

**erc-O<sub>2</sub>-tech<sup>®</sup>**

**innovative gas systems**

**Markwerbener Str. 24  
06667 Weissenfels  
Germany**

**Phone: 0049 (0) 3443/2901-0**

**Fax: 0049 (0) 3443/2901-12**

**Mail: [compart-weissenfels@t-online.de](mailto:compart-weissenfels@t-online.de)**

**[www.sauerstoff93.de](http://www.sauerstoff93.de)**

**[www.oxygen93.com](http://www.oxygen93.com)**

## Oxygen concentrator

### CE declaration of conformity



Meets the requirements of the **Medical Devices Directive No. 93/42/EEC**. The following standards have been applied for verification in accordance with this Directive :

- **EN ISO 8359: 1996**
- **EN 60601-1:1990 + A1:1993 + A2:1995;**
- **EN 60601-1:1990/A13:1996**
- **EN 60601-1-2: 2001**

Our products meet the requirements of international standards for

**„oxygen concentrators for use with medical gas pipeline systems“**

- **ISO 10083: 1992(E)**

Model	Capacity (LPM)	Pressure (bar)	Dimensions HxWxD (cm)	Weight (kg)	Power (V-Hz)
MO <sub>2</sub> -10 + Air + suction set (mobile)	10 O <sub>2</sub> + 40 Air	5	95x65x74	100	230 V-50 Hz +/-10%
MO <sub>2</sub> -20 (mobile)	20	0-5 (adjustable)	95x65x74	100	230 V-50 Hz +/-10%
MSO <sub>2</sub> -20 (stationary)	20	5	66x65x74	85	230 V-50 Hz +/-10%
MSO <sub>2</sub> -40 (stationary)	40	5	66x130x74	170	230 V-50 Hz +/-10%
MSO <sub>2</sub> -60 (stationary)	60	5	66x200x74	255	230 V-50 Hz +/-10%
MSO <sub>2</sub> -to (stationary)	to 2000	5	depends on capacity	depends on capacity	230 V-50 Hz +/-10%
Technical information is subject to change without notice!					

# Oxygen concentrator MO<sub>2</sub>-10 + Air + suction set

## Fields of use

- Intensive Care Unit
- Emergency Room
- Passenger Ship
- Field-hospital

## Product details

### Mobile oxygen concentrator MO<sub>2</sub>-10 + Air + suction set

- basic housing, papyrus white RAL 9018, with sound and vibration insulation, mobile with four lock and swivelling castors
- front control panel with main switch for oxygen and air
- 2 operation time counter
- temperature alarm with automatic switch-off (protection against overheating)
- oxygen monitor
- 2 pressure gauges
- built-in compressed-air piston compressor (oil-free), with air intake filter (99,999%) for oxygen and built-in compressed-air piston compressor (oil-free for air)
- radial ventilator and oxygen booster
- 10 l air and 10 l oxygen tank with pressure control and automatic switch for continuous stand by regulation
- oxygen PSA module ATF<sup>®</sup> (maintenance free, for continuous operation)

### Technical data:

Oxygen concentration	10 l/min, 93% +/-3%
Oxygen pressure:	constant 5 bar
Air capacity	40 l/min
Air pressure:	konstant 5 bar
Mains voltage:	230 V 50 Hz +/-10%
Power consumption:	1560 Watt, 8 Ampere
Noise level:	60 dB(A)
Guarantee:	1 year

**Technical information is subject to change without notice!**



**Mobile Oxygen Concentrator MO<sub>2</sub>-10 + Air + suction set**

**delivery time: 10 weeks**

**Additional equipment:**

- **suction venturi**
- **suction bottle**
- **one way suction bag**
- **slide-in unit for segment suction**
- **2 additional oxygen outputs with flow-meter and humidifier**

# Oxygen concentrator MO<sub>2</sub>-20

## Fields of use

- Operating room
- Connection to anesthetic equipment

## Product details

### Mobile oxygen concentrator MO<sub>2</sub>-20

- basic housing, papyrus white RAL 9018, with sound and vibration insulation, mobile with four lock and swivelling castors
- front control panel with main switch, operation time counter, oxygen monitor
- temperature alarm with automatic switch-off (protection against overheating)
- pressure gauge with regulator and flowmeter for oxygen
- built-in compressed-air piston compressor (oil-free), with air intake filter (99,999%)
- radial ventilator and oxygen booster
- 20 l oxygen tank with pressure control and automatic switch for continuous stand by regulation
- oxygen PSA module ATF<sup>®</sup> (maintenance free, for continuous operation)

