

**OC-35 Oxygen Concentrator System**  
**SPECIFICATIONS**

OXYGEN CONCENTRATORS	
brand	ON <sub>2</sub> On Site Gas System
type	Vacuum Pressure Swing Adsorption (VPSA)
model	OC 35
output	125 LPM at 85 psi
purity	95% oxygen (+/-1%) @ Rated Capacity
crn #	T2148.40
voltage	3 Ph/208V/575V/60Hz (Vacuum Pump), other voltage/frequencies available 1 Phase - 120 Volt (Concentrator Controls).
dimensions	W 30" x H 83.5" x L 84"
weight	2480 lbs.
regulatory standards	<ul style="list-style-type: none"> <li>o CAN/CSA-Z10083-08</li> <li>o ISO 10083:2006-07-15</li> </ul>
FEED AIR REQUIREMENTS	
volume	60 SCFM @ 20°C @ 1 atmosphere
pressure	125 psig (optimum) - 115 psig (minimum)
temperature	20°C. above Ambient (maximum)
particulate	As per C.S.A. Z305.6 - Section 8.2 & 11.1
clearance required	Front = 36", Sides = 24", Rear = 12"

VACUUM PUMP	
capacity	29.3" Hg
electrical	5 HP (3 PH Standard/208V/575V/60Hz) Starter/Overload Included (Controls integrated to Oxygen Concentrator's PLC).
sound level	70 dBA @ 1 metre
heat rejection	12720 Btu/hr
dimensions	Built into Oxygen Concentrator and therefore included in overall dimensions of Oxygen Concentrator.

SYSTEM CONTROLS – MONITORS – ALARMS	
operating system controls	<ul style="list-style-type: none"> <li>o PLC (Programmable Logic Controller)</li> </ul>
operating valves	<ul style="list-style-type: none"> <li>o Pilot Air Operation</li> <li>o Solenoid Valve Activated</li> </ul>
pressure gauges	<ul style="list-style-type: none"> <li>o T1 &amp; T2 Pressure/Vacuum</li> <li>o O<sub>2</sub> Mix Tank Pressure</li> <li>o Vacuum</li> <li>o O<sub>2</sub> Storage Tank Pressure</li> <li>o Air Supply Pressure</li> </ul>
sensors	<ul style="list-style-type: none"> <li>o Vacuum Low</li> <li>o Zeolite Towers Pressure Low</li> <li>o O<sub>2</sub> Storage Pressure (Start/Stop)</li> </ul>
controls	<ul style="list-style-type: none"> <li>o Power On/Off</li> <li>o Automatic Start/Stop</li> <li>o Hours Run</li> <li>o Manual Purge Mode</li> <li>o Analyzers Calibration Mode</li> <li>o In Start Cycle</li> <li>o System On-Line</li> </ul>
system indicators	<ul style="list-style-type: none"> <li>o In Manual Purge</li> <li>o System Calibrating</li> </ul>
system alarms	<ul style="list-style-type: none"> <li>o Low Oxygen %</li> <li>o Low Vacuum</li> <li>o Low Tower Pressure</li> <li>o Alarm Reset Switch</li> </ul>

OXYGEN ANALYZERS	
quantity	2 (per Oxygen Concentrator)
controls	At low O <sub>2</sub> % (less than 93%) will automatically: <ul style="list-style-type: none"> <li>o Isolate concentrator from Storage Tank</li> <li>o Alarm locally and remotely</li> <li>o Shut OC down</li> </ul>
calibration	Gases Required <ul style="list-style-type: none"> <li>o 1 – CGA 540 O<sub>2</sub> Cylinder</li> <li>o 1 – CGA 580 N<sub>2</sub> Cylinder</li> </ul>
automatic compensating	Barometric and Temperature (As per CAN/CSA-Z10083-08, ISO 10083:2006-07-15, Section 6.3.5)
Each analyzer is fully independent of the other and integrates to the PLC independently	

<b>COMPRESSED AIR SYSTEM</b>	
The compressed air system is a separate package with the only connection to the concentrator being the compressed air supply line.	
<b>OIL-LUBRICATED COMPRESSED AIR SYSTEM "OIL-FREE AIR"</b>	
<b>Compressor – Oil Free</b>	
capacity	54 CFM @ 125 psi
electrical	<ul style="list-style-type: none"> <li>o 15.0 H.P.</li> <li>o Voltage: 3PH Standard/208V/575V/60Hz</li> </ul>
controls	<ul style="list-style-type: none"> <li>o Auto Start/Stop, Load/Unload</li> <li>o Discharge Air Temperature Gauge</li> <li>o High Temperature Shutoff</li> <li>o Oil Level Sight Tube</li> </ul>
dimensions	W 31" x H 43" x L 27"
weight	615 lbs.
heat rejection	46260 Btu/hr
sound level	68 dBA @ 1 Meter
discharge pipe	1/2" NPT
min/max ambient temp.	0°C(32°F) min - 40°C(104°F) max
filter	Heavy Duty, Dry - 10 Micron
clearance required	Front & Sides = 36" Rear = 12"

<b>Air Receiver</b>	
capacity	80 (US) Gallons
rating	ASME Rated c/w CRN
dimensions	H 68", Dia 20" (Separate from Compressor Pack)
weight	198 lbs
clearance required	2' Around Circumference
<b>Oil/Particulate Removal Filters</b>	
pre-filter	127 SCFM / Particulate removal down to 1.0 Micron
coalescing	127 SCFM / Particulate removal down to 0.01 Micron

OXYGEN STORAGE TANKS	
capacity	400 (US) Gallons )
rating	ASME Rated c/w CRN
dimensions	H 103", Dia 36"
weight	740 lbs.
clearance required	2' Around Circumference
oxygen line filter	0.3µm, 99% efficiency filter

OPTIONAL EQUIPMENT - AIRDRYER	
capacity	75 SCFM
rating	Voltage: 115/1/60, 208-230/1/60
dimensions	W 25" x H 33" x L 26"
weight	209 lbs.
horse power	1/3 hp
discharge pipe	3/4" NPT
min/max ambient temp.	7°C(45°F) min - 43°C(110°F) max
clearance required	Front & Sides = 24" Rear = 12"

RECOMMENDED ROOM SIZE	
dimensions	W 12' x H 8' x L 12'
minimum area	144 ft <sup>2</sup>
minimum height	8'

ROOM COOLING REQUIREMENTS (EQUIPMENT HEAT REJECTION)
<ul style="list-style-type: none"> <li>o 58980 Btu/hr</li> </ul>

**Please Note: In accordance with ON<sub>2</sub> Solutions' policy on Continued Development; Specifications may change without notice**