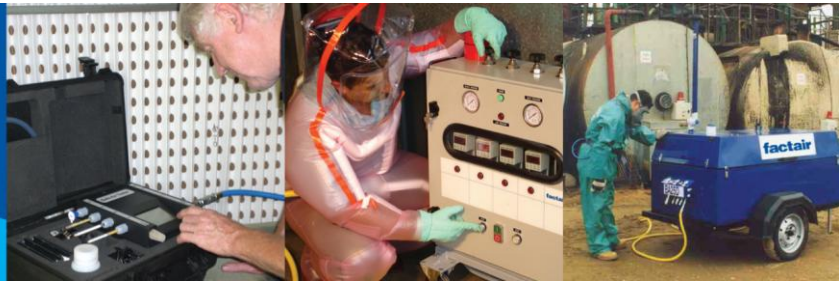


factair

Containerised Breathing Air System for UKAEA Dounreay MkII



Factair is a specialist in the design and manufacture of containerised breathing-air facilities. These units comprise run/standby low pressure breathing-air compressors with breathing-air filtration (including carbon monoxide and carbon dioxide suppression) and an integrated fail safe emergency HP reserve and alarm system.

An integrated high pressure compressor automatically refills the emergency reserve system as required. This latest unit had an updated output of 4,410 l/min and a new touch screen control panel interface.



Below: Control panel providing real-time information on the delivery flow and pressure.

Breathing air flow is displayed and monitoring prevents system shut down while it is supporting life.



Technical Data

COMPRESSORS LP	-	2 off HPC type BSD75 rotary screw, air compressors
COMPRESSOR HP	-	Bauer Mariner 320 air-cooled, breathing-air charging compressor
AFTERCOOLER	-	Outlet temperature within 5°C of ambient
FILTRATION	-	Purifies air to breathing quality conforming to BS EN 12021
CONTAINER	-	8' (w) x 8' (h) x 20' (l), thermally-lined and internally-clad steel ISO type container with double plant access doors and side access personnel door
NOISE LEVEL	-	70dBA @ 1 metre
STANDARD FEATURES	-	Electronic touch screen control panel · Hours run meter · Mass flow meter · Fully automatic 'fail-safe' reserve from high-pressure cylinders with start up protection · System shut-down activated by either high temperature compressor oil · GSM connection enables remote monitoring of condition and planning maintenance.
GAUGES SHOW	-	HP cylinder pressure · Differential pressure · Compressor, System pressure · Regulated pressure – Reserve supply pressure. Output air flow
LAMPS SHOW	-	Alarm Type – Compressor Fault, HP alarm, LP alarm
AUDIBLE ALARMS	-	Primary air supply failure · Reserve pressure low
VISUAL INDICATOR	-	Shows changeover to HP reserves
OUTLETS	-	Central connection for mains incoming supply, breathing-air outlet supply and the supervisor's remote status indication panel
WASTES	-	All discharges from filter autodrain are gathered into an oil water separator, oil is collected in a container for proper disposal, water is discharged to drain.
QUALITY	-	The BA container is manufactured in accordance with our Quality Assurance Procedures approved to ISO9001/EN29001

Compressors Low pressure	Compressor High pressure	FREE AIR DELD. at 8 BAR / 116 psi		WORKING PRESSURE		USEABLE HP RESERVE CAPACITY LITRES	DIMENSIONS (approx)			
		l/min	cfm	Bar	psi		LENGTH mm	WIDTH mm	HEIGHT mm	WEIGHT Kg
2 off 37 kW 415V 3ph 50Hz	7.5kW 415V 3ph 50Hz	4,410	155	8	116	115,000 to 150,000	6096	2438	2438	7500