EnOxy 604 Oxygen Membrane Module

Parker hollow-fibre membrane modules produce oxygen enriched air from compressed air to offer a cost effective, reliable and safe alternative to traditional oxygen gas supplies.

Parker modules can be built into a custom-made oxygen generator or can be integrated with your process to provide an on-demand, continuous source of oxygen gas.

Oxygen enriched air is used in many health and wellness related applications such as nitrox diving, oxygen bars and oxygen training rooms.



Contact Information:

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Official Parker Distributor

Avilo is a worldwide supplier of parker membranes. Always in stock. Fast delivery

Benefits:

• Less membrane modules needed per enrichment system More enriched air per fibre is produced from Parker hollow-fibre membranes

than any other in the worldUse of low pressure standard industrial compressor

No high pressure compressor needed to obtain required enriched-oxygen flow

- Energy savings Operation at a low pressure requires less energy
- Reduced CO₂ emissions No heater required to open polymer membrane structure, thus reducing the energy consumption
- Robust fibre
 Most tolerant fibre to particle contamination
- Large membrane diameter
 Lowest membrane module pressure drop

- Strong engineering plastic Life-expectancy of more than 10 years
- Factory membrane ageing, pre-delivery No performance decrease over time due to fibre ageing
- Quick start-up time Required enriched-oxygen purity is produced instantly, no time needed to heat-up
- Flexible mounting arrangements Can be mounted horizontal or vertical
- Low noise operation Radiated noise generated by membrane technology is extremely low
- No maintenance required No user serviceable parts
- Small system footprint Less modules needed to produce oxygen enriched air requirements





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Performance data

Standard test criteria are at 7 bar g, other specification points are an indication

Oxygen	Minimum enriched oxygen flow rate in I/min							
purity %	28	30	32	34	36	38	40	
4 bar g	35.7	36.6	37.4	38.2	39.0	39.8	-	
5 bar g	45.5	46.6	47.6	48.6	49.7	50.7	51.7	
6 bar g	55.6	56.8	58.1	59.3	60.6	61.9	63.1	
7 bar g	65.9	67.4	68.9	70.4	71.8	73.3	74.8	
8 bar g	76.4	78.1	79.9	81.6	83.4	85.1	86.8	
9 bar g	87.2	89.2	91.2	93.2	95.2	97.2	99.1	
10 bar g	98.3	101	103	105	107	109	112	
11 bar g	110	112	115	117	120	122	125	
12 bar g	121	124	127	130	132	135	138	

Enriched oxygen flow exits at atmospheric pressure Maximum pressure drop over nitrogen enriched flow <0.3 bar.

Maximum enriched oxygen flow rate = minimum flow rate + 30%

^{1.} I/min refers to conditions at 1013mbar(a) and 20°C

Ambient Conditions

Ambient temperature	+2°C to +50°C
Ambient pressure	atmospheric
Air quality	clean air without contaminants

Feed-air Conditions

Maximum operating pressure	13.0 bar g
Min. / Max. operating temperature	+2°C / +50°C
Maximum oil vapour content	<0.01 mg/m ³
Particles	filtered at 0.01 µm cut off
Relative humidity	<100% (non condensing)

Flow Rate Corrections

Nitrogen flow rate at feed temperatures other than 20°C	Use bulletin S3.1.085*
Feed-air consumption at feed-air temperatures other than 20°C	Use bulletin S3.1.085*

 * version number may vary, make sure to use the most recent version

Oxygen purity %	Feed-air consumption at minimum enriched oxygen flow rate in I/min						
	28	30	32	34	36	38	40
4 bar g	49.3	57.2	67.3	83.2	109	155	-
5 bar g	62.8	71.6	82.8	99.7	124	162	279
6 bar g	76.7	87.1	101	117	147	186	278
7 bar g	90.9	103	120	139	167	209	299
8 bar g	105	120	139	161	194	243	334
9 bar g	120	136	159	184	223	277	377
10 bar g	136	154	179	208	252	318	441
11 bar g	152	172	201	233	287	366	525
12 bar g	169	191	222	259	321	419	624

Material

Housing	Steel
Tube	Aluminium
Coating (housing)	ESPC to Ral 7035 (Light Grey)
Coating (tube)	None

Services on Request

3D model CAD STEP file

Weight, Dimensions and Connections

Dimensions H x W x D	757 x 80 x 63 mm
Weight	3.2 kg
Connection feed-air	G ³ /8" female to ISO 228
Connection nitrogen enriched air	G ³ /8" female to ISO 228
Connection oxygen enriched air at atmospheric pressure	G ³ /8" female to ISO 228
Dimensional drawing	Refer to K3.1.344

Note

Parker membrane systems produce both nitrogen and oxygen enriched air. Nitrogen enriched air can cause suffocation and oxygen enriched air causes increased fire hazards. The oxygen enriched air is available at ambient pressure and pressure build-up of enriched oxygen at the outlet must be prevented, otherwise a serious (reversible) decrease in performance will result. The nitrogen enriched air produced should be treated as pressurised air.

For more information please visit www.avilo.nl

Parker has a continuous policy of product development and although the company reserves the right to changes specifications, it attempts to keep customers informed of any alterations.

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