

Dry & Oil-Free Compressed Air System

CAPABILITY SHEET · ISO 8573-1 CLASS 1.5.1 · SUPPLIED - TWO SYSTEMS (2023)

THE PRODUCT

WHAT	Integrated oil-free compressed air package: scroll compressor with built-in refrigerated dryer, 1000 L vertical SS304 receiver, three-stage filter bank (1 / 0.1 / 0.01 micron), and 25 mm interconnecting pipework - site installation & commissioning in scope.
STATUS	Supplied - two systems against Government e-Marketplace contracts (2023) for a Government of India advanced-research centre; the second system was ordered within four months of the first.
AIR QUALITY	ISO 8573-1:2010 Class 1.5.1 at the outlet terminal: particles <10/m3 (1-5 micron), <400/m3 (0.5-1 micron), <20,000/m3 (0.1-0.5 micron); pressure dew point <=5 deg C - tighter than the class's own 7 deg C; total oil <0.01 mg/m3.

REFERENCE CONFIGURATION

COMPRESSOR	Oil-free scroll element, FAD >=48 cfm at 8 bar at 100% duty; refrigerated dryer integrated in one floor-standing acoustic enclosure <=2.0 x 1.0 x 2.0 m; dry 5-micron suction filter; Indian 3-phase mains; <=20 kW; <70 dBA at 1 m; IP55 motor.
RECEIVER	Vertical 1000 L SS304, wall >=5 mm, WP 8 bar, design >=12 kg/cm2, hydro >=18 kg/cm2; IS 2825-1969 Class III, argon-assisted TIG; ASME Sec VIII safety valve, 0-20 bar gauge, 1 in BSP isolation valves, drain, legs and lifting lugs; OD <=1000 mm, height <=2000 mm.
FILTER BANK	Stand-mounted 1 micron filter-regulator -> 0.1 micron -> 0.01 micron -> manual outlet valve; >=50 scfm (1415 nlpm); 1 in BSP; standard catalogue products with locally available consumables; one spare element per stage in scope.
PIPEWORK	Interconnects >=25 mm bore, rated >=10 bar, clean-room-compatible catalogue systems (Al / SS / engineering polymer) with isolation valves between units.

TESTING & CERTIFICATION

BEFORE DISPATCH	Impurity test certificate against Class 1.5.1 at the outlet terminal, receiver hydro-test certificate (IS 2825-1969) and material test certificate (IS 6911-1992) - dispatch only after the buyer's engineers clear the certificates.
AT SITE	Leak inspection of all joints before and after installation; surface-protection verification; qualification of delivery pressure, free air delivery and power consumption during commissioning; buyer right to repeat the receiver hydro test.
WARRANTY	One year from completion of installation, commissioning and final acceptance at the consignee site.

SUPPORT & ENGAGEMENT

VARIANTS	Higher FADs and pressures, duplex sets with standby changeover, larger or multiple receivers, desiccant dryers for sub-zero dew points, other ISO 8573-1 class targets, receiver-only and filter-bank-only scopes.
SUPPORT	Spare filter elements per stage handed over at commissioning; consumables specified as locally purchasable catalogue items; spares and maintenance support from Noida.
ENGAGEMENT	Send your tender specification to sales@neometrixgroup.com - clause-by-clause compliance matrix and budgetary quotation within two working days.

DEFENCE PROGRAMMES DESK

sales@neometrixgroup.com · +91 7777 876 876 · neometrixgroup.com
Neometrix Defence Limited · E-148, Sector 63, Noida, Uttar Pradesh, India

Reference configuration reflects systems supplied against 2023 Government e-Marketplace contracts. All parameters re-scoped against the customer's specification at proposal stage.