

Hypobaric Altitude Chamber

CAPABILITY SHEET - AIRCREW TRAINING & ALTITUDE TEST - ENGINEERED TO ORDER

THE SYSTEM

WHAT	A hypobaric chamber is a human-rated vessel pumped down in pressure to simulate altitude on the ground - for aircrew training and altitude testing of equipment.
OUR ROLE	Neometrix engineers the vessel and lock, integrates the vacuum plant, and builds the oxygen consoles, controls, monitoring and interlocks, then certifies the chamber.
STATUS	Engineered to order; grounded in delivered human-rated chamber, vacuum and oxygen franchises. No specific delivered hypobaric chamber is claimed on this sheet.

THE CHAMBER

VESSEL + LOCK	A multi-seat main chamber built for external-pressure vacuum duty, with viewports and comms, and an airlock and medical lock for entry and exit at altitude.
VACUUM PLANT	Redundant pump sets with rate-controlled climb and descent and dump valves - training profiles to roughly 25,000-43,000 ft simulated, higher unmanned.
OXYGEN AT EVERY SEAT	A console per seat - demand or pressure-demand regulator, mask and emergency supply - with per-seat communications and an attendant station inside.

HUMAN-RATED

TRAIN HYPOXIA	Judgment fails first, so victims rarely notice - each aircrew member meets their own early symptoms once, safely, supervised, and learns the alarm signs.
RAPID DECOMPRESSION	An evacuated reservoir and a fast-acting valve snap the chamber to altitude in seconds - the mask-on drill practised until it is reflex.
AIR BACK IN SECONDS	Emergency repressurisation returns the chamber to ground-level air in seconds, at any time, from any profile - the rating the whole machine is built around.

DISTINCT & HONEST

VS HYPERBARIC + TVC	Our diving chambers take pressure up; the thermal vacuum chamber is unmanned hard vacuum for hardware. This is the human-rated altitude member - we build all three.
OUR FRANCHISE	Pressure vessels, vacuum plant, oxygen life support, controls and certification are ours; vacuum pumps, medical monitors and aircrew equipment are bought-in.
ENGAGEMENT	Send the seats, the profiles and the duty to sales@neometrixgroup.com for a clause-by-clause compliance matrix in two working days.

DEFENCE PROGRAMMES DESK

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