Wide range



TECHNICAL DATA	
Gas:	O_2, Air
Inlet pressure range:	58-72 psi
Flow ranges:	0 to 2 lpm
	0 to 6 lpm
	0 to 15 lpm
	0 to 25 lpm
Inlet connection:	DISS, Ohmeda, Chemetron
Outlet connection:	9/16 UNF; M12×1.25; G3/8; G1/4 with hose nipple
Body material:	Brass
Control knob:	Polyamide
O-rings:	EPDM
Filter:	Sintered bronze and stainless steel
Body dimensions:	
Diameter:	1.25inch
	6.3inch
Length:	2.4inch
Weight:	280 g (without connector)
Temperature range:	
Storage:	-22/+140°F
Operation:	-22/+140°F
Regulatory status:	Complies with EN 15 002 (Flow - metering devices for connection to terminal units)
	Complies with Standard EN 1789 (Medical vehicles and their equipment)

** Flowrates expressed at 73.4 °F and 101,3 kPa*

Product is not MRI compatible!

MEDIFLOWTEC™

Art. Nr.	Description	Gas	Version	Inlet
726500241US	MFT 2 O2 DS G	O2	Probe	DS
726500244US	MFT 6 O2 DS G	O2	Probe	DS
726500247US	MFT 15 O2 DS G	O2	Probe	DS
726500250US	MFT 15 AIR DS G	AIR	Probe	DS
726500253US	MFT 25 AIR DS G	AIR	Probe	DS
726500242US	MFT 2 O2 DS G	O2	Extended Probe*	DS
726500245US	MFT 6 O2 DS G	O2	Extended Probe*	DS
726500248US	MFT 15 O2 DS G	O2	Extended Probe*	DS
726500251US	MFT 15 AIR DS G	AIR	Extended Probe*	DS
726500254US	MFT 25 AIR DS G	AIR	Extended Probe*	DS

Art. Nr.	Description	Gas	Version	Inlet
726500243US	MFT 2 O2 DS G	O2	DUO Y Probe	DS
726500246US	MFT 6 O2 DS G	O2	DUO Y Probe	DS
726500249US	MFT 15 O2 DS G	O2	DUO Y Probe	DS
726500252US	MFT 15 AIR DS G	AIR	DUO Y Probe	DS
726500255US	MFT 25 AIR DS G	AIR	DUO Y Probe	DS

Art. Nr.	Description	Gas	Version	Inlet
726500256US	MFT 2 O2 OH G	O2	Probe	OH
726500259US	MFT 6 O2 OH G	O2	Probe	OH
726500262US	MFT 15 O2 OH G	O2	Probe	OH
726500265US	MFT 25 O2 OH G	O2	Probe	OH
726500268US	MFT 15 AIR OH G	AIR	Probe	OH
726500271US	MFT 25 AIR OH G	AIR	Probe	OH
726500257US	MFT 2 O2 OH G	O2	Extended Probe*	OH
726500260US	MFT 6 O2 OH G	O2	Extended Probe*	OH
726500263US	MFT 15 O2 OH G	O2	Extended Probe*	OH
726500266US	MFT 25 O2 OH G	O2	Extended Probe*	OH
726500269US	MFT 15 AIR OH G	AIR	Extended Probe*	OH
726500272US	MFT 25 AIR OH G	AIR	Extended Probe*	OH

Art. Nr.	Description	Gas	Version	Inlet
726500258US	MFT 2 O2 OH G	O2	DUO Y Probe	OH
726500261US	MFT 6 O2 OH G	O2	DUO Y Probe	OH
726500264US	MFT 15 O2 OH G	O2	DUO Y Probe	OH
726500267US	MFT 25 O2 OH G	O2	DUO Y Probe	OH
726500270US	MFT 15 AIR OH G	AIR	DUO Y Probe	OH
726500273US	MFT 25 AIR OH G	AIR	DUO Y Probe	OH

Art. Nr.	Description	Gas	Version	Inlet
726500274US	MFT 2 O2 CH G	O2	Probe	CH
726500277US	MFT 6 O2 CH G	O2	Probe	CH
726500280US	MFT 15 O2 CH G	O2	Probe	CH
726500283US	MFT 25 O2 CH G	O2	Probe	CH
726500286US	MFT 15 AIR CH G	AIR	Probe	CH
726500289US	MFT 25 AIR CH G	AIR	Probe	CH
726500275US	MFT 2 O2 CH G	O2	Extended Probe*	CH
726500278US	MFT 6 O2 CH G	O2	Extended Probe*	CH
726500281US	MFT 15 O2 CH G	O2	Extended Probe*	CH
726500284US	MFT 25 O2 CH G	O2	Extended Probe*	CH
726500287US	MFT 15 AIR CH G	AIR	Extended Probe*	CH
726500290US	MFT 25 AIR CH G	AIR	Extended Probe*	CH

Art. Nr.	Description	Gas	Version	Inlet
726500276US	MFT 2 O2 CH G	O2	DUO Y Probe	CH
726500279US	MFT 6 O2 CH G	O2	DUO Y Probe	CH
726500282US	MFT 15 O2 CH G	O2	DUO Y Probe	CH
726500285US	MFT 25 O2 CH G	O2	DUO Y Probe	CH
726500288US	MFT 15 AIR CH G	AIR	DUO Y Probe	CH
726500291US	MFT 25 AIR CH G	AIR	DUO Y Probe	CH

Probe version

Probe extension version (35 mm)

Rail clamp with NIST connector and hose, Standard hose lenght 4,9ft, other lenghtes confiurable. The clamp is suitable for the rail dimensions: 1x0,3 inch, 1x0,4 inch, 1,2x0,4 inch and 1,4x0,4 inch.

DUO Y probe version

DUO clamp version

DESCRIPTION CODING FOR HOSPITAL WARD EQUIPMENT

MFT **DY** **AIR** **DN120-CN1,5** **9/16** **G**

Final product:
MM – Medimeter
MFU – Mediflow Ultra II
MF – Mediflow II
MF+ – Mediflow+
MFT – MediflowTec
MEJ – Medieject
ME+ – Medievac+
DUOLINE - Duoline

Flow (lpm):
2
5
6
15
25
30
50
15+5

Vacuum (mmHg):
187,5
450
750
750+187,5

Duo version
M (Multistar)
M5 (Multistar 5)
DY (Y shape)
DS (straight shape)
D (for CN and CE)

Gas:
O_2
AIR
O_2-AIR
(use for both)
For Medievac will not be used VAC

Inlet connector (QC):
AS – AS2902 (Australia)
BS – BSI
CB - Carbamed
CG – CGA V-5
CZ – Czech
DN – DIN
DS – DISS
FO – FRO
CH - Chemetron
IS – ISO 5359
JS – JIS T 7101
JU - Junron
KW – Kawasaki
MD – Medap
M12 – M12x1 F, no QC
M10 – no QC
NF – NF 90-116 (Francie)
NS – NIST
OH - Ohmeda
ON – Oxifar
PD - Parkodex
SS – SS8752430 (Sweden)
UN – UNI 9507
G1/4M
WT – Walter