### Technical data:

Oxygen concentration	1-20 l/min, 93% +/-3%
Oxygen pressure:	0-5 bar (adjustable)
Mains voltage:	230 V 50 Hz +/-10%
Power consumption:	1560 Watt, 8 Ampere
Dimension:	HxBxT 95x65x74
Weight:	100 kg
Noise level:	60 dB(A)
Guarantee:	1 year

**Technical information is subject to change without notice!**



**Mobile Oxygen Concentrator MO<sub>2</sub>-20**

**delivery time: 10 weeks**

# Oxygen concentrator MSO<sub>2</sub>-20

## Fields of use

- Basic module
- Medical supply
- Industrial use
- Sewage plant

## Product details

### Stationary oxygen concentrator MO<sub>2</sub>-20

- basic module on self-portable mounting frame with closed housing
- front control panel with main switch, operation time counter, oxygen monitor, pressure gauge and product flowmeter
- built-in compressed-air piston compressor (oil-free), with air intake filter (99,999%)
- radial ventilator and oxygen booster
- temperature alarm monitor with automatic switch-off (protection against overheating)
- oxygen PSA module ATF<sup>®</sup> (maintenance free, for continuous operation)

### Technical Data:

Oxygen concentration:	1-20 l/min, 93% +/-3%
Oxygen pressure:	constant 5 bar
Overall output O <sub>2</sub> :	1,2 m <sup>3</sup> per hour
Mains voltage:	230 V 50 Hz +/-10%
Power consumption:	1320 Watt
Dimension:	HxWxD 66x65x74
Weight:	85 kg
Noise level:	60 dB(A)
Guarantee:	1 year

**Technical information is subject to change without notice!**

**In accordance to  
93/42/EEC**



**Stationary Oxygen Concentrator MSO<sub>2</sub>-20**

**delivery time: 10 weeks**

# Oxygen concentrator MSO<sub>2</sub>-40

## Fields of use

- 2 x basic module
- Medical supply
- Industrial use
- Sewage plant

## Product details

### Stationary oxygen concentrator MO<sub>2</sub>-40

- 2 basic modules on self-portable mounting frame with closed housing , singly removable for service
- front control panel with main switch, operation time counter, oxygen monitor, pressure gauge and product flowmeter
- built-in compressed-air piston compressor (oil-free), with air intake filter (99,999%)
- radial ventilator and oxygen booster
- temperature alarm monitor with automatic switch-off (protection against overheating)
- oxygen PSA module ATF<sup>®</sup> (maintenance free, for continuous operation)

### Technical Data:

Oxygen concentration:	1-40 l/min, 93% +/-3%
Oxygen pressure:	constant 5 bar
Overall output O <sub>2</sub> :	2,4 m <sup>3</sup> per hour
Mains voltage:	230 V 50 Hz +/-10%
Power consumption:	2640 Watt
Dimension:	HxWxD 66x130x74
Weight:	170 kg
Noise level:	60 dB(A)
Guarantee:	1 year

**Technical information is subject to change without notice!**

**In accordance to  
93/42/EEC**



**Stationary Oxygen Concentrator MSO<sub>2</sub>-40**

**delivery time: 10 weeks**

# Oxygen concentrator MSO<sub>2</sub>-60

## Fields of use

- 3 x basic module
- Medical supply
- Industrial use
- Sewage plant

## Product details

### Stationary oxygen concentrator MO<sub>2</sub>-60

- 3 basic modules on self-portable mounting frame with closed housing , singly removable for service
- front control panel with main switch, operation time counter, oxygen monitor, pressure gauge and product flowmeter
- built-in compressed-air piston compressor (oil-free), with air intake filter (99,999%)
- radial ventilator and oxygen booster
- temperature alarm monitor with automatic switch-off (protection against overheating)
- oxygen PSA module ATF<sup>®</sup> (maintenance free, for continuous operation)

### Technical Data:

Oxygen concentration:	1-60 l/min, 93% +/-3%
Oxygen pressure:	constant 5 bar
Overall output O <sub>2</sub> :	3,6 m <sup>3</sup> per hour
Mains voltage:	230 V 50 Hz +/-10%
Power consumption:	3960 Watt
Dimension:	HxWxD 66x200x74
Weight:	255 kg
Noise level:	60 dB(A)
Guarantee:	1 year

**Technical information is subject to  
change without notice!**

**In accordance to  
93/42/EEC**



**Stationary Oxygen Concentrator MSO<sub>2</sub>-60**

**delivery time: 10 weeks**

# Oxygen concentrator MSO<sub>2</sub>-140

## Fields of use

- 7 x basic module with 250 l storage tank, reserve cylinders and electrical control unit at one module
- Medical supply

