

# Medical Oxygen Generators

## SEP Series

## The Premium Performance

The unique SEP design provides consistent high flow rates of oxygen with minimum footprint. Together with molecular sieve protection from moisture to, substantially lower the service costs, and extend the lifetime of the molecular sieve.



### Standard Features

- ✓ Colour touch screen control
- ✓ Built in purity analyser for constant monitoring
- ✓ Data-logging via USB interface
- ✓ Modbus TCP, Ethernet connection
- ✓ Remote start/stop relay
- ✓ Stainless steel piping
- ✓ Designed for dynamic pressure loading
- ✓ Purity control - off spec purge
- ✓ Audio-visual alarm

### Optional add-ons

- ✓ Flow control valve – flow & purity adjustment
- ✓ Energy saving valve – reduces compressed air usage during turn down
- ✓ Sequential start/stop – one button operation
- ✓ SMS alarm
- ✓ Remote monitoring
- ✓ and others



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| Model | Oxygen capacity |                   |       |                   |      |                   | Dimensions<br>LxWxH<br>cm | Weight<br>kg |
|-------|-----------------|-------------------|-------|-------------------|------|-------------------|---------------------------|--------------|
|       | 90%             |                   | 93%   |                   | 95%  |                   |                           |              |
|       | kg/h            | m <sup>3</sup> /h | kg/h  | m <sup>3</sup> /h | kg/h | m <sup>3</sup> /h |                           |              |
| O20   | 13.5            | 10.2              | 12.6  | 9.5               | 11.4 | 8.6               | 125x85x205                | 750          |
| O20+  | 15.2            | 11.4              | 14.2  | 10.7              | 12.8 | 9.6               | 125x85x205                | 750          |
| O27   | 19.4            | 14.6              | 18.1  | 13.6              | 16.3 | 12.3              | 130x85x220                | 1000         |
| O27+  | 20.6            | 15.5              | 19.3  | 14.5              | 17.4 | 13.1              | 130x85x220                | 1000         |
| O35   | 24.8            | 18.6              | 23.2  | 17.4              | 20.9 | 15.7              | 135x95x220                | 1550         |
| O35+  | 27.0            | 20.3              | 25.2  | 19.0              | 22.7 | 17.1              | 135x95x220                | 1550         |
| O50   | 31.0            | 23.3              | 29.0  | 21.8              | 26.1 | 19.6              | 162x113x200               | 1800         |
| O50+  | 38.5            | 28.9              | 36.0  | 27.1              | 32.4 | 24.4              | 162x113x200               | 1800         |
| O65   | 42.7            | 32.1              | 39.9  | 30.0              | 35.9 | 27.0              | 181x113x216               | 2300         |
| O65+  | 49.6            | 37.3              | 46.4  | 34.9              | 41.8 | 31.4              | 181x113x216               | 2300         |
| O80   | 54.3            | 40.8              | 50.8  | 38.2              | 45.7 | 34.4              | 192x125x225               | 2800         |
| O80+  | 61.3            | 46.1              | 57.3  | 43.1              | 51.5 | 38.7              | 192x125x225               | 2800         |
| O100  | 69.8            | 52.5              | 65.3  | 49.1              | 58.7 | 44.1              | 205x140x250               | 3000         |
| O100+ | 76.0            | 57.1              | 71.1  | 53.4              | 63.9 | 48.0              | 205x140x250               | 3000         |
| O125  | 85.3            | 64.1              | 79.8  | 60.0              | 71.8 | 54.0              | 205x140x300               | 3300         |
| O125+ | 93.1            | 70.0              | 87.0  | 65.4              | 78.3 | 58.9              | 205x140x300               | 3300         |
| O150  | 105.5           | 79.3              | 98.6  | 74.1              | 88.7 | 66.7              | 205x140x350               | 4000         |
| O150+ | 114.0           | 85.7              | 106.5 | 80.1              | 95.9 | 72.1              | 205x140x350               | 4000         |

## Operating conditions

|                           |                               |
|---------------------------|-------------------------------|
| Ambient temperature range | 5°C to 50°C                   |
| Oxygen outlet pressure    | 4 to 8barG                    |
| Oxygen dew point          | -50°C ( -70°C)                |
| Air inlet pressure        | 7.5 to 10barG                 |
| Inlet air quality         | ISO: 8573.1:2010 class 1.4.1. |
| Pressure dew point        | 3°C                           |
| Filtration grade          | 0.01 micron                   |
| Power supply              | 110-240V / 50-60Hz            |

## Notes

Performance data is based on 7 barG inlet pressure and 20°C to 30°C ambient temperature.

Flow stated in cubic meter (m<sup>3</sup>) is with reference conditions, Temperature: 20°C, Pressure: 1.013 barA.

Conversion factor for m<sup>3</sup> with reference conditions, Temperature: 0°C, Pressure: 1.013 barA is 0.69 m<sup>3</sup>/kg.

Designs and specifications are subject to change without notice or obligation.

## Installation alternatives

- ✓ generating system including air treatment
- ✓ stand-alone installation
- ✓ skid mounted variant
- ✓ containerized version
- ✓ oxygen generating system with cylinder filling station
- ✓ partial filling station

## KEY Benefits

- ✓ Zeolite anti-crush design
- ✓ Minimized footprint
- ✓ Molecular sieve protection
- ✓ Flexibility
- ✓ Safe and cost effective solution
- ✓ Easy operation
- ✓ Reliability