Angle of QC:
Nothing - straight
90 – 90°
120 – 120°

Rail mounting:
CE – clamp EU
CN – clamp Nordic
PM – plate metal
CS – clamp with screw
WP – wall plate (for M5)
CM – clamp metal
CP – clamp plastic
(univers.FLM shall be replaced)

Length of hose (m):
1
1.5
3

Outlet connector:
G3/8
9/16
G1/4
M12 – M12x1,25
G1/2 (vacuum)

Brand:
G - GCE standard product
S - special product variant

VACUUM REGULATOR

MEDIEVAC+

FEATURES / ADVANTAGES / BENEFITS

- Compact and lightweight medical vacuum regulator system, which allows the user to efficiently and safely control suction therapy
- The suction level of the Medievac+ is regulated via an easy accessible, front mounted control knob
- A special feature of the Medievac+ on-off valve is easy resumption of the selected de-pressure value, when the treatment is interrupted
- The Medievac+ gauge can easily be rotated, allowing the vacuum pressure to be clearly viewed by the operator
- The gauge scale is colour coded in sections to display a clear indication of suction level
- Three versions of adjustable pressures are available to cover all therapy needs (-187,5; -450 and -750 mmHg)
- The -187,5; version has a safety valve, which will automatically shut off to guarantee maximum protection of the patient, in the unlikely event of de-pressure increase

THE COMPACTNESS OF THE DEVICE OFFERS

- Fast connection to the vacuum source
- Quick and convenient mounting of accessories (for example safety jar)
- Good accessibility of other devices connected to close located terminal units

CONTROL KNOB

The 'most' technical control knob is designed with a mechanism which ensures it cannot be broken if it is overtightened.

ROTATING GAUGE

ADVANTAGE FOR NURSES:
Orientate the gauge in your direction in order to read the setting.

ADVANTAGE FOR TECHNICAL:
Absence of visible thread on foot allows a better resistance of the body in every replacement.

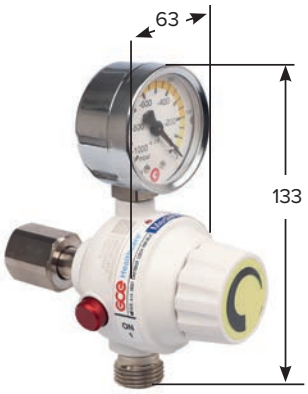
ON/OFF SWITCH

Allows maintain the setting during use: the visible color shows the functionality status of the regulator: (green = working; red = stopped)

EFFICIENT!

Maximum flow of 70 lpm clean lines for a more effective cleaning.

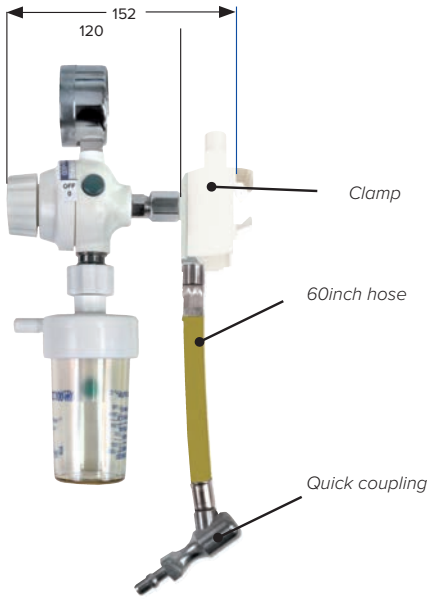
VACUUM REGULATOR - MEDIEVAC+



Art. Nr.	Max. inlet pressure (mmHg)	Outlet	Probe
0735101US	750	G1/2	DISS
0735102US	450	G1/2	DISS
0735103US	187,5	G1/2	DISS

TECHNICAL DATA	
ON-OFF function:	ON: green button visible
	To switch ON: push on the red button
Outlet pressure:	- 187,5 mmHg (Measured from atmospheric pressure)
	- 450 mmHg
	- 750 mmHg
Max. outlet pressure:	-187,5 mmHg , -450 and -750
Inlet connection:	DISS
Outlet connection:	G1/2
Max. suction flow:	70 lpm ±5 lpm
Accuracy of gauge:	±2,5 % of full scale
Safety valve:	Medievac+ 187,5 only, max. - 217 mmHg opening
Inlet connection:	DISS, Ohmeda, Chemetron
Outlet connection:	G1/2” male
Height:	5.2inch; 10.2inch (with safety jar)
Width:	1.4inch
Depth:	3inch (without connector) EEC
Body material:	ABS
Regulatory status:	Complies with EN ISO 10079-3 (Medical suction Equipment, Part 3: Suction equipment powered from a vacuum or pressure source)

Product is not MRI compatible



LOW PRESSURE HOSES FOR MEDICAL GASES

Low-pressure hoses are intended for the transfer of medical gases or vacuum, and/or the connection of two medical products (e.g. a pressure regulator with an emergency ventilator).

> Maximum working pressure 200 psi
> The hoses for medical breathing oxygen and nitrous oxide are marked with the chemical denomination of the gas.
> The medical breathing air hose is marked ”Air”.
> Warranty time 2 years

Art. Nr.	Denomination	Color	Environment	Dimension (inner/outer) mm	Roll (ft)
14119000	O_2	white	Antistatic	6.7/12.7	98
14119001	O_2	black	Antistatic	6,7/12,7	98
14119002	Medical breathing air/ O_2	black	Antistatic	6,7/12,7	98
14119003	O_2	green	Antistatic	6,7/12,7	98
14119004	Medical breathing air	black	Antistatic	6,7/12,7	98
14119006	LOT	black	Antistatic	6,7/12,7	98
14119008	Medical breathing air	black/white	Antistatic	6,7/12,7	98
14119010	VAC	yellow	Antistatic	10/16	98
14119009	N_2O	blue	Antistatic	6,7/12,7	98
14119011	O_2 /N_2O	blue/white	Antistatic	6,7/12,7	98
14119038	CO_2	white	Antistatic	6,7/12,7	98
14119040	Medical breathing air	black/white	Antistatic	8/14	98
14119041	CO_2	grey	Antistatic	6/11	98

MEDICONNECT

> Resistant to abrasion and change of colour
> Latex and phthalate free
> Containing antistatic inner layer
> Colour coding of ISO 5359
> Wide range of country specific connections
> Lengths of hoses from 0.5 to 5 m; to be specified by customer, available on request

