

AP NAUTILUS®

Technical Specifications



ENCLOSURE SIZE	CAPACITY	WEIGHT
24" T x 24" W x 18" D	144/288 Distribution - 9RU (Swing-Out Rack)	100 lbs - (Empty Cabinet), 145 lbs. - (Mounting Frame)

FEATURE	DESCRIPTION	MATERIALS, FINISH & STANDARDS
Cabinet Construction	Cabinet walls, top, bottom, doors & door frames are of fully sealed welded aluminum construction.	Constructed out of .125" thick 5052-H-32 Aluminum. All surfaces powder coated smooth beige, outdoor rated TGIC. Designed, built and tested to NEMA 6 Standards, NEMA 250 section 5.12 (submersion).
Interior Swing-out 9RU 19" rack frame	19" swing-out equipment rack frame (9RU). Rack rails are designed to accept 12-24 floating cage nuts. 12-24 screws, washers and cage nuts included with the cabinet. Fiber troughs and routing saddles are included within the vertical length on each side of rack for cable management. Additional cable tie slots on all sides included. 9RU Swing-out rack frame secured with custom slam latching mechanism.	Rack rails are constructed out of 12 gauge galvanized steel and powder coated matte black and labeled with RU designations. Rack frame designed to EIA standards.
Door handle/Latch	4-sided proprietary single handle sealed pad lockable door latch heavy duty handle. Patent Pending	4 point submersible compression latching system designed, built and tested to NEMA 6 standards. All handles, fasteners and latching components are made from stainless steel.
Door Gasket Seal	Unique double bulb gasket seal with PSA backing applied to the interior perimeter of both door & door frame for durable submersible sealing applications.	Gasket material is UL 50 & FMVSS 302 rated EPDM closed cell foam for gasketing & sealing applications compliant to NEMA 6P (submersion). 1.5" open 16 ga. (.060" thick) stainless steel piano hinge with 1/8" diameter pin and 1/2" knuckles. Hinge attached with sealed stainless fasteners.
Door Hinge	Continuous piano hinge running full length of left side of the door	1.5" open 16 ga. (.060" thick) stainless steel piano hinge with 1/8" diameter pin and 1/2" knuckles. Hinge attached with sealed stainless fasteners.
Cable Entrances	(3) sealing glands for cables ranging up to 3/4" diameter. Includes custom strain relief brackets with strength member clamping provisions.	Heyco liquid tight break-thru nylon cordgrips with TPE sealing glands. Rated and approved for sealing applications under NEMA 4, 4X, 6 & 6P and up to IP68. UL listed 94V-2 standard, temperature range from -40°F (-40°C) to 239°F (100°C).
Grounding Provisions	Door ground strap, terminal strip for chassis ground and masked grounding positions for cabinet components.	6AWG braided cable door grounding strap secured to masked studs. 7 position aluminum terminal strip mounted to interior left side wall, masked areas for grounding the cabinet assembly to the mounting frame/lift assist assembly and for bonding incoming shielded cables.
Door Stops	Integrated door wind guard stop on sealed door.	Custom door wind guards constructed out of 304 stainless steel. Holds door open at approximately 95°, lift to close.
Mounting frame with Lift-Assist	Nautilus cabinets and mounting frames will come factory installed into vaults. Frames will include factory installed proprietary lift assist mechanism with locking provisions to secure the cabinet in both the closed and upright (service) positions.	Mounting frame is constructed out of 12 & 8 gauge galvanized steel structural components and 14 gauge galvanized steel frame members, bolted construction. All stainless fasteners utilized.
	Patent	Pat. 10,362,710 B2

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