

## Hospital Oxygen Generating Systems



### System Description

Oxygen Concentrator or Pressure Swing Adsorber (P.S.A.) Systems are used for on site generation of medical oxygen in hospitals and healthcare facilities throughout the world. Rimer-Alco concentrators are designed to be fully compatible with existing oxygen pipelines. Concentrators provide a primary source of oxygen with continuous real time monitoring systems.

Automatic operation ensures that fluctuating demand can be met by duplexing the system with one unit on duty and another producing oxygen to meet peak loads.

Alarms are incorporated and monitor both pipeline supply pressure and oxygen purity so that the system can be run at maximum efficiency. Demand can be supplemented or substituted with back up systems usually comprising high pressure cylinders.

### Inputs Electrical

Compressor/Vacuum Pump: 3 Phase Supply  
(Voltage should be declared at time of order)

### Outputs

Flow rates

### Purity

Oxygen Purity : 93%  $\pm$  3%

### Outputs

Servomex oxygen analyzer utilizing paramagnetic sensor technology.

### Optional Features

Cylinder filling Stations **\*6m3 @ 150 Bar**

Model	Litres / minute
OC 6	22
OC 11	40
OC 15	55
OC 20	75
OC 35	125
OC 43	160
OC 73	280
OC 90	350
OC 130	500

Model	No of Cyls. @ 1 time	Litres / minute	Hours to fill 1 Cylinder*
CF 6	1	22	4.5
CF 11	1	40	2.5
CF 15	2	55	1.81
CF 20	2	75	1.3
CF 35	2	125	0.8
CF 43	4	160	0.63
CF 73	6	280	0.36
CF 90	8	350	0.28
CF 130	10	500	0.19

**Daily**

Check compressor oil level  
 Check air receiver drains  
 Calibrate oxygen analyzer Check/replace chart recorder paper

**4000 Hours**

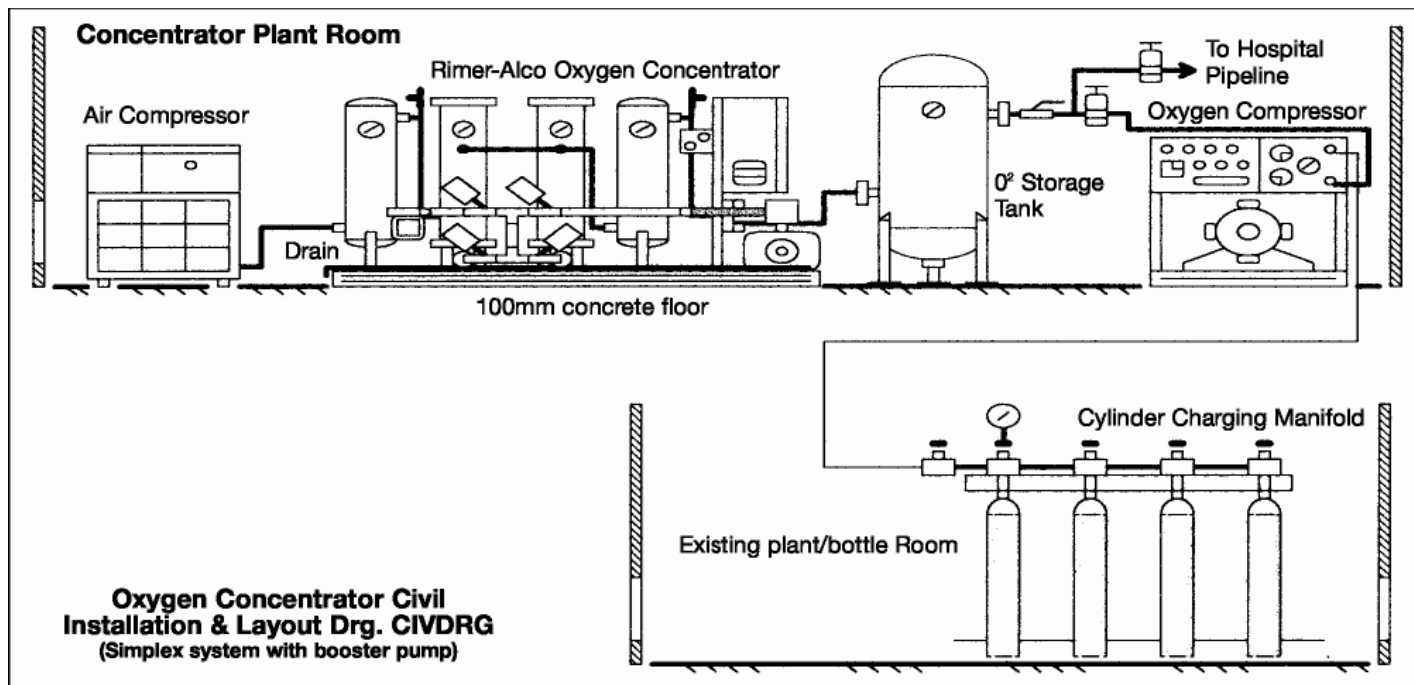
Change compressor oil and filters.  
 Change vacuum pump blades.  
 Change air filter elements.

**8000 Hours**

Inspect process valves and service as required Test for leaks  
 Annual service compressor and vacuum pump

**Applicable Regulatory Standards**

HTM 2022  
 BS 7634: 1993  
 ISO 10083: 1992  
 CSA Z305.6



Dimensions in millimetres – Weights in kilograms. Subject to change without prior notice.

Model	Compressor				Concentrator				Storage Vessel		
	L	W	H	Wt	L	W	H	Wt	L	W	H
OC 6	530	563	640	110	1900	600	1550	560	460	1625	140
OC 11	590	600	790	160	2200	660	1750	625	460	1625	140
OC 15	590	600	790	160	2200	660	2000	700	460	1625	140
OC 20	770	750	1000	270	2350	660	2000	760	510	2060	180
OC 35	770	750	1000	290	2800	820	2300	850	610	2110	195
OC 43	770	750	1000	290	2685	660	2200	1120	765	2290	340
OC 73	1575	1020	1340	790	2885	800	2600	1525	915	2290	572
OC 90	1575	1020	1340	880	3875	1200	2725	1650	915	2290	572
OC 130	1785	1130	1440	1180	4225	1200	2540	1785	1220	2875	950