Art. Nr.	Denomination	Color	Connection	Environment	Dimension (inner/outer) mm	Lenght inc/ft
0731001US	O_2	green	DSF/DSF	Antistatic	6.7/12.7	39/3.3
0731002US	O_2	green	DSF/DS	Antistatic	6,7/12,7	39/3.3
0731003US	O_2	green	DSF/DSF	Antistatic	6,7/12,7	78/6.6
0731004US	O_2	green	DSF/DS	Antistatic	6,7/12,7	78/6.6
0731005US	Medical breathing air	yellow	DSF/DSF	Antistatic	6,7/12,7	39/3.3
0731006US	Medical breathing air	yellow	DSF/DS	Antistatic	6,7/12,7	39/3.3
0731007US	Medical breathing air	yellow	DSF/DSF	Antistatic	10/16	78/6.6
0731008US	Medical breathing air	yellow	DSF/DS	Antistatic	6,7/12,7	78/6.6
0731009US	VAC	white	DSF/DSF	Antistatic	6,7/12,7	39/3.3
0731010US	VAC	white	DSF/DS	Antistatic	6,7/12,7	39/3.3
0731011US	VAC	white	DSF/DSF	Antistatic	8/14	78/6.6
0731012US	VAC	white	DSF/DS	Antistatic	6/11	78/6.6

TECHNICAL DATA	
Gas pressure:	O_2, air, N_2O, vacuum, CO_2, N_2O/O_2 and Air 800
Material:	Polyvinyl chlorid, containing plasticizer, with brilliant polish, antistatic
Inner/outer diameter:	6.7 × 12.7 mm (vacuum excluded - VAC 10x16 mm)
Wall:	3 mm
Hardness (Shore A):	88 ± 5
Density:	1.25 ± 0.02 g/cm^3
Tensile strength:	= 10 MPa
Fracture strain:	= 200 %
Working pressure:	max. 200 psi / 68 °F
Rupture pressure:	812 psi / 68°F resp. 580 psi / 104°F
Operation temperature	-4/+140 °F
Classification:	Class IIa
Regulatory status:	Complies with ISO 5359 (Low pressure hoses)

EXAMPLES OF PROBES

NORDIC STANDARD

FRENCH STANDARD

DISS STANDARD

CZECH STANDARD

BRITISH STANDARD

NIST STANDARD

GERMAN STANDARD

EXPLANATION OF THE ORDERING INFORMATION

MCN | **O_2** | **BL** | **S** | **0,5 m** | **DN 120 - M12M** | **G**

Final product:
MCN - Mediconnect

Gases:
O_2
AIR
N_2O
VAC
CO_2
O_2-AIR

Colors of hose:
BLC = black
WH = white
BL/WH = black/white
BLU/WH = blue/white
GRN = green
BLU = blue
YEL = yellow
GRY = grey

Making of spiral hose:
S (only when spiral hose)

Length of hoses (m):
0,5
1
1,5
3
4
5

1. and 2. connectors):
BS – BSI
CB - Carbamed
CZ – Czech
DN – DIN
DN5
DNF – DIN QC
DNRPV – DIN with RPV
DS – DISS
FO – FRO
CH - Chemetron
JU - Junron
KW – Kawasaki
MD – Medap
M12M – M12x1M
M15M – M15x1M
M17M – M17x1M
M20F – M20x1,5F
NF – NF
NS – NIST
OH - Ohmeda
ON – Oxifar
PD – Parkodex
R1/4F
SS – SS8752430 (Sweden)
UN – UNI 9507
UQ – Unique (Lucas)
WT – Walther
9/16F
G3/8F

90 = 90°
12 = 120°

Brand:
G - GCE standard product
S - special product variant

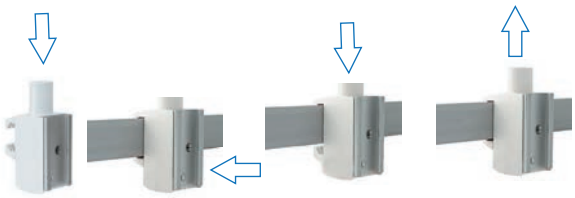
RAILS AND CLAMPS

Rail clamps are parts of rail systems and are intended for fastening the medical devices (flowmeters, suction equipment, lighting, etc.) to the railing. Design of new GCE rail clamps provides a high level of modularity. Max. load at vertical axis - 110 lbs.

FEATURES / ADVANTAGES / BENEFITS

- The Mediclamp is universal and can be applied to all applicable rail systems; 1: 10 x 25 mm, 2: 10 x 30 mm
- Easy to clean
- Light in weight
- Spring activated
- Ergonomic shape
- MRI compatible
- Fulfills the Ambulance standards

MOUNTING OF CLAMP



VARIABLE INSERTS

PERMANENT CONNECTIONS
Special aluminum plate for permanent connection with the products like MediEject, Duoline etc.

The plate can be simply adapted to customer needs by making additional holes.

SPK33810004

T-SLIDE
T-slide insert made from aluminum for T-plate application

0727435

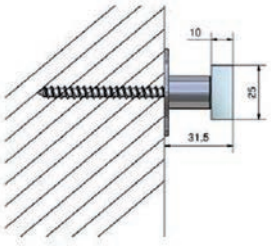
RAIL CLAMP HOSE KIT
The main body of the kit (gas flow passage) made from aluminum intended for connection of a flexible hose or NIST QC.

SPK33810006

EU RAIL COMPLETE (25×10 EU), WITHOUT SCREWS

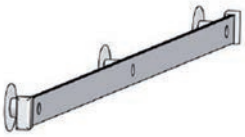
Art. Nr.	Denomination (inc/ft)	Material
325197656	39/ 3.3	Stainless Steel
325197657	58.5/4.95	Stainless Steel
325197658	78/6.6	Stainless Steel
325197659	117/9.9	Stainless Steel
325113122*	117/9.9	Stainless Steel

** Only rail, without end protection washer and distance.*



ACCESSORIES

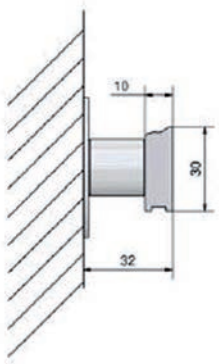
Art. Nr.	Description	Material
325112959	Distance 20 mm	Stainless Steel (pack of 5)
325112960	Washer D 40 mm	Stainless Steel (pack of 5)
325112961	End protection	Plastic



RAIL COMPLETE (30x10 NORDIC), WITHOUT SCREWS

Art. Nr.	Denomination (inc/ft)	Material
325197665	39/ 3.3	Aluminium
325197666	58.5/4.95	Aluminium
325197667	78/6.6	Aluminium
325197668	117/9.9	Aluminium
183037406P*	117/9.9	Aluminium

** Only rail, without end protection washer and distance.*



ACCESSORIES

Art. Nr.	Description	Material
180901001P	End protection (10 pcs)	Plastic
182037404P	Washer (10 pcs)	Aluminium
329000223	Distance 20 mm	Aluminium

HOMECARE

GCE® Healthcare

LIGHTWEIGHT PORTABLE OXYGEN CONCENTRATOR

ZEN-O lite™

Zen-O lite™ is a lightweight portable oxygen concentrator from GCE Healthcare that delivers up to 1050ml of oxygen to patients that require long term oxygen therapy. Zen-O lite™ is simple to use and is suitable for everyday use. Zen-O lite™ is manufactured to the exacting standards of the European Medical Device Directive and the United States Food and Drug Administration.

