

Twinlock Recompression Chambers

SEARCH & RESCUE, MINEHUNTER & DOUBLE LOCK

DESCRIPTION

JFD Cowan has extensive experience in the design and manufacture of Twin Lock Chambers. These consist of stationary and portable chambers each with an inner and outer lock.

Twin Lock Chambers have been designed and manufactured to Milspec requirements for the US, Thailand, Philippines and Australian Navies. Other applications include commercial diving and search and rescue, including police rescue.



Twin Lock Recompression Chamber System comparison table:

	SEARCH & RESCUE	MINEHUNTER	DOUBLE LOCK CHAMBER (US Navy 54" Standard)
Standard Occupants	6	4	6
Seating Main Lock	4 (3 seated + bunk)	2 (stretcher + bench)	4 (3 seated + stretcher)
Seating Entry Lock	2 seated	2 seated	2 seated
Stretcher	bunk style	mechanical sliding	mechanical sliding
Material	carbon steel	316L stainless steel	stainless steel
Length	3525mm	3357mm	3852mm
Diameter	1500mm	1200mm	1350mm
Doorway Openings	661mm diameter (stainless)	661mm diameter (stainless)	762mm diameter (stainless)
Max Operating Pressure	690kPa (6.9 bar)	500kPa (5 bar)	690kPa (6.9 bar)
Max Operating Depth	70msw	50msw	70msw
Operating Console	attached to chamber	attached to chamber	attached to chamber
Supports	shock mounts (skids optional)	shock mounts	lifting skids
Viewports Inner Lock	2	2	3
Viewports Outer Lock	1	1	2
Lighting	inner + outer locks	inner + outer locks	inner + outer locks
Medical Lock	146mm diameter	146mm diameter	304mm diameter
Communications	sound powered phone	full system	full system
Piping	stainless steel with O ring seals	stainless steel with O ring seals	stainless steel with O ring seals
CO₂ Scrubber	yes - air powered	yes - air powered	yes - electrically powered
Gas Systems	air and oxygen	air, oxygen and mixed gas	air, oxygen and mixed gas
Gas System Redundancy	no (optional, at extra cost)	yes - on all systems	yes - on all systems
Oxygen BIBS Capacity	6 (4+2)	4 (2+2)	6 (4+2)
NATO Flange Capability	no	female flange included	yes
Air Conditioning	optional	yes + external insulation	heating and cooling
Fire Extinguisher	-	hand held	hand held
Design Code	AS 1210 - 1997	AS 1210 - 1997	ASME
Third Party Certification	Lloyds Register	Lloyds Register	Lloyds Register