AquaMaof technologies Ltd.

SUBflex

SUBflex - A Netcage System for Open Sea Aquaculture

Next level marine aquaculture is advancing to the open sea, a few miles offshore, where water quality is superior and where farming can co-exist with tourism, marine wildlife and coastline trade and development..

SUBflex is a single-point mooring submersible and flexible netcage aquaculture system. The single-point mooring function generates circular movement around a single anchor, dispersing feces to a diameter of 1,000 meters. The construction supporting the net comprises of high-density polyethylene, creating a strong and flexible structure that can continuously move in the current and waves.

The technology enables the system's pipes to haul seawater prior to a predicted storm in a bid to submerge the system to the sea bottom. Once the storm subsides the pipes are refilled with air to re-float the cages.

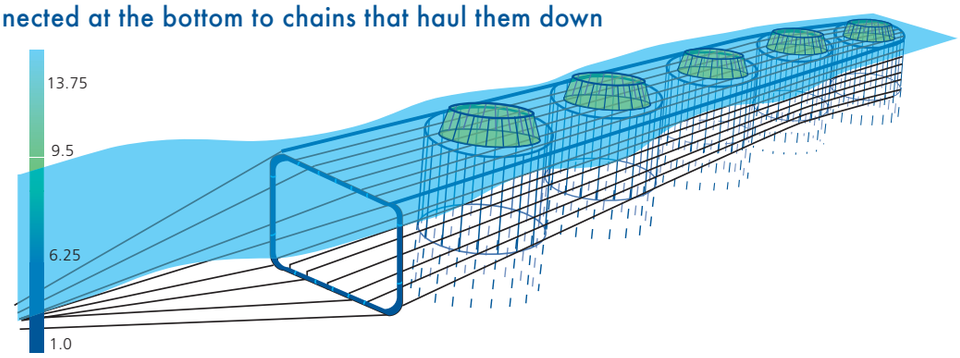
SUBflex's first half-scale farm was installed in 2004 within East Mediterranean waters, 2 km offshore. The cages and fish (Gilthead seabream) survived storms with 7-8 meter waves at submerged states, and survived waves of 2-3 meters at surface states. Open sea biological conditions proved to be ideal; oxygen levels are high, constant currents provide fish with excellent water exchange and the amount of fouling on the net is minor.

The first full-scale SUBflex system (300-350 ton/year), assembled on Israel's south coast, will be anchored in the Mediterranean, 11 km offshore at 60 meters depth.

AquaMaof technologies Ltd.

Product description

- A flexible single-point mooring submersible netcage system with diving capabilities.
- The anchor unit, based on a proprietary design, adjusts itself to specific local maritime conditions including; wave swell, wind, currents etc,.
- The main frame is connected through 300 meter length cords that all join a central cord linked to the anchor
- Two long pipes (140 meters) provide strength and flexibility, helping to navigate the construction for floating or submerging
- 5 - 6 nylon cages are, exposed to the surface at the top mid-point
- The cages are connected at the bottom to chains that haul them down



Dimensions

	12 m Diameter	16 m Diameter	18 m Diameter
Length (m)	106	140	160
Mooring circle Diameter (m)	600	1,000	1,200
Net draft (m)	8	12	12
Single cage volume (m^3)	905	2,410	3,053
Total system volume (m^3)	4,525	12,050	15,265
Seabed depth (m)	40-55	50-60	50-80
Production (ton/year) at density of 20 kg/m^3	90	240	305
Production (ton/year) at density of 25 kg/m^3	115	300	380

For additional information:

AquaMaof Technologies Ltd.
P.O. Box 3599
14135 Tiberias, Israel
T: +972 (0) 4 673 7630
F: +972 (0) 4 673 7633
email: info@aquamaof.com

www.aquamaof.com