FEATURES / ADVANTAGES / BENEFITS

- **REPLACEABLE SIEVE MODULES**
  Zen-O *lite*™ is designed with easily replaceable sieve modules. The sieve modules can be swapped in under 5 minutes by either the user or home oxygen provider.
- **BREATH DETECTION INDICATOR**
  A system indicator flashes each time a breath is detected during use, giving users the assurance that oxygen is being delivered.
- **ALARM**
  Zen-O *lite*™ is designed with various audible and visual alarms, to prompt the user of a required action.
- **SUITABLE FOR AIR TRAVEL**
  Zen-O *lite*™ is suitable for air travel and has met all relevant international safety standards including guidelines issued by the United States Federal Aviation Administration (FAA).
- **ECO MODE**
  The Eco Mode feature allows users to switch the operation of the device from delivery a fixed pulse of oxygen at each inhalation to a fixed volume of oxygen per minute, to allow for longer battery duration.
- **AUTO-MODE**
  The Auto-mode feature activates after 60 seconds if no breath is detected, the device will automatically deliver pulses at a rate of 18 breaths per minute to the user. This feature allows users to continue receiving some oxygen if the cannula is dislodged.

ZEN-O *lite*™ - PORTABLE OXYGEN CONCENTRATOR

Zen-O lite™ carry bag

Zen-O lite™ rucksack

Battery

AC power supply

DC power supply

Art. Nr.	Description
RS-00608-X-S	Zen-O lite™ portable oxygen concentrator with one 8 cell battery
RS-00608X-D	Zen-O lite™ portable oxygen concentrator with two 8 cell batteries
RS-00608C-X-S	Zen-O lite™ with Clarity portable oxygen concentrator with one 8 cell battery
RS-00608XC-D	Zen-O lite™ with Clarity portable oxygen concentrator with two 8 cell batteries
RS-00601	Zen-O lite™ rechargeable battery
RS-00604	Zen-O lite™ AC power supply w/US cord
RS-00605	Zen-O lite™ DC power supply
RS-00606	Zen-O lite™ carry bag
RS-00616	Replacement sieve modules
RS-00617	Zen-O lite™ cannula wrench
RS-00619	Zen-O lite™ rucksack
RS-00512*	Zen-O lite™ cannula filter pk of 10
RS-00515*	Zen-O lite™ external battery charger - US
RS-00523*	Zen-O™ accessories bag
RS-00530*	Zen-O/lite™ Dual Bay Ext Chg US
MM6012	Adult high low cannula 7ft. Pack of 25pcs*
MM6013	Adult high low cannula 25ft. Pack of 10pcs*

Each POC includes an oxygen concentrator with carry bag, battery, user manual, AC and DC power supply cords.

** Suitable for Zen-O™ and Zen-O lite™ portable oxygen concentrators.*

TECHNICAL DATA	
Size (W×D×H)	249 mm × 97 mm × 235 mm
	(9.8" × 3.8" × 9.25")
Weight	2.5 kg (5.5 lbs) without carry bag
Power requirements	AC adaptor: 100-240V AC (+/- 10%) 50-60 Hz in, 24V DC, 5.0A out
	DC adaptor: 11.5 - 16V DC in, 24V, 5.0A out
Purity	87% - 96% at all settings
Maximum oxygen discharge pressure	20.5 psi
Inspiratory trigger sensitivity	-12 mmH_2O
Humidity range	5 % to 93 % ± 2 % non-condensing
Temperature	
Operation	5°C (41°F) and 40°C (104°F)
Storage	-20°C (-4°F) and 60°C (140°F)
Setting	Adjustable in 0.5 increments from 1.0 to 5.0
Noise level	37 dB(A)*
Operating altitude	0' to 13000' (0m to 4,000) relative to sea level,
	1060 down to 575 mbar
Battery duration	Approx. 4 hours*

** At setting 2*

PORTABLE OXYGEN CONCENTRATOR

ZEN-O™

Zen-O™ portable oxygen concentrator delivers up to 2 litres of oxygen in either pulse or continuous mode. Zen-O™ is manufactured to meet the exacting standards of the European Medical Device directive and the United States Food and Drug Administration.

FEATURES / ADVANTAGES / BENEFITS

- **DUAL MODE**
  Zen-O™ offers patients the best of both worlds. Patients can alternate between continuous flow and pulse mode oxygen therapy.
- **SIMPLE AND EASY TO USE**
  Zen-O™ is designed with patients in mind, it is simple to use with intuitive button operation and LCD panel.
- **RESPONSIVE TO PATIENT NEEDS**
  Using advanced patented technology, Zen-O™ can deliver up to 2 litres per minute of oxygen in response to the patient's need. Unlike other devices that deliver a fixed amount of oxygen, Zen-O™ automatically increases the amount of oxygen delivered if a patient's breath rate rises.
- **EASILY REPLACEABLE SIEVE BED**
  Zen-O™ has been designed with sieve beds that can be replaced easily by most homecare providers without the need to return the device to a distributor.
- **VISUAL AND AUDIBLE ALARMS**
  The device is designed with various audible and visual alarm prompts such as low battery, no breath detected, service required and low oxygen purity.
- **ECO MODE**
  The Eco Mode feature allows users to switch the operation of the device from delivery a fixed pulse of oxygen at each inhalation to a fixed volume of oxygen per minute, to allow for longer battery duration.
- **AUTO-MODE**
  The Auto-mode feature activates after 60 seconds if no breath is detected, the device will automatically deliver pulses at a rate of 18 breaths per minute to the user. This feature allows users to continue receiving some oxygen if the cannula is dislodged.

Zen-O™ with bag and pull cart

Art. Nr.	Description
RS-00502-X-S	Zen-O™ portable oxygen concentrator 12 cell
RS-00502-X-D	Zen-O™ portable oxygen concentrator 2 battery package
RS-00502-C-X-S	Zen-O™ with Clarity portable oxygen 12 cell
RS-00502-C-X-D	Zen-O™ with Clarity portable oxygen 2 battery package
RS-00501	Zen-O™ battery 12 cell
RS-00509	Zen-O™ carry bag
RS-00507	Zen-O™ cart
RS-00508	Zen-O™ DC adapter
RS-00511	POC filter wrench
RS-00512*	POC cannula filter pk of 10
RS-00513	Sieve bed assembly
RS-00515*	Zen-O™ External battery charger - US
RS-00522	Zen-O™ AC power supply w/US cord
RS-00523*	Zen-O™ accessories bag
RS-00530*	Zen-O/lite™ Dual Bay Ext Chg US
RS-00533	Humidifier bag
RS-00534	Humidifier Kit (humidifier bag, humidifier bottle, angle connector, 40cm O_2 hose)
RS-00536	Zen-O™ Backpack
MM6012	Adult high low cannula 7ft. Pack of 25pcs*
MM6013	Adult high low cannula 25ft. Pack of 10pcs*

