

> KA2020

PORTABLE NITROGEN TOOL KIT



DESCRIPTION

The Nitrogen Portable Charging Unit (PCU) or Walk-about Kit is a man portable source of compressed nitrogen gas designed to meet the requirements for portable aircraft gaseous ground support.

Typical applications include topping-up the pressure in aircraft tyres, gas suspension struts and oleo systems. The unit comes complete with a 3m charging hose, equipped with circumferential quick connectors for ease of use.

The portable walk-about kit is a very useful addition to an operator or maintainer's gaseous ground support equipment and itself may be recharged with nitrogen from a bottle cart/trolley, air separation cart or hangar/workshop supply. Once charged the unit may be deployed where other gaseous ground support equipment is not available.



KEY FEATURES

Man portable. Light weight. Compact. Robust aluminium case. Supply of high-pressure nitrogen. 1800L nitrogen at STP. 6.7L water carbon fibre composite cylinder. Integral charging hose. Integral filter. Non-combustable materials. All loose items securely retained. Certified to TPED. Tyre charging adaptor. Quick connectors. Easy maintenance. Choice of case colour. Choice of number and pressure range of regulators. Integral relief valves. Integral pressure gauges.

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KEY FEATURES

Benefits :

Multiple handles to be easily carried by one or two people.
Self-contained, safe controlled supply of high-pressure nitrogen gas where it's needed. Up to 60% reduction in aircraft downtime and up to 30% increase in aircraft turnaround time achieved through the readily available nitrogen supply. Various outlet pressure ranges and fittings available. Designed to be FOD free. Removable filter for ease of maintenance. Removable panel for ease of maintenance. Configurable design means a wide range of charging pressures can be accommodated in one unit. Charging adaptors supplied with built-in over-pressure protection, to safeguard sensitive applications. Charging panel may be used with integral cylinder or with an independent nitrogen supply. Certified to fly. Full military documentation available.

Specification :

- Inlet Connection : G1/4" or UK MOD
- Outlet Connection : quick connect
- Maximum Working Pressure - bar : 0 - 350
- Maximum Working Pressure - psig : 0 - 5,075
- Outlet Pressure Range - bar : 0 - 207
- Outlet Pressure Range - psi : 0 - 3,000
- Stage One Pressure Range - bar - fluid : 0 - 207
- Stage One Pressure Range - psi - fluid : 0 - 3,000
- Stage Two Pressure Range - bar - fluid : 0 - 35
- Stage Two Pressure Range - psi - fluid : 0 - 500
- Relief Valve Set pressure range bar : 0 - 385
- Relief Valve Set pressure range psi : 0 - 5,600
- Relief Valve Reseat Pressure % : 10
- Relief Valve Set Pressure Variation % : 2
- Nominal bore - mm : 6
- Filtration level - Micron : 20
- Inlet/Outlet Pressure variation [%] : 5
- Medium : nitrogen

Installation dimensions

- Height (mm): 220
- Depth (mm): 373
- Width (mm): 668
- Length of manifold (mm): 668
- Length between ports (mm): tba
- Weight: 21.5 kg

Packaging Dimensions

- Packaging Height (mm): 215



APPLICABILITY

H160

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