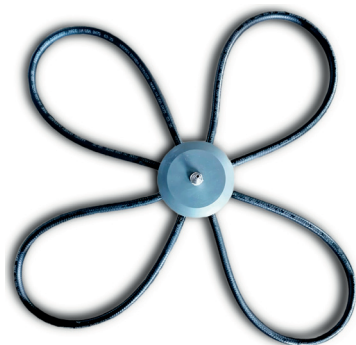


CUBOX® HD

OXYGEN DIFFUSER



Self-compensating diffuser

CUBOX® is compatible with oxygen lines operating at pressures between 2.8 and 4.8 bar (40 – 70 psi), maintaining a constant oxygen flow without the need for valves or flowmeters.

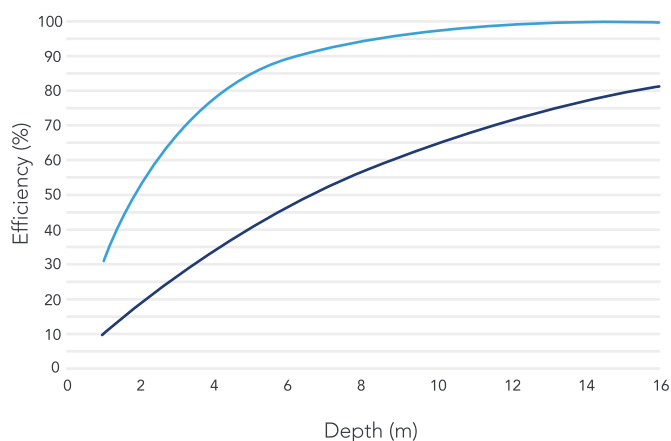
Technical specifications

	Cubox 16	Cubox 32	Cubox 64	
Design flow rate	13,9 - 16,5	31,3 - 35,6	63,9 - 74,2	lpm
Compensation pressure	2,8 - 4,8	2,8 - 4,8	2,8 - 4,8	bar
	40 - 70	40 - 70	40 - 70	psi
Micro-perforations	6.000	6.000	6.000	p/m
Bubble size	50 - 250	50 - 250	50 - 250	µm
Inner hose diameter	6,35	6,35	6,35	mm
	1/4	1/4	1/4	in
Outer hose diameter	12,7	12,7	12,7	mm
	1/2	1/2	1/2	in
Total hose length	3	6	10,5	m
Saltwater efficiency*	31	31	31	%/1mca
Burst pressure	6,9	6,9	6,9	bar
	100	100	100	psi

Measurement conditions: water column height of 1 mH₂O; temperature of 10°C; freshwater with 50 ppm of dissolved solids and seawater with 30 ppt salinity; dissolved oxygen saturation range between 20% and 100%; oxygen extraction method: nitrogen (N₂) gas stripping.

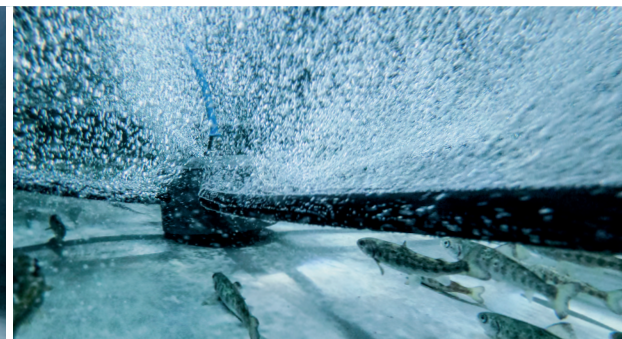
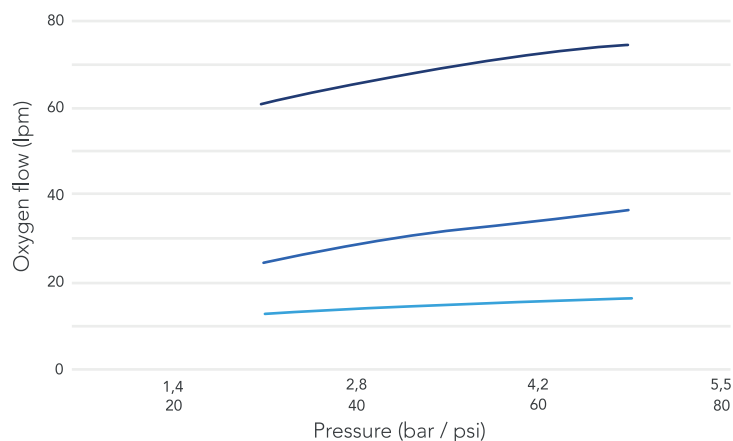
Depth-dependent efficiency