** Suitable for Zen-O™ and Zen-O lite™ portable oxygen concentrators.*

Zen-O™ can hold up to two 12 cell batteries

TECHNICAL DATA	
Size (W×D×H)	212 mm × 168 mm × 313 mm (8.3" × 6.6" ×12.3")
Weight	10,3 lbs with one 12 cell battery
Power requirements	AC adaptor: 100-240V AC (+/- 10%) 50-60 Hz in, 24V DC, 6.25A out
	DC adaptor: 11.5-16V DC in, 19V, 7.9A out
Purity	87% - 96% at all settings
Maximum oxygen discharge pressure	20.5 psi
Inspiratory trigger sensitivity	-12 mmH_2O
Humidity range	5 % to 93 % ± 2 % non-condensing
Operating attitude	0´ to 13,000´ (0m to 4,000m)
Temperature	
Operation	5°C (41°F) and 40°C (104°F)
Storage	-20°C (-4°F) and 60°C (140°F)
Setting	Adjustable in 0.5 increments from 1.0 to 6.0 in pulse mode and from 0.5 to 2.0 in continuous mode
Noise level	38 dB(A) tested to Prüfmethode 14-1 03/2007 MDS-Hi*
	42 dB(A) tested to ISO 3744*
Alarm types	Low oxygen purity
	No breath detected
	Low battery
	Service required
Battery duration	Approx. 4 hours with a single battery or 8 hours with 2 batteries at 18 BPM*

** At setting 2*

EU cords, AC and DC power supply

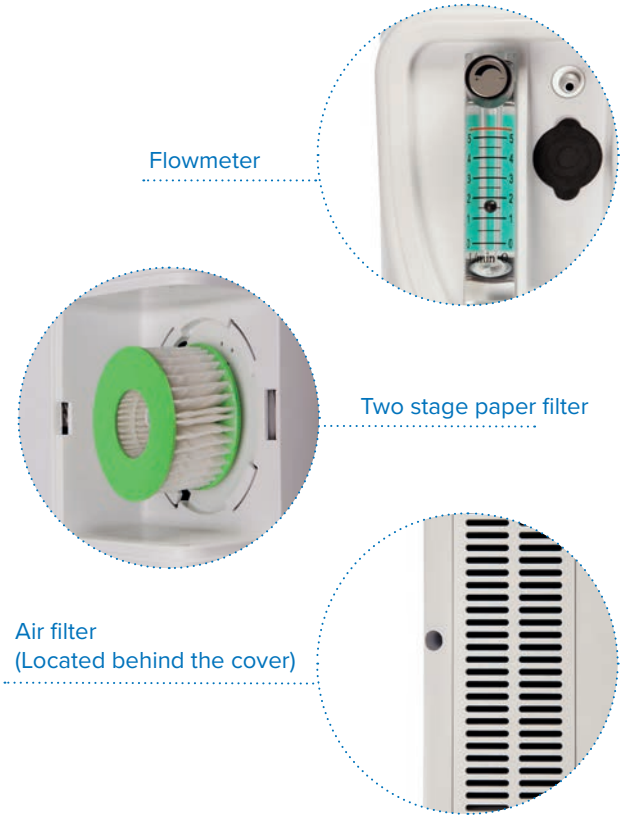
OXYGEN CONCENTRATOR

M50

The lightweight, ergonomically designed M50 oxygen concentrator makes life simpler for patients that require Long Term oxygen Therapy (LTOT).
The M50 delivers high concentration of oxygen with flow rates of up to 5 litres per minute. Featuring a compact design, the M50 is easy to move, store and maintain.

FEATURES / ADVANTAGES / BENEFITS

- Quiet operation
- Sleek, compact design with handle for easier movement
- Adjustable flow rate up to 5 litres per minute
- Fire safe oxygen outlet port for added security
- Low oxygen purity alarm for peace of mind
- Compatible with various bubble humidifiers



Art. Nr.	Description
304051021	M50 Oxygen Concentrator with US plug
14090417	Humidifier (supplied as box of 50pcs)
501150007	M50 Sponge filter
501010261	2 Stage Paper filter suitable for M50, OC-E80 and OC-E100
501010182	M50 air intake vent cover
501010183	M50 paper filter cabinet cover
501010191	M50 paper filter housing

TECHNICAL DATA	
Delivery rate (lpm)	1-5
Flow Mode	Continuous
Oxygen Concentration	90%(+/- 3%)
Weight	14.2kg (31lbs)
Dimensions (HxWxD)	23.6x15.35x9 inch
Outlet pressure (MPa)	7.25 + 0.72 psi
Average Power Consumption	310W/120V/60Hz
Sound level	<45dB
Operating environment	50-104 °F
Equipment Class	Class IIa
Humidity range (%)	< 80
Oxygen Purity Alarm	Low oxygen: 82%
Additional functions	Metal oxygen outlet for fireproofing
Safety: Alarms & Features	Power failure, high pressure/low pressure. Low Oxygen Concentration, temperature, current overload or line surge shutdown, thermal switch, 40psig pressure relief valve

OXYGEN CONCENTRATOR
OC-E SERIES

The OC-E80 and OC-E100 oxygen concentrators provide patients with up to 8 litres and 10 litres per minute respectively. For added peace of mind, the unique maintenance alarm activates after 4000 working hours. The sleek design provides easy handling and, as one of the quietest devices available, OC-E Series concentrators minimise disruption to patients' day-to-day life.

FEATURES / ADVANTAGES / BENEFITS

- Sleek design for easy use
- Real time oxygen concentration display
- Large colour LCD screen
- Quiet operation
- Maintenance alarm after 4000 working hours
- Compatible with various bubble humidifiers

Art. Nr.	Description
301081004	OC-E80 Oxygen Concentrator with US plug
301101013	OC-E100 Oxygen Concentrator 10LPM with US plug
14090417	Humidifier (supplied as box of 50pcs)
501010010	OC-E80 and OC-E100 Sponge filter
501010261	2 Stage Paper filter suitable for M50, OC-E80 and OC-E100
501010058	OC-E80 and OC-E100 air intake vent cover

TECHNICAL DATA	OC-E80	OC-E100
Delivery rate (lpm)	1-8	1-10
Flow Mode	Continuous	Continuous
Oxygen Concentration	90%(+/- 3%)	90%(+/- 3%)
Weight	25kg (55lb)	25kg (55lb)
Dimensions (HxWxD)	15x13.7x27 inch	15x13.7x27 inch
Outlet pressure (MPa)	7.25 psi	7.25 psi
Average Power Consumption	380W/120V/60Hz	730W/120V/60Hz
Sound level	< 50 dBA	< 55 dBA
Operating environment	50-104 °F	50-104 °F
Equipment Class	Class IIa	Class IIa
Humidity range (%)	< 80	< 80
Safety: **Alarms & Features**	Power failure, high pressure/low pressure. Low Oxygen Concentration, temperature, current overload or line surge shutdown, thermal switch, 40psig pressure relief valve	

VALVES

Healthcare

MEDICAL CYLINDER VALVES

GCE offers a wide range of cylinder valves for all medical gases. They are produced, tested and packed in clean rooms. Strict manufacturing rules and procedures are applied for the manufacture of GCE medical cylinder valves. GCE valves use top quality materials and tools to guarantee reliability and safety.