## Product details

### Stationary oxygen concentrator MO<sub>2</sub>-140

- 7 basic modules on self-portable mounting frame with closed housing , singly removable for service
- front control panel with main switch, operation time counter, oxygen monitor, pressure gauge and product flowmeter
- built-in compressed-air piston compressor (oil-free), with air intake filter (99,999%)
- radial ventilator and oxygen booster
- temperature alarm monitor with automatic switch-off (protection against overheating)
- oxygen PSA module ATF<sup>®</sup> (maintenance free, for continuous operation)
- storage tank with a capacity of 250 l
- rack system in light aluminium (available in aluminium as well), collapsible for transport
- reserve system for 4 cylinders with automatic switch-over and electrical control and warning system

### Technical Data:

Oxygen concentration:	1-140 l/min, 93% +/-3%
Oxygen pressure:	constant 5 bar
Overall output O <sub>2</sub> :	8,3 m <sup>3</sup> per hour
Mains voltage:	230 V 50 Hz +/-10%
Power consumption:	9240 Watt
Dimension:	HxWxD 240x240x200
Weight:	1100 kg
Noise level:	60 dB(A)
Guarantee:	1 year

Technical information is subject to  
change without notice!

**In accordance to  
93/42/EEC**



**Stationary Oxygen Concentrator MSO<sub>2</sub>-140**

**delivery time: 10 weeks**

# Central Gas Supply in Module Form MSO<sub>2</sub>-240

## Fields of use

- 12 x basic module with several, additionally deliverable equipment
- Medical supply

## Product details

### Central gas supply in module form MO<sub>2</sub>-240

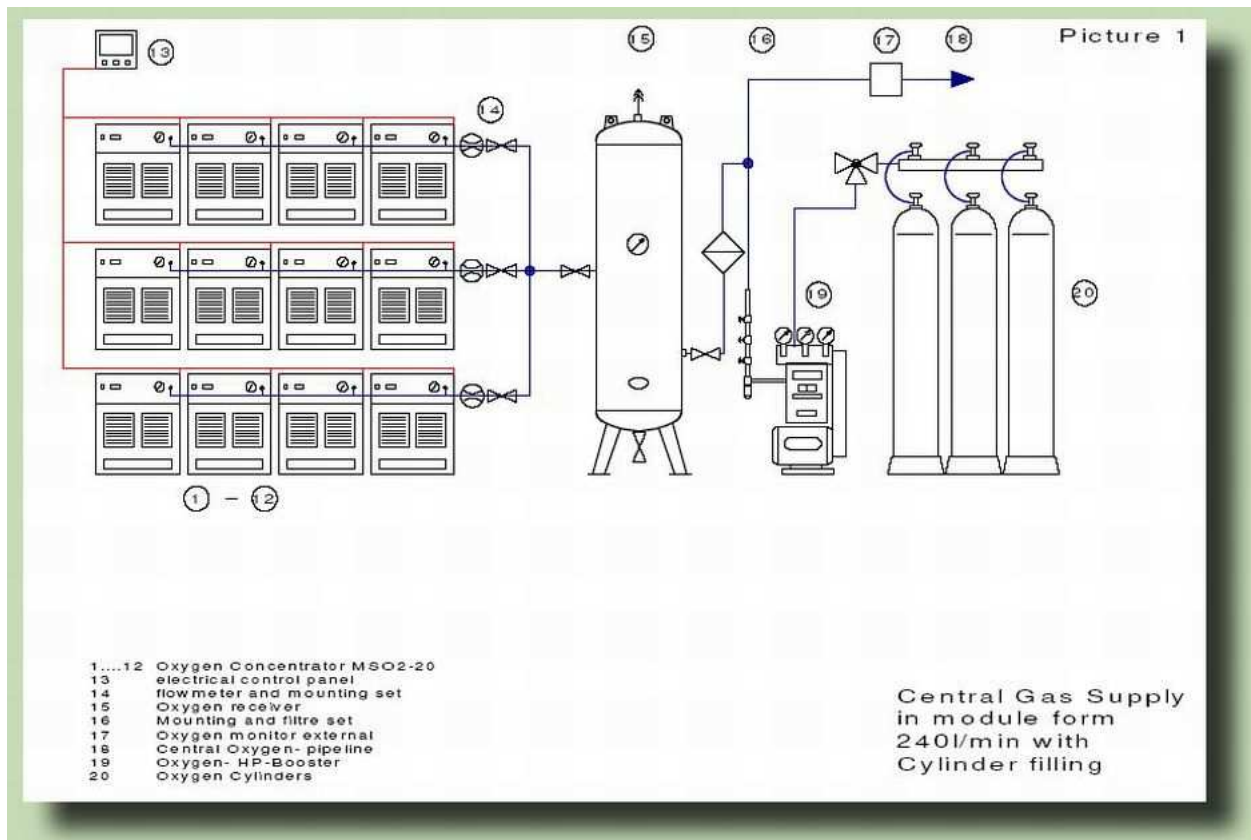
- 12 basic modules on self-portable mounting frame with closed housing , singly removable for service
- front control panel with main switch, operation time counter, oxygen monitor, pressure gauge and product flowmeter
- built-in compressed-air piston compressor (oil-free), with air intake filter (99,999%)
- radial ventilator and oxygen booster
- temperature alarm monitor with automatic switch-off (protection against overheating)
- oxygen PSA module ATF<sup>®</sup> (maintenance free, for continuous operation)

