

# factair

## Military Products & Services

TRI-SERVICE CAPABILITY

### Overview

Having supplied a diverse portfolio of equipment to the armed forces since the mid 80s Factair is able to design and manufacture a comprehensive range of military products. With proven technical experience in compressed air, pneumatics and electrics, Factair can offer a range of bespoke systems.

First established in 1976 and based in Ipswich, Suffolk, Factair operates from a 1300m<sup>2</sup> factory and has held quality assurance accreditation (ISO9001), since 1989. Having developed extensive experience in delivering against MoD requirements, Factair is able to provide a comprehensive range of technical support documentation including safety and environmental cases, risk management plans and army equipment support publications/air publications.

Factair's team of Design Engineers, utilising the latest 3D modelling software, has completed many projects for the MoD, these include:- compact compressors for field maintenance, road towable and specialised packages, containerised systems, breathing-air test instruments and mobile generators.

MILITARY PRODUCTS  
& SERVICES



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## General Purpose Air Compressor

TYPE CODE: KDP

NATO STOCK NUMBER: 4F/4310-99-341-7014

Designed to provide compressed-air for a wide range of applications in ambient temperatures ranging from -25° to +50°C, these units have been supplied to the Royal Air Force for both UK and overseas operations.

The GPAC, utilises a diesel driven rotary screw compressor to produce 4.15m<sup>3</sup>/min at 8.5 bar and at a discharge temperature within 7°C of the ambient conditions. To provide protection against the ingress of sand the ventilation inlet is fitted with a maintenance free sand trap louvre. For continuous operations the GPAC can be refilled whilst running via an external fuel fill access panel. The chassis includes fork lift pockets and tie down points for air transportation. The unit also features an oil tight chassis to prevent any external contamination from spilt internal fluids.

To cater for the wide variety of possible applications the GPAC includes 6 outlets with options for both lubricated and non-lubricated air and 6.4 or 8.5 bar supply pressure.



## Field Maintenance Compressors

### FLF16D

Designed to meet the single fuel policy, this diesel driven field maintenance compressor is the replacement to the in-service Factair FLF16P (NSN 4310-99-840-0171). Mounted within an extremely compact frame this unit is intended to supply a variety of air tools up to ½" impact wrenches for field applications. Powered by a Lombardini 15LD350 diesel engine, the twin cylinder compressor produces 450 lpm at 7 bar.

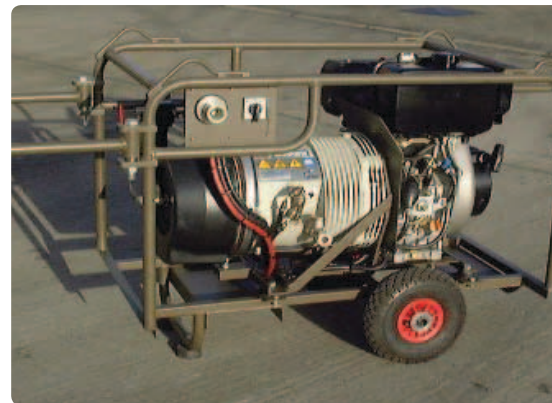
The FLF16D features 4 innovative 3-way handles, which allows easy lifting and compact stowage of the compressor.



### WARRIOR

This unit was originally developed for field maintenance of the Warrior AFV, but is also suitable for a range of other applications powering air tools up to ¾" impact wrenches. This unit has a Yanmar diesel engine driving a Hydrovane rotary compressor, which delivers a smooth pulse free output of air at 623 l/min at 7 bar.

This model is the replacement to its 'in service' petrol driven predecessor (NSN 4310-99-096-3713) and includes fork lift channels and multi position carry handles for ease of transporting, as well as 24V slave socket for starting in cold climates.



## Containerised Equipment

PORTABLE TYRE REPAIR FACILITIES

NATO STOCK NUMBER: 4910-99-908-5659

Developed to provide an independent tyre repair facility in theatre this self contained facility can change tyres ranging from a TUL up to and including DROPS IMMLC, and balance wheels up to 17" wheel diameter.

The PTRF is based upon a 20' ISO container and is capable of being transported on a DROPS DP Flatrack or any other service vehicle equipped with ISO twist locks.

Each PTRF is fitted with its own electrical generator and compressor capable of running 2 impact wrenches and inflating tyres to 150psi. For ease of handling an electric hoist is fitted which can lift heavy wheels from outside the container and transport them directly to the tyre changer.



### BREATHING-AIR SYSTEMS

To provide a reliable breathing-air source for an RAF maintenance facility, where operatives needed to access wing fuel tanks, Factair supplied a containerised BA system.

This system, as well as several which have been supplied for industrial and nuclear sites, produces high quality filtered breathing-air from rotary screw compressors operating in a run and standby configuration.

Should there be a failure in the breathing-air supply, the unit incorporates a sophisticated automated back up system with local and remote audible and visual alarms. In this event air would automatically continue to be supplied from a high-pressure reserve. As part of its control system the unit includes a modem connection to allow remote interrogation.



## Bespoke Systems

CHALLENGER 2 POWER TOOLS PACK

NATO STOCK NUMBER: 4910-99-908-5659

To carry out maintenance and repair to Challenger 2 tank requires the use of some extremely powerful specialist air tools. To supply the compressed-air to power these in field locations, Factair designed a high capacity air compressor as an integral part of a NATO post pallet, together with a tool vault built into a second pallet, which can be shipped into the field by means of standard logistics, enabling this vital task to be carried out.

Fitting a compressor capable of 3.0 m<sup>3</sup>/min free air delivered at 7 bar, with the restrictions of a NATO post pallet required an innovative design from Factair.



BREATHING-AIR TEST INSTRUMENTS

NATO STOCK NUMBER: 1680-99-598-6300

Based on Factair's leading commercial 'off the shelf' F3000 breathing-air quality instrument, this unit enables users to comply with the requirements of COSHH L5 and BS EN 12021:1999.

The F3000 establishes levels of carbon monoxide, carbon dioxide, water, oil and oxygen, airflow, supply pressure, airline and ambient temperature during an automatic test procedure.

Supplied in a rugged weatherproof case, the instrument can test systems up to 10 bar as standard or with the addition of the F3002 high pressure regulator, test cylinders and charging compressors.



GENERAL PURPOSE COMBAT  
POWER TOOL KIT

NATO STOCK NUMBER: 5180-99-440-1108

This diesel driven 4.5kVA generator has been designed specifically for the Royal Engineers and supplied with a complete range of Makita tools and ancillaries including:- drills, grinders, saw, breaker, work bench, pump and lighting set. In addition the GPCPTK is also supplied with a power smoothing unit to provide a stabilised power supply for sensitive electronic devices.

Each tool is provided with a comprehensive range of drill and auger bits, supplied in laser cut foam trays and stored in sturdy transport cases. All of the equipment within the General Purpose Combat Power Tool Kit is NATO codified and supported by both Army Equipment Support Publications and Safety Cases.

### SERVICE & REPAIR

With extensive experience across a range of engineering disciplines Factair is able to provide service and repair for not only its own equipment already in service but other manufacturers' products. Recent service and repair projects include the refurbishment of vehicle mounted rotary vane compressors and the structural upgrade of mobile de-humidifiers.