FEATURES / ADVANTAGES / BENEFITS

- Available in all North American standard inlet and outlet connections
- Handwheels available in different colors and materials
- Handwheel caps can be private labeled with your logo
- Optional Residual Pressure Device (RPD) available for most valves
- Variants with Burst Disc Safety Device or Dip Tube

For valves with a Residual Pressure Device (RPD) GCE offers filling adaptors that guarantee compatibility with GCE RPV cassette design. Our valves are CE marked.

TECHNICAL DATA	
Gas Services	O_2, Air, CO_2, N_2O, He and others
Inlet pressure	Up to 4400 psi
RPV closing	≤ 29 psi
Inlet connection	Tapered or parallel threads
	(17E, 25E, M18x1,5 or per customer specification)
Outlet connection	Compliant to CGA V-1
Materials	Nickel and Chrome plated forged brass
Operating temperature	-50 °F to +149°F
Storage and transport temperature	-50°F to +155°F

STANDARD CYLINDER VALVES (IN-LINE):

- Inlet pressure: up to 4400 psi
- Inlet connection: 17E, 25E, 3/4“NGT, 0.750UNF, 1.125UNF

OPTIONS:

- Residual Pressure Device (RPD)
- Burst Disc Safety Device
- Dip tube
- Handwheel in high impact ABS or aluminium
- Handwheel with space for RF chip
- Customer logo on the handwheel cap

STANDARD CYLINDER VALVES (OFF-LINE):

- Inlet pressure: up to 4400 psi
- Inlet connection: 17E, 25E

PIN INDEX VALVES:

- Inlet pressure: up to 3000 psi
- Inlet connection: 17E, 25E, M18x1.5, 0.750UNF

OPTIONS:

- Residual Pressure Device (RPD)
- Burst Disc Safety Device

MEDICAL COMBINATION VALVE

MEDIVITAL®

MediVital® is a flow gauge pressure regulator integrated with a cylinder valve for use on medical gas cylinders.

FEATURES / ADVANTAGES / BENEFITS

15 YEAR SERVICE LIFE

> 15 year service life ensured by extended endurance and cycle testing
> Patented slow opening valve
> Hi-Shock resistant Glow in the Dark gauge
> Patient safety ensured with flow selector designed for optimal gas flow
> Guard design provides maximum valve protection

USER FRIENDLY

> Suitable for use in Homecare, Emergency and Hospital applications
> Easy to read Flow Selector and Gauge
> Shut off valve with clear open/closed status color coded markings
> Ergonomic guard design allows easy handling of the cylinder package by all users
> Compact and lightweight design less than 2.5 lbs.
> Easy to clean guard material

HIGHEST SAFETY

> Testing in accordance with the following standards, EN ISO 10524-3, ASTM G175, EN ISO 10297
> CE marked in accordance with the Medical directive 93/42/EEC and TPED 2010/35 EU
> Phthalate and halogenated polymer free components meeting regulatory standards
> MRI compatible up to Tesla 3
> For use with Medical Oxygen, Air and O_2/N_2O up to 4400 psi working pressure

TECHNICAL DATA	
Gas	O_2, Air, O_2/N_2O
Inlet pressure	Up to 4400 psi
Outlet pressure	50 to 80 psi - acc. to EN ISO 10524-3 (or per customer specification)
RPV closing	≤ 44 psi
PRV opening and re-closing	> 80 psi
Flow ranges	0-6, 0-15, 0-25 LPM
Materials	Metallic parts (gas wetted): brass
	Elastomers: EPDM, silicon, PUR
	Plastics: PA66, PEEK
	Springs (gas wetted): CuBe2, CuSn6
Dimensions (hxwxd)	6 1/32" x 4 13/32" x 4 41/64"
Weight*	2.5 lbs.
Inlet stem	Tapered or parallel threads (17E, 25E, M18x1,5 or per customer specification)
Filling port	ISO 5145, NEVOC or per customer specification

** Standard Combivalve (flow control unit 0-15 LPM, flow outlet, DIN quick coupling pressure outlet) with guard.*
All technical data is for reference only and subject to modifications by the manufacturer.

MEDICAL COMBINATION VALVE

MEDIVITOP®

MediVitop® is a pressure regulator integrated with a cylinder valve for use on medical gas cylinders.

FEATURES / ADVANTAGES / BENEFITS

15 YEARS SERVICE LIFE

> 15 year service life ensured by extended endurance and cycle testing
> Patented design of shut off valve integrated with flow control knob
> Hi-Shock resistant Glow in the Dark gauge
> Patient safety ensure with pressure selector designed for optimal gas flow
> Guard design provides maximum protection for the valve

USER FRIENDLY

> Suitable for use in Homecare, Emergency and Hospital applications
> Easy to read Flow Selector and Gauge
> Shut off valve with clear open/closed status color coded markings
> Ergonomic guard design allows easy handling of the cylinder package by all users
> Compact and lightweight design less than 3 lbs
> Easy to clean guard material

HIGHEST SAFETY

> Testing in accordance with the following standards, EN ISO 10524-3, ASTM G175, EN ISO 10297
> In accordance with MDD 93/42/EEC and TPED 2010/35/EU
> Phthalate and halogenated polymer free components
> MRI compatible up to Tesla 3
> For use with medical Oxygen, Air and O_2/N_2O up to 4400 psi working pressure

ONE KNOB
SOV ingegrated with flow selectors

TECHNICAL DATA	
Gas	O_2, Air, O_2/N_2O
Inlet pressure	Up to 4400 psi
Outlet pressure	50 to 80 psi - acc. to EN ISO 10524-3 (or per customer specification)
RPV closing	< 44 psi
PRV opening and re-closing	> 80 psi
Flow ranges	0-15 LPM
Materials	Metallic parts (gas wetted): brass
	Elastomers: EPDM, silicon, PUR
	Plastics: PA66, PEEK
	Springs (gas wetted): CuBe2, CuSn6
Dimensions (hxwxd)	6 57/64" x 5 35/64" x 4 27/32"
Weight*	2.98 lbs
Inlet stem	Tapered or parallel threads (17E, 25E, M18x1,5 or per customer specification)
Filling port	ISO 5145 or per customer specification

** Standard Combivalve (flow control unit 0-15 LPM, flow outlet, DIN quick coupling pressure outlet) with guard.*
All technical data is for reference only and subject to modifications by the manufacturer.

GENERAL BUSINESS TERMS AND CONDITIONS

PREAMBLE

1. These General Conditions shall apply when the parties agree in writing or otherwise thereto. Deviations from the Conditions shall not apply unless agreed in writing.
When used in these conditions the term "written" or "in writing" refers to a document signed by both parties or a letter, fax, electronic mail or other means agreed by the parties.

PRODUCT INFORMATION

2. Data in product information and price lists are binding only to the extent that they are expressly referred to in the contract.

