

Mobile Gas Compression Unit

CAPABILITY SHEET · 90-350 BAR HP AIR · ENGINEERED TO ORDER

THE UNIT

WHAT

THE CORE IDEA

At 350 bar a trace becomes a dose: partial pressure scales with total pressure, so a contaminant harmless at 1 bar sits at ~350x its partial pressure inside a charged cylinder. The machine is a purity chain that happens to include a compressor.

STATUS

Engineered to order. Reference configuration, not yet built - technically qualified in an indigenous-development evaluation; no order followed, so no delivered unit is claimed.

ENVELOPE

COMPRESSION

PURITY

STORAGE & FILLING

~200 L high-pressure bank of four or five approved cylinders, two protective filling boxes with gauges and valves referenced to NFPA practice, guarded outlet port with isolation and NRV, cylinder safety enclosure.

BUILT FOR THE FIELD

THE TROLLEY

Fabricated four-wheel chassis ~2.6 x 1.3 x 1.85 m carrying the ~780 kg unit by road; towing bar with electrical connection for brakes, parking and turn indicators; ground clearance within 500 mm; all-sides-openable canopy; spare-bottle shelf; on-board power socket.

ALTITUDE & COLD

Rated -20 to +55 degC and 0-4,500 m. At 4,500 m the intake air is ~40 % thinner, so delivery, cooling and electrics are sized for thin cold air - the design case, not a footnote.

PROVEN, NOT ASSUMED

Acceptance regime in the scope of supply: functional testing with gas-purity verification at a high-altitude station, road test of 2 x 20 km cycles with post-road verification, cold test at -20 degC, and 100 % production acceptance testing with QA witness.

SOURCING & ENGAGEMENT

WHAT IS BOUGHT

The compressor block (the specification itself allows any suitable make), CO2 desiccator, purification cartridges and approved storage cylinders are proprietary bought-in items from established manufacturers.

WHAT NEOMETRIX BUILDS

The fabricated trolley, the operation and connection panels, the cylinder safety enclosure, the 350 bar stainless piping, and the integration - followed by the testing, documentation and operator training that make the unit real.

ENGAGEMENT

Send the cylinders to be charged, the daily duty and the site conditions to sales@neometrixgroup.com - compliance matrix within two working days.

DEFENCE PROGRAMMES DESK

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