### Technical Data:

Oxygen concentration:	1-240 l/min, 93% +/-3%
Oxygen pressure:	constant 5 bar
Overall output O <sub>2</sub> :	14,4 m <sup>3</sup> per hour
Mains voltage:	230 V 50 Hz +/-10%
Power consumption:	15840 Watt
Dimension:	variable, e.g. HxWxD 220x265x74
Weight:	1020 kg
Noise level:	60 dB(A)
Guarantee:	1 year

**Technical information is subject to change without notice!**

**In accordance to  
93/42/EEC**



**Central Gas Supply in Module Form MO<sub>2</sub>-240**

**delivery time: 10 weeks**

# Ambulance Device M 10 tr

## Fields of use

- Basic module for ambulances, independent gas supply, replaces the both oxygen cylinders and requires not more space than these cylinders

## Product details

### Ambulance Device M 10 tr

- basic module on self-portable mounting frame with closed housing, removable for service
- front control panel with main switch, operation time counter, oxygen monitor, pressure gauge
- built-in compressed-air piston compressor (oil-free), with air intake filter (99,999%)
- radial ventilator and oxygen booster
- temperature alarm monitor with automatic switch-off (protection against overheating)
- oxygen PSA module ATF<sup>®</sup> (maintenance free, for continuous operation)

### Technical Data:

Oxygen concentration:	2-10 l/min, 93% +/-3%
Oxygen pressure:	4.5 bar
Overall output O <sub>2</sub> :	0.6 m <sup>3</sup> per hour
Mains voltage:	230 V 50 Hz +/-10%
Nominal rating:	4 A
Starting current:	max. 7.5 A
Power consumption:	920 Watt
Dimension:	HxWxD 84.6 x 42 x 29.8 cm
Weight:	48 kg
Noise level:	60 dB (A)
Guarantee:	1 year

**Technical information is subject to change without notice!**

**In accordance to  
93/42/EEC**



**Ambulance Device M 10 tr**

**delivery time: 10 weeks**

# M 10 tr mobile

## Fields of use

- Mobile device for use at sick-beds
- from gas tube networks independent supply of oxygen, for instance field hospitals or hospitals without oxygen supply network

## Product details

### M 10 tr mobile

- basic module on self-portable mounting frame with closed housing, removable for service
- caddy for transport equipped with swivelling castors and standard aluminum profiles
- double distributor, 2 flow meters, 2 humidifier bottles
- front control panel with main switch, operation time counter, oxygen monitor, pressure gauge
- built-in compressed-air piston compressor (oil-free), with air intake filter (99,999%)
- radial ventilator and oxygen booster
- temperature alarm monitor with automatic switch-off (protection against overheating)
- oxygen PSA module ATF<sup>®</sup> (maintenance free, for continuous operation)

### Technical Data:

Oxygen concentration:	2-10 l/min, 93% +/-3%
Oxygen pressure:	4.5 bar
Overall output O <sub>2</sub> :	0.6 m <sup>3</sup> per hour
Mains voltage:	230 V 50 Hz +/-10%
Nominal rating:	4 A
Starting current:	max. 7.5 A
Power consumption:	920 Watt
Dimension:	HxWxD 120 x 42 x 44 cm
Weight:	48 kg
Noise level:	60 dB (A)
Guarantee:	1 year

**Technical information is subject to  
change without notice!**

**In accordance to  
93/42/EEC**



**M 10 tr mobile**

**delivery time: 10 weeks**

## **Additionally deliverable components**

### **Electrical control unit**

This unit is created to control the operation time of each single oxygen concentrator. The concentrators are switched on resp. off by measuring the pressure within the storage tank.