TECHNICAL DOCUMENTS AND TECHNICAL INFORMATION

3. All drawings and other technical documents regarding the goods or their manufacture submitted by one party to the other, prior or subsequent to the formation of the contract, shall remain the property of the submitting party. Drawings, technical documents or other technical information received by one party shall not, without the consent of the other party, be used for any other purpose than that for which they were submitted. They may not without the consent of the other party be copied, reproduced, transmitted or otherwise communicated to a third party.

4. The Seller shall, not later than by delivery of the goods, free of charge provide the Buyer with one copy, or the larger number of copies that may have been agreed, of drawings and other technical documents, which are sufficiently detailed to permit the Buyer to carry out installation, commissioning, operation and maintenance (including running repairs) of all parts of the goods.
The Seller shall not, however, be obliged to supply manufacturing drawings of the goods or spare parts.

DELIVERY TEST

5. Where a delivery test has been agreed, it shall, unless otherwise agreed, be carried out where the goods are manufactured.
If technical requirements for the test have not been agreed, the test shall be carried out in accordance with general practice in the industry concerned in the country where the goods are manufactured.

6. The Seller shall notify the Buyer in writing of the delivery test in sufficient time to permit the Buyer to be present at the test.
If the Buyer has received such notice, the test may be carried out even if the Buyer is not represented at the test.
The Seller shall record the test. The test report shall be sent to the Buyer. The report shall, unless otherwise shown by the Buyer, be considered to correctly describe the execution of the test and its results.

7. If at the delivery test the goods are found not to be in accordance with the contract, the Seller shall as soon as possible ensure that the goods comply with the contract. If so required by the Buyer a new test shall thereafter be carried out. The Buyer may not, however, require a new test if the defect was insignificant.

8. If no other division of the costs has been agreed, the Seller shall bear all costs for delivery tests carried out where the goods are manufactured. The Buyer shall, however, at such delivery tests bear all costs for his representatives, including costs for travel and subsistence.

DELIVERY

9. Where a trade term has been agreed, it shall be interpreted in accordance with the INCOTERMS in force at the formation of the contract. If no trade term is specifically agreed, the delivery shall be Ex Works.

TIME FOR DELIVERY. DELAY

10. If, instead of a fixed date for delivery, the parties have agreed on a period of time within which delivery shall take place, such period shall start to run at the formation of the contract.

11. If the Seller finds that he will not be able to deliver the goods at the agreed time or if delay on his part seems likely, he shall without undue delay notify the Buyer thereof in writing, stating the reason for the delay and if possible the time when delivery can be expected. If the Seller fails to give such notice, he shall, regardless of the provisions of Clauses 13 and 14, reimburse the Buyer for any additional expenses, which the latter incurs and which he would have avoided, had he received notice in time.

12. If delay in delivery is caused by a circumstance which under Clause 36 constitutes ground for relief or by an act or omission on the part of the Buyer, including suspension by the Seller under Clause 18, the time for delivery shall be extended by a period, which is reasonable having regard to the circumstances in the case. The time for delivery shall be extended even if the reason for delay occurs after the originally agreed time for delivery.

13. If the Seller fails to deliver the goods on time, the Buyer is entitled to liquidated damages from the date on which delivery should have taken place. The liquidated damages shall be payable at a rate of 0.5 per cent of the agreed price for each complete week of delay. If the delay concerns only a part of the goods, the liquidated damages shall be calculated on the part of the price which is properly attributable to the part of the goods which cannot be taken in use due to the delay.
The liquidated damages shall not exceed 7.5 per cent of that part of the price on which it is calculated. The liquidated damages become due at the Buyer's written demand but not before all of the goods have been delivered or the contract is terminated under Clause 14.
The Buyer loses his right to liquidated damages if he has not lodged a written claim for such damages within six months after the time when delivery should have taken place.

14. If the Buyer is entitled to maximum liquidated damages under Clause 13, and the goods are still not delivered, the Buyer may in writing demand delivery within a final reasonable period which shall not be less than one week.
If the Seller fails to deliver within such final period and this is not due to any circumstance for which the Buyer is responsible, the Buyer may, by written notice to the Seller, terminate the contract in respect of that part of the goods which cannot be taken in use due to the delay.
In case of such termination the Buyer shall also be entitled to compensation for the loss he suffers because of the Seller's delay to the extent that the loss exceeds the maximum of liquidated damages which the Buyer may claim under Clause 13. This compensation shall not exceed 7.5 per cent of that part of the price which is properly attributable to the part of the goods in respect of which the contract is terminated.
The Buyer shall also have the right to terminate the contract by written notice to the Seller if it is clear that there will be a delay, which under Clause 13 would entitle the Buyer to maximum liquidated damages. In case of termination on this ground the Buyer shall be entitled to both maximum liquidated damages and compensation under the third paragraph of this Clause.
Except for liquidated damages under Clause 13 and termination of the contract with limited compensation under this Clause 14, all other claims in respect of the Seller's delay shall be excluded.
This limitation of the Seller's liability shall not apply, however, where the Seller has been guilty of gross negligence.

15. If the Buyer finds that he will be unable to accept delivery of the goods on the agreed date, or if delay on his part seems likely, he shall without undue delay notify the Seller thereof in writing stating the reason for the delay and, if possible, the time when he will be able to accept delivery.
If the Buyer fails to accept delivery on the agreed date, he shall nevertheless make any payment which is dependent on delivery as if the goods in question had been delivered. The Seller shall arrange storage of the goods at the Buyer's risk and expense. If the Buyer so requires, the Seller shall insure the goods at the Buyer's expense.

16. Unless the Buyer's failure to accept delivery as referred to in Clause 15 is due to any such circumstance as described in Clause 36, the Seller may by written notice require the Buyer to accept delivery within a reasonable period.
If, for any reason for which the Seller is not responsible, the Buyer fails to accept delivery within such period, the Seller may, by written notice to the Buyer, terminate the contract in respect of that part of the goods which is ready for delivery but has not been delivered due to the Buyer's default. The Seller shall then be entitled to compensation for the loss he has suffered by reason of the Buyer's default. The compensation shall not exceed that part of the price which is properly attributable to the part of the goods in respect of which the contract is terminated.

PAYMENT

17. Unless otherwise agreed, the agreed purchase price, together with value added tax, if any, shall be invoiced with one third at the formation of the contract, one third when the Seller gives written notice that the bulk of the goods are ready for delivery. Final payment shall be invoiced at delivery of the goods. The invoiced amount becomes due 30 days after the date of the invoice.

18. If the Buyer fails to pay, the Seller shall be entitled to interest from the due date at the rate of interest determined by the law on late payments in the Seller's country.
If the Buyer fails to pay by the due date, the Seller shall also, after having notified the Buyer in writing thereof, suspend performance of his contractual obligations until payment is made.

19. If the Buyer has failed to pay the amount due within three months after the due date, the Seller may terminate the contract by written notice to the Buyer and, in addition to interest on late payment, claim compensation for the loss he has suffered. The compensation shall not exceed the agreed purchase price.

RETENTION OF TITLE

20. The goods shall remain the property of the Seller until paid for in full, to the extent that such retention of title is valid.