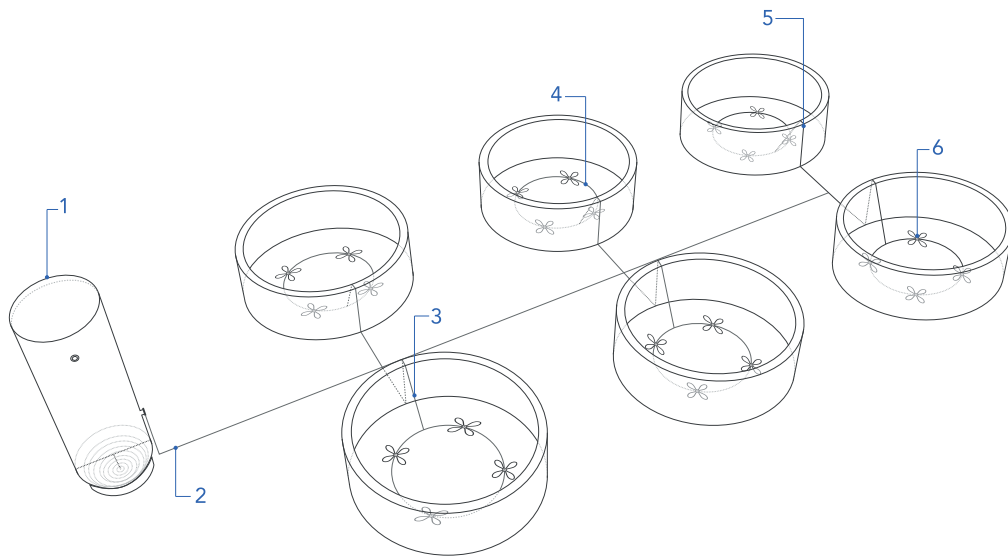
— Saltwater — Freshwater



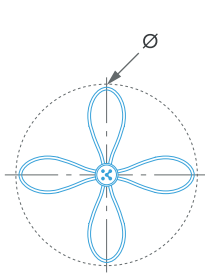
CUBOX flow rate as a function of pressure

— CUBOX 16 lpm — CUBOX 32 lpm — CUBOX 64 lpm



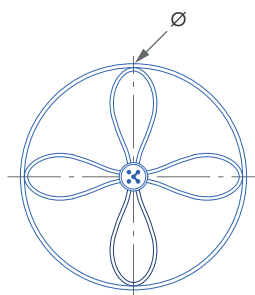


- 1 Oxygen tank
- 2 Oxygen network
- 3 8 mm tubing
- 4 Series connection
- 5 Valve-free and flowmeter-free
- 6 CUBOX diffuser



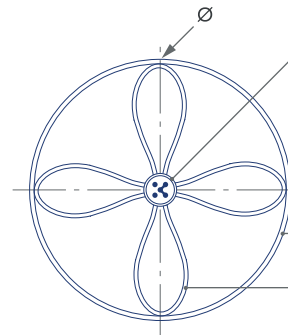
16

CUBOX 16 lpm
550 mm ø
Weight: 1.4 kg



32

CUBOX 32 lpm
950 mm ø
Weight: 1,9 kg.



64

CUBOX 64 lpm
1600 mm ø
Weight: 2,5 kg.

Self-compensating manifold
Connection:
Hose barb or fitting with 1/2" NPT thread
316L stainless
Micro-perforated hose

Pure oxygen conversion factors

	WEIGHT		GAS		LIQUID*	
	kg	lb	m ³ (15°C, 1 atm)	scf (70°F, 1 atm)	l (1atm)	Gal (1atm)
1 kg	1	2,2046	0,7386	26,631	0,8764	0,2315
1 lb	0,4536	1	0,3350	12,079	0,3975	0,105
1m ³	1,354	2,985	1	36,06	1,1867	0,3135
1 scf	0,0375	0,08279	0,02773	1	0,03291	0,008695
1 l	1,141	2,5155	0,8427	30,384	1	0,2642
1 gal	4,319	9,522	3,1899	115,02	3,7854	1

14,7 psi = 10mca = 1 bar = 1 atm | 1m³ GOX = 1.354 kg | GOX – Gaseous Oxygen | *At boiling temperature

