

# Oxygen Generator



Pneumatech is a global leader in the quality air business with more than 50 years in the oxygen business. The Pneumatech brand is associated with quality and high level of innovation.

*The Pneumatech Oxygen generator is a newly developed product to fit the increased demand of oxygen supply at our customers site. In order to save the environment from unnecessary transportation of gas tubes, in combination with a flexible supply of oxygen makes many companies to switch to onsite gas generators. In the long term the most cost effective way of providing oxygen is to install an on-site gas generator.*



## PPOG 1-120

Design standards	PPOG 1-120
Purity	90-95%
Pressure range oxygen	1-6 Bar
Voltages	115-230V
Frequency	50-60Hz
Controller	Purelogic™ controller
Technology	Pressure swing adsorption (PSA)
Usage	Continues
Flexibility	On-site gas generation
Options	Limited
Common applications	Bleaching, blast furnaces, fish farming, general industry, medical, waste water treatment

Important features & benefits
Easy to install – Plug & play philosophy
Produces oxygen when you need it - only requirement is that your factory has access to clean compressed air
Cost savings – service and installation cost is kept to a minimum
In-house design – smart and innovative design features developed by our own engineering team
Exact purity levels – In an easy way set the purity levels (90, 93 or 95%) to fit your production needs
The new 93% purity level, suitable for medical applications

Options	PPNG 1 - 120
Inlet PDP sensor - protection against too high inlet air pressure dew point	•
Flow meter - Indication for the outlet flow produced	√
Seaworthy packaging - overseas transport	•
Oxygen buffer vessel - Oxygen suited buffer vessels	•

√ Standard  
• Optional



Type	Purity %	Oxygen flow*		Air flow**		Vessel size-generator		Dimensions					
		Nm <sup>3</sup> /h*	cfm*	Nm <sup>3</sup> /h**	cfm**	l	gl	mm			in		
								L	W	H	L	W	H
PPOG-1	90.0	2.0	1.2	22.2	14.1	40.0	151.4	600.0	743.0	1503.0	23.6	29.3	59.2
PPOG-1.5	90.0	3.1	1.8	30.0	17.7	60.0	227.1	600.0	743.0	1526.0	23.6	29.3	60.1
PPOG-2	90.0	3.8	2.2	36.0	22.9	90.0	340.7	750.0	750.0	1811.0	29.5	29.5	71.3
PPOG-3	90.0	4.6	2.7	54.0	34.4	90.0	340.7	750.0	750.0	1811.0	29.5	29.5	71.3
PPOG-4	90.0	6.6	3.9	72.0	45.8	150.0	567.8	850.0	800.0	1654.0	33.5	31.5	65.1
PPOG-5	90.0	7.9	4.7	102.0	64.9	150.0	567.8	850.0	850.0	1654.0	33.5	31.5	65.1
PPOG-6	90.0	9.7	5.7	129.0	75.9	280.0	1059.8	1120.0	826.0	1972.0	44.1	32.4	77.6
PPOG-8	90.0	14.2	8.4	154.8	98.5	280.0	1059.8	1120.0	826.0	1972.0	44.1	32.4	77.6
PPOG-11	90.0	18.5	10.9	189.0	120.2	350.0	1324.8	1190.0	907.0	2279.0	46.9	35.7	89.7
PPOG-12	90.0	20.3	12.0	216.0	137.4	500.0	1892.5	1230.0	940.0	2307.0	48.4	37.0	90.8
PPOG-14	90.0	23.4	13.8	252.0	160.3	580.0	2195.3	1230.0	940.0	2707.0	48.4	37.0	106.6
PPOG-17	90.0	29.3	17.2	324.0	206.1	800.0	3028.0	1640.0	1097.0	2370.0	64.6	43.2	93.3
PPOG-20	90.0	35.1	20.7	360.0	229.0	1000.0	3785.0	1765.0	1135.0	2444.0	69.5	44.7	96.2
PPOG-26	90.0	45.3	26.6	510.0	324.5	1500.0	5677.5	1965.0	1188.0	2993.0	77.4	46.8	117.8
PPOG-33	90.0	56.0	32.9	624.0	397.0	1500.0	5677.5	1965.0	1188.0	2993.0	77.4	46.8	117.8
PPOG-39	90.0	66.1	38.9	786.0	500.1	1700.0	6434.5	1965.0	1188.0	2993.0	77.4	46.8	117.8
PPOG-50	90.0	85.5	50.3	966.0	614.6	2000.0	7570.0	2470.0	1337.0	3160.0	97.2	52.6	124.4
PPOG-63	90.0	106.8	62.9	1224.0	778.7	3000.0	11355.0	2970.0	1478.0	3530.0	116.9	58.2	139.0
PPOG-93	90.0	157.7	92.8	1836.0	1168.1	2000.0	7570.0	2470.0	2610.0	3360.0	97.2	102.8	132.3
PPOG-120	90.0	203.5	119.8	2208.0	1404.8	3000.0	11355.0	2970.0	2918.0	3283.0	116.9	114.9	129.3

\*\* To size the compressor, use 10% extra flow margin compared to the values mentioned in the air flow field.

*Reference conditions	Metric	Imperial
Ambient temperature	20°C	68°F
Unit inlet temperature	20°C	68°F
Unit working pressure	6 barg	87 psig
Unit outlet oxygen purity	90.0%	90.0%
Compressed air inlet quality	ISO8573-1 class 1-4-1	ISO8573-1 class 1-4-1

Outputs (min/max)		
Maximum compressed air inlet temperature	45°C	113°F
Maximum ambient temperature	45°C	113°F
Minimum compressed air inlet temperature	5°C	41°F
Minimum ambient temperature	5°C	41°F
Minimum compressed air inlet pressure	4 barg	58 psig
Maximum compressed air inlet pressure	7.5 barg	110 psig



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