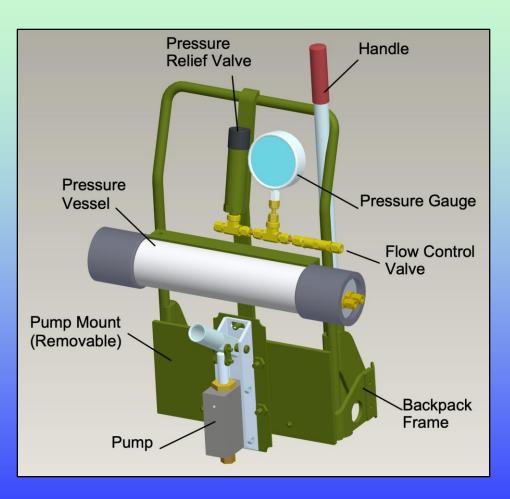


Backpack-Mounted Desalinator

Jason Davis, Mike Mrzlack, David Robbins, Matt Simmons, Jesse Tharp

Objective

Design a compact, manually operated reverse osmosis desalination system that can be used in case of emergency or extended sea voyage





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Membrane	Applied Pressure (psig)	Size (Diam. × Length)	Salt Rejection	ALL DA
SW30-2514	800	2.5" × 14"	99.4%	U. S. military
Pressure Vessel	Working Pressure (psig)	Size (Diam. × Length)	Material	ALICE backpack frame
RO2531	1000	2.8" × 17.1"	fiberglass	