

Hydrogen Pressure-Cycling Facility

CAPABILITY SHEET - HYDRAULIC + GAS CYCLING + CONDITIONED EXTREMES - ENGINEERED TO ORDER

THE SYSTEM

WHAT	Hydrogen pressure-cycling test facilities - the machines that run a tank's entire service life, tens of thousands of fill-vent cycles, before its first real fill.
OUR ROLE	Neometrix engineers the cells, cycling plant, gas loop, conditioning, controls and installation, then commissions, proves and supports through campaigns.
STATUS	Engineered to order; quoted against a hydrogen pressure-cycling test-rig requirement. No delivered cycling facility is claimed.

THE MACHINES

CYCLING PLANT	Intensifiers and pump sets under profile control - ramps, holds and counted cycles to the standards' numbers, parallel manifolds, decay trips.
GAS LOOP	Real hydrogen fill-vent cycles - supply, compression, recovery and safe venting, with pre-cooled fills to the -40 C refuelling pattern.
CONDITIONING	Cycle blocks at the -40 / +85 C class extremes inside integrated climatic chambers - the delivered Neometrix chamber line, engineered as one machine.

THE RULE

THE THIRD LEG	Burst proves the margin; leak proves it is tight; cycling proves the lifetime - the third proof of the type-approval triad, GTR-13 / ISO 19881 pattern.
ASSUME FAILURE	Bunkered cells, remote operation, hydrogen detection, nitrogen inertisation, decay trips - a specimen failure is expected, contained and boring.
EVIDENCE	Every cycle counted, every profile logged, every temperature kept - the certification agency's record, produced by the machine as it runs.

DISTINCT & HONEST

THE FAMILY	The burst chamber and dynamic leak rig of this family are delivered export machines on this site; the component bench was delivered under contract.
OUR FRANCHISE	Cells, cycling plant, gas loop, conditioning integration and controls are ours; compressors, intensifier cores and sensors are bought-in certified.
ENGAGEMENT	Send the specimens, the standards and the cycle counts to sales@neometrixgroup.com for a clause-by-clause compliance matrix in two working days.

DEFENCE PROGRAMMES DESK

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