EnOxy 304

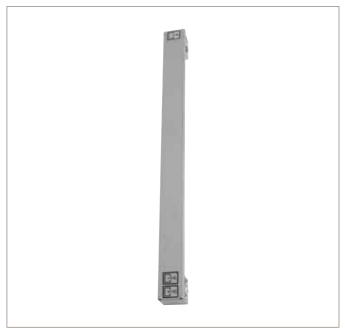
Oxygen Membrane Module



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 world
- Use 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





Performance data

Standard test criteria are at 7 bar g, other specification points are an indication $% \left(1\right) =\left(1\right) \left(1$

Oxygen	Minimum enriched oxygen flow rate in I/min '						
purity %	28	30	32	34	36	38	40
4 bar g	16.9	17.3	17.7	18.1	18.4	18.8	-
5 bar g	21.5	22	22.5	23.0	23.5	24.0	24.5
6 bar g	26.3	26.9	27.5	28.1	28.7	29.3	29.9
7 bar g	31.1	31.9	32.6	33.3	34.0	34.7	35.4
8 bar g	36.1	37.0	37.8	38.6	39.4	40.2	41.1
9 bar g	41.3	42.2	43.1	44.1	45.0	45.9	46.9
10 bar g	46.5	47.5	48.6	49.7	50.7	51.8	52.8
11 bar g	51.9	53	54.2	55.4	56.6	57.8	58.9
12 bar g	57.3	58.6	59.9	61.3	62.6	63.9	65.2

Oxygen	Feed-air consumption at minimum enriched oxygen flow rate in I/min						
purity %	28	30	32	34	36	38	40
4 bar g	24.5	28.4	33.4	41.3	54.2	77.1	-
5 bar g	31.2	35.5	41.1	49.5	61.7	80.6	139
6 bar g	38.1	43.3	50.2	58.1	72.8	92.2	138
7 bar g	45.1	51.2	59.5	68.8	83.1	104	149
8 bar g	52.4	59.4	69.0	79.9	96.5	120	166
9 bar g	59.8	67.8	78.8	91.2	111	137	187
10 bar g	67.4	76.6	88.8	103	125	158	219
11 bar g	75.7	85.7	99.6	116	143	182	261
12 bar g	83.7	95.0	110	129	160	208	310

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% $^{1}\cdot$ l/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

Material applicable for EnOxy 304, 604 606

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

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)

Services on Request

3D model CAD STEP file	

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.

Weight, Dimensions and Connections

Dimensions H x W x D	386 x 80 x 63 mm
Weight	2.3 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 K3.1.348

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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