This guarantees the operation of the concentrators in dependence on the total consumption of oxygen, which means that the amount of consumed oxygen determines the number of modules switched on therefore. At the other hand this guarantees an equal working time of each concentrator. (pic. pos. 13)

---

### **Flowmeter and mounting set for oxygen receiver**

Consists of: connecting pipes for each concentrator, flowmeters for 4 concentrators with a maximum of 100l/min and a shut off set for each strand of oxygen pipes to maintain and repair single units without the necessity to switch off the whole plant (pic. pos. 14)

---

### **Oxygen receiver**

Depending on your requirements regarding the storage of oxygen and your room conditions. The oxygen receiver is an safety storage tank of stainless steel or steel quality, with a max. work-pressure of 10 bar and safety and shut-off valves. (pic. pos. 15)

---

### **Mounting and filterset** (pic pos. 16)

---

### **Oxygen monitor (external)**

To show the oxygen concentration and pressure of the system in a external room with warning system. (pic. pos. 17)

---

## Additionally deliverable components

### Oxygen HP-Booster

To fill your own oxygen cylinders in a time while you not need oxygen in the central gas supply. (pic pos. 19) We deliver 2 different sizes:

- Model R2BL to fill 1 cylinder (40 l, 150 bar) in 4 hours

Technical Data:

Overall output O<sub>2</sub>: 1,6 m<sup>3</sup>/hour (27 l/min)

Pressure max: 152 bar

Voltage: 230 V /50 Hz ± 10% / 0,6KW

Dimension: for instance HxWxD 60x55x95 cm

Weight: 75 kg

- Model R2BH to fill 1 cylinder (40 l, 150 bar) in 2 hours

Technical Data:

Overall output O<sub>2</sub>: 3,2 m<sup>3</sup>/h (53 l/min)

Pressure max: 152 bar

Voltage: 230 V /50 Hz ±10% / 1,1KW

Dimension: z.B. HxWxD 60x55x95 cm

Weight: 75 kg

---

### Cylinder filling station

Connection and shut-off unit to fill own oxygen cylinders (pic pos. 20)

---

## Electrical Control Unit



This unit is created to control the operation time of each single oxygen concentrator. The concentrators are switched on resp. off by measuring the pressure within the storage tank. This guarantees the operation of the concentrators in dependence on the total consumption of oxygen, which means that the amount of consumed oxygen determines the number of concentrators switched on therefore. At the other hand this guarantees an equal working time of each concentrator.

## Oxygen Sensor Plug Control



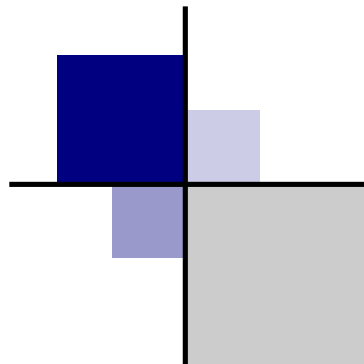
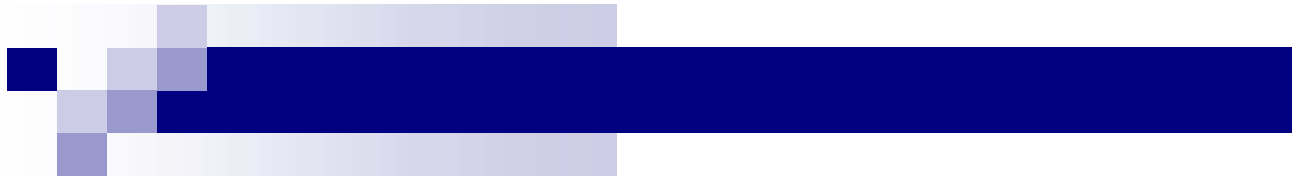
erc-O<sub>2</sub>-tech® has solved a long existing problem regarding the measuring of oxygen concentration in hospitals.

The measuring instrument developed by erc-O<sub>2</sub>-tech® has a measuring range from 0% to 100% of oxygen concentration. By pressing the button it displays the oxygen concentration within the pipe. In the other case – button is not pressed – it displays the oxygen concentration of the room air.

The measuring instrument can be delivered equipped with all customary DIN-, Afnor- and BS-plugs.

Other features:

- digital display
- CE-certified measuring unit



Compart Umwelttechnik GmbH

Markwerbener Str. 24  
06667 Weißenfels  
Germany

Phone: 0049 (0) 3443/2901-0  
Fax: 0049 (0) 3443/2901-12  
Mail: [compart-weissenfels@t-online.de](mailto:compart-weissenfels@t-online.de)  
[www.sauerstoff93.de](http://www.sauerstoff93.de)  
[www.oxygen93.com](http://www.oxygen93.com)