

# Oxygen generators

## PPOG 1-137



The PPOG is Pneumatech's reliable on-site oxygen generator, giving you a stable supply of O<sub>2</sub> with a guaranteed purity. The PPOG's Pressure Swing Adsorption (PSA) technology ensures all your specifications are met with reduced operational costs and emissions. Its proven extruded profile design ensures dependable operation and a long lifetime, making the PPOG the smart alternative to ordering and storing gas cylinders.

### PSA oxygen generation

The PPOG uses Pressure Swing Adsorption (PSA) technology to generate oxygen. It pushes compressed air through Zeolite Molecular Sieve (ZMS) material, which adsorbs the nitrogen and other trace gases in the air, leaving oxygen with a purity of up to 95% to reach the outlet.

### Features & Benefits:

- Cost-efficient alternative to gas cylinders
- Outstanding energy efficiency
- Purity selection up to 95%
- Compact footprint
- Easy to install
- Cleaned for O<sub>2</sub> usage, in line with global standards
- Plug-and-play installation with automatic start-up
- Easy purity setting
- Guaranteed purity and cleanliness
- Optimal control and monitoring thanks to the Purelogic™ Controller

### General Specifications

- Pressure Swing Adsorption (PSA) oxygen generator
- Oxygen purity achievable up to 95%
- Inlet pressure range: 6-10 barg/87-145 psig
- Inlet temperature range: 5-45°C/41-113°F
- Required inlet air quality: 1-4-1 according to ISO 8573-1:2010
- Power supply: 115V AC/230V AC & 50/60Hz
- IEC, UL approvals

# Proven, reliable design

**Guaranteed purity**

- The precise oxygen analyzer, included as standard, continuously measures purity every unit of O<sub>2</sub> produced.

**Long lifetime**

- The PPOG's protective features, including the optional inlet PDP sensor, ensure a long machine and ZMS lifetime.

**Efficiency**

- Thanks to the high-quality ZMS adsorbent, the PPOG delivers best-in-class efficiency to keep your energy costs down and emissions low.

**Advanced Purelogic™ Controller**

- Color touch screen shows machine status, key parameters, service information
- Purity alerts
- Automatic stand-by for operational savings
- 24/7 ICONS remote, real-time monitoring of flow, pressure, purity and other key data
- Connectivity options

## Technical specifications for PPOG 1-137

Type	Product	Units	PPOG 1		PPOG 1.5		PPOG 2		PPOG 3		PPOG 4		PPOG 8		PPOG 12		PPOG 15		PPOG 22	
			Purity ↓	Nm³/hr	Scfm	Nm³/hr	Scfm	Nm³/hr	Scfm	Nm³/hr	Scfm	Nm³/hr	Scfm	Nm³/hr	Scfm	Nm³/hr	Scfm	Nm³/hr	Scfm	Nm³/hr
Oxygen capacity	90%		1.8	1.1	2.6	1.5	3.7	2.2	5.6	3.3	6.2	3.7	13.1	7.7	20.5	12.1	25.0	14.7	37.4	22.0
	93%		1.7	1.0	2.5	1.5	3.5	2.1	5.4	3.2	6.0	3.5	12.6	7.4	19.8	11.6	24.0	14.1	35.9	21.6
	95%		1.6	0.9	2.3	1.4	3.3	1.9	4.5	2.6	5.4	3.2	11.4	6.7	17.1	10.0	21.4	12.6	31.9	19.2
Air flow	90%		18.8	11.5	24.9	14.9	35.3	21.2	62	37.2	68.7	41.2	125.8	75.5	203.6	122.2	258.3	155.0	386	231.6
	93%		18.8	11.5	24.9	14.9	35.3	21.2	62	37.2	68.7	41.2	125.8	75.5	203.6	122.2	258.3	155.0	386	231.6
	95%		18.8	11.5	24.9	14.9	35.3	21.2	62	37.2	68.7	41.2	125.8	75.5	203.6	122.2	258.3	155.0	386	231.6
Dimensions	Width	mm	500		500		500		580		650		780		930		1150		1340	
	Length		650		650		700		650		750		800		900		1150		1250	
	Height		1580		1580		2080		2000		1890		2050		2200		2220		2320	
	Width	inch	20		20		20		23		26		31		37		45		53	
	Length		26		26		28		26		30		31		35		45		49	
	Height		62		62		82		79		74		81		87		87		91	
Weight		kg	180		230		290		370		490		730		910		1300		1800	
		lbs	397		507		639		816		1080		1609		2006		2866		3968	

Type	Product	Units	PPOG 29		PPOG 40		PPOG 46		PPOG 58		PPOG 79		PPOG 91		PPOG 119		PPOG 137	
			Purity ↓	Nm³/hr	Scfm	Nm³/hr	Scfm	Nm³/hr	Scfm	Nm³/hr	Scfm	Nm³/hr	Scfm	Nm³/hr	Scfm	Nm³/hr	Scfm	Nm³/hr
Oxygen capacity	90%		49.0	29.0	67.4	40.0	77.8	46.0	98.6	58.0	134.9	79.1	155.7	91.3	202.4	118.7	233.5	137.0
	93%		47.4	28.4	64.9	38.0	74.8	44.9	94.8	56.9	129.7	77.8	149.7	89.8	194.6	116.7	224.5	134.7
	95%		42.4	25.4	56.9	33.0	65	38.9	86.8	52.1	113.8	68.3	129.7	77.8	170.6	102.4	194.6	116.7
Air flow	90%		475.9	285.5	646.7	388.0	748	448.9	951.8	571.1	1297	778.2	1497	898.2	1945	1167.0	2245.2	1347.1
	93%		475.9	285.5	646.7	388.0	748.2	448.9	951.8	571.1	1297	778.2	1497	898.2	1945	1167.0	2245.2	1347.1
	95%		475	285.0	646.7	388.0	748.2	448.9	951.8	571.1	1297	778.2	1497	898.2	1945	1167.0	2245.2	1347.1
Dimensions	Width	mm	1500		1830		1830		2295		2430		2430		6550		6550	
	Length		1350		1400		1400		2210		2470		2470		1400		1400	
	Height		2490		2500		2920		2490		2500		2920		2500		2920	
	Width	inch	59		72		72		90		96		96		258		258	
	Length		53		55		55		87		97		97		55		55	
	Height		98		98		115		98		98		115		98		115	
Weight		kg	2550		3000		3500		5300		6400		7200		10000		11500	
		lbs	5622		6614		7716		11684		14110		15873		22046		25353	

Pressure dewpoint outlet: -40. Maximum pressure drop: 2 bar. Oxygen capacity can vary up to ±5%. Oxygen purity can vary up to ±1%. Outlet oxygen 1:2:1 according to ISO 8573-1:2010. Reference conditions: Ambient/inlet temperature: 20°C/68°F, Inlet pressure: 6 bar (g)/87psi (g), Inlet air quality: 1:4:1 according to ISO8573 1:2010, Humidity: 0% RH.

## Options

**Inlet PDP sensor**  
Continuously monitors the inlet compressed air to protect the ZMS.

**Oxygen flow sensor**  
Measures the oxygen flow at the outlet of the gas generator.

**External oxygen analyzer (wall mounted)**  
Measures the oxygen level in a room to ensure safety.

**Oxygen purity check**  
Flushing measures every unit of oxygen before allowing it to reach your application for an absolute purity guarantee