

SAR SINGLE PERSON LIFE RAFT

1XL P/N 61010

APPLICATION

The SAR 1XL is a lightweight inflatable life raft with a nominal capacity for one person and provides primary survival for SAR personnel when deploying in a maritime environment. It also functions as a rescue platform for victims and for carrying and towing SAR equipment during operations on water. The SAR 1XL life raft incorporates improved stability and improved functionality in extreme cold-weather environments while accommodating SAR specific clothing and equipment.

DESCRIPTION

The hull design consists of a single, boat-shaped buoyancy chamber offering greater buoyancy at the bow to achieve optimum stability when laden with an occupant. A manually inflated floor, cemented to the underside of the hull center line, offers thermal insulation; while weather protection is provided by a hooded canopy/shield cemented to the upper center-line of the hull. Floor inflation is achieved manually with the hand pump provided in the kit or via an oral tube and valve located on the upper tube surface inside the raft. The floor is designed to offer a 5-inch drop at the seating area to lower the raft center of gravity. Directional stability is provided by a trailing sea anchor which maintains the bow into the wind. Additional stability is afforded by water ballast pockets located at the bow on the underside of the floor. Four hand grips are located on the upper side of the hull to facilitate boarding.

GAS INFLATION SYSTEM

The hull/buoyancy chamber is inflated by a 0.50 lb CO₂ gas charge stored in a high pressure cylinder located on the hull. The cylinder is fitted with a poppet type valve, held in check with a ball type flexible stainless steel pull cable.



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FEATURES

- Fully inflatable floor
- Spray hood face-shield
- Canopy can accommodate dive fins
- Non-locking zippered closures including zippered arm-holes
- Retro-reflective taping for increased visibility
- Water-activated sea light
- Chest-stowage pocket for Firefly strobe light
- Collapsible water pockets
- Sea anchor stowage pouch
- Integrated bailing tube
- Elasticized tether with carabineer

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TECHNICAL DATA

Service Capacity	1 Person
Overall Length	66.00 inches
Overall Width (Across the Bow)	37.00 Inches
Tube Diameter (Across the Bow Center Line)	9.75 inches
Tube Diameter (Across the Stern Center Line)	5.25 inches
Volume of Buoyancy Tube	4.25 cubic feet
Buoyancy Tube Displacement	266.00 lbs
Maximum Effective Displacement	487.00 lbs
Weight of Raft (Less Inflation & Ancillary Equipment)	5.50 lbs
Gas Inflation Equipment:	
Approx. CO2 Cylinder (Tare)	1.50 lb
Gas Charge (Net)	0.50 lb
Approx. Gross Weight	2.00 lb

LIFE RAFT EQUIPMENT

A sea anchor (drogue) and bailing cup are provided. Survival equipment can be provided according to individual customer requirements.

PACKING OPTIONS

The life raft is normally packed in a valise for aircraft under-seat stowage or in a life raft survival kit (LRSK) integrated with SAR parachute harness. Custom stowage configurations can be provided.

MAINTENANCE INTERVAL

The recommended period to overhaul is 12 months if stowed in a container inside the passenger cabin of an aircraft.