LIABILITY FOR DEFECTS

21. The Seller shall, in accordance with the provisions of Clauses 23–33 below, remedy any defect in the goods resulting from faulty design, materials or workmanship.
The Seller is not liable for defects arising out of material provided by the Buyer or a design stipulated or specified by him.

22. The Seller's liability does not cover defects caused by circumstances, which arise after the risk has passed to the Buyer.
The liability does not, for example, cover defects due to conditions of operation deviating from those anticipated in the contract or to improper use of the goods. Nor does it cover defects due to faulty maintenance or incorrect installation from the Buyer's side, alterations undertaken without the Seller's written consent or faulty repairs by the Buyer. Finally the liability does not cover normal wear and tear or deterioration.

23. The Seller's liability is limited to defects which appear within a period of one year from the date of delivery of the goods. If the goods are used more intensely than agreed, this period shall be reduced proportionately.

24. For parts, which have been repaired or replaced under Clause 21, the Seller shall have the same liability for defects as for the original goods for a period of one year. For other parts of the goods the liability period referred to in Clause 23 shall be extended only by the period during which the goods could not be used due to a defect for which the Seller is liable.

25. The Buyer shall notify the Seller in writing of a defect without undue delay after the defect has appeared and in no case later than two weeks after the expiry of the liability period defined in Clause 23 as supplemented by Clause 24. The notice shall contain a description of how the defect manifests itself. If the Buyer fails to notify the Seller in writing within the above time limits, he loses his right to make any claim in respect of the defect. If there is reason to believe that the defect may cause damage, notice shall be given forthwith. If notice is not given forthwith, the Buyer loses the right to make any claim based on damage which occurs and which could have been avoided if such notice had been given.

26. After receipt of a written notice under Clause 25, the Seller shall remedy the defect without undue delay. Within this limit the time for remedial work shall be chosen in order not to interfere unnecessarily with the Buyer's activities.
The Seller shall bear the costs as specified in Clauses 21–32.
Remedial work shall be carried out at the Buyer's premises unless the Seller finds it appropriate to have the defective part or the goods sent to him for repair or replacement at his own premises.
The Seller shall carry out dismantling and re-installation of the part if this requires special knowledge. If such special knowledge is not required, the Seller has fulfilled his obligations in respect of the defect when he delivers a duly repaired or replaced part to the Buyer.

27. If the Buyer gives such notice as referred to in Clause 25, and no defect is found for which the Seller is liable, the Seller shall be entitled to compensation for the work and costs which he has incurred as a result of the notice.

28. If remedy of the defect requires intervention in other equipment than the goods, the Buyer shall be responsible for any work or costs caused thereby.

29. All transports in connection with repair or replacement shall be at the Seller's risk and expense.The Buyer shall follow the Seller's instructions regarding how the transport shall be carried out.

30. The Buyer shall bear the increase in costs for remedying a defect which the Seller incurs when the goods are located elsewhere than at the destination stated in the contract or – if no destination has been stated – the place of delivery.

31. Defective parts, which have been replaced under Clause 21, shall be placed at the Seller's disposal and shall become his property.

32. If the Seller fails to fulfil his obligations under Clause 26 within a reasonable time, the Buyer may by written notice require him to do so within a final time. If the Seller fails to fulfil his obligations within that time limit, the Buyer may at his option:
a) have the necessary remedial work carried out and/or have new parts manufactured at the Seller's risk and expense, provided that the Buyer proceeds in a reasonable manner, or
b) demand a reduction of the agreed purchase price not exceeding 15 per cent thereof.
If the defect is substantial, the Buyer may instead terminate the contract by written notice to the Seller. The Buyer shall also be entitled to such termination where the defect remains substantial after measures referred to in a). In case of termination, the Buyer shall be entitled to compensation for the loss he has suffered. The compensation shall not, however, exceed 15 per cent of the agreed purchase price.

33. Regardless of the provisions of Clauses 21–32, the Seller shall have no liability for defects in any part of the goods for more than two years from the start of the liability period referred to in Clause 23.

34. The Seller shall have no liability for defects save as stipulated in Clauses 21–33. This applies to any loss the defect may cause, such as loss of production, loss of profit and other consequential economic loss. This limitation of the Seller's liability shall not apply, however, if he has been guilty of gross negligence.

LIABILITY FOR DAMAGE TO PROPERTY CAUSED BY THE GOODS

35. The Buyer shall indemnify and hold the Seller harmless to the extent that the Seller incurs liability towards any third party in respect of loss or damage for which the Seller is not liable towards the Buyer according to the second and third paragraphs of this Clause.
The Seller shall have no liability for damage caused by the goods:
a) to any (movable or immovable) property, or consequential loss due to such damage, occurring while the goods are in the Buyer's possession, or
b) to products manufactured by the Buyer or to products of which the Buyer's products form a part.
The above limitations of the Seller's liability shall not apply if he has been guilty of gross negligence.
If a third party lodges a claim for compensation against Seller or Buyer for loss or damage referred to in this Clause, the other party to the contract shall forthwith be notified thereof in writing.
The Seller and the Buyer shall be mutually obliged to let themselves be summoned to the court or arbitral tribunal which examines claims against either of them based on damage or loss alleged to have been caused by the goods.
The liability as between the Seller and the Buyer shall, however, always be settled by arbitration in accordance with Clause 39.

GROUNDS FOR RELIEF (FORCE MAJEURE)

36. The following circumstances shall constitute grounds for relief if they impede the performance of the contract or makes performance unreasonably onerous: industrial disputes and any other circumstance beyond the control of the parties, such as fire, war, mobilization or military call up of a comparable scope, requisition, seizure, trade and currency restrictions, insurrection and civil commotion, shortage of transport, general shortage of materials, restrictions in the supply of power and defects or delays in deliveries by sub-contractors caused by any such circumstance as referred to in this Clause.
The above described circumstances shall constitute grounds for relief only if their effect on the performance of the contract could not be foreseen at the time of formation of the contract.

37. The party wishing to claim relief under Clause 36 shall without delay notify the other party in writing on the intervention and on the cessation of such circumstance.
If grounds for relief prevent the Buyer from fulfilling his obligations, he shall reimburse the expenses incurred by the seller in securing and protecting the goods.

38. Notwithstanding other provisions of these General Conditions, either party shall be entitled to terminate the contract by notice in writing to the other party, if performance of the contract is delayed more than six months by reason of any grounds for relief as described in Clause 36.

DISPUTES. APPLICABLE LAW

39. Disputes arising out of or in connection with the contract shall not be brought before the court, but shall be finally settled by arbitration in accordance with the law on arbitration applicable in the Seller's country.

40. All disputes arising out of the contract shall be judged according to the law of the Seller's country.

NOTES

NOTES

REGIONAL OFFICES

EUROPE

CZECH REPUBLIC
FRANCE
GERMANY
HUNGARY
ITALY
POLAND
PORTUGAL
ROMANIA
SPAIN
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Product information and support line: 1-800-ESAB-123 (1-800-372-2123)
Customer Care: 1-800-426-1888
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