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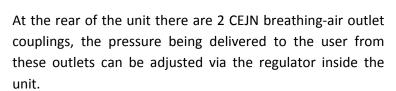
SAT450 Safe-Air Trolley inc. CO & CO₂ Reduction System



The SAT450 is the ideal breathing-air purification system for those working in areas where there is a risk of higher than normal levels of carbon monoxide or carbon dioxide being ingested into the compressed-air system.

The unit incorporates a compressed-air filtration and drying system which delivers a smooth, controlled, uninterrupted supply of breathing quality air far exceeding the requirements of BS EN12021. For heavier duty applications the SAT450HD is available which also includes an additional 1 micron pre-filter.

Built to last the SAT450 is mounted within a tough polyurethane housing. With virtually no ferrous components the unit incorporates stainless and aluminium components making it suitable to be used in tough and arduous environments. The stainless steel wheeled frame allows the unit to be easily manoeuvred into position





The compressed-air supply is connected to the input connection on the side of the Safe-Air Trolley, air is then passed through a 1 micron pre-filter (SAT450HD only) and a 0.01 micron combined oil mist coalescing and carbon filter further reducing oil carryover to less than 0.003ppm. The air is then delivered to a pneumatically controlled pressure swing dryer incorporating a desiccant media capable of both drying the air to a pressure dewpoint of -40°C and significantly reducing the levels of carbon dioxide. Purge air from this system is exhausted from the cabinet via silencers at the rear of the unit. The dried air is now passed through a





hopcalite catalyst filter which oxidises excess levels of carbon monoxide back to safe levels of carbon dioxide.

The system provides a safe reliable source of breathing quality air in excess of all international breathing standards with the additional confidence of protection against surplus levels of carbon monoxide and carbon dioxide.

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SAT450 Technical Data

Minimum operating Pressure	Maximum Operating Pressure	Minimum Inlet Temperature	Maximum Recommended Inlet Temperature	Inlet Flowrate	Maximum Flowrate	Weight (Kg)	Length (mm)	Width (mm)	Height (mm)
4 barg	16 barg	1.5°C	30°C	590 lpm	450 lpm at 7 barg	54	600	560	1040

International Breathing-Air Standards

Component	UK	Europe	Canada	Australia	
Component	BS EN12021:1999	EN12021:1999	CSA Z180.1-00	AS/NZS 1715:1994	
Nitrogen	Not Specified	Not Specified	Not Specified	Not Specified	
Oxygen Level	21%(<u>+</u> 1)	21%(<u>+</u> 1)	20-22%	19.5%-22%	
Carbon Monoxide	5ppm	15ppm	5ppm	10ppm	
Carbon Dioxide	500ppm	500ppm	500ppm	800ppm	
Pressure Dewpoint	5°C (41°F) below lowest	5°C (41°F) below lowest	5°C (41°F) below lowest	100mg/m ³	
Pressure Dewpoint	ambient temperature	ambient temperature	ambient temperature		
Oil/Lubricant	0.5mg/m ³	0.5mg/m ³	1mg/m ³	1mg/m ³	
Sulphur Dioxide	Not Specified	Not Specified	Not Specified	Not Specified	
Nitrogen Oxides	Not Specified	Not Specified	Not Specified	Not Specified	
Odours	Free	Free	Free	Free	
Methane	Not Specified	Not Specified	5ppm	Not Specified	
Volatile non-methane	Not Specified	Not Specified	Ennm	Not Specified	
hydrocrabons	Not Specified	Not Specified	5ppm		
Volatile halongenated	Not Specified	Not Specified	5ppm	Not Specified	
hydrocarbons	140t Specified	140t Specified	Эрріп		

Other Breathing-Air Products available from Factair



F4000/F4001 Safe-Air Testers



Safe-Air Cabinets



Breathing-Air Hoses



A range of Mobile Breathing-Air Compressors and Trailair Cylinder Sets are also available.