

The MAV-1 Fuel Tank Ventilation Kit

Ground Support Equipment for Aircraft Fuel Systems Inspection and Maintenance Operations

NSN – 1560-01-492-8255



Increases Readiness While Reducing Deployment Footprint

The MAV Systems adapt to and operate on all sizes of Aircraft and Helicopters
Ideal for Rapid Deployment Expeditionary Forces as well as fixed base operations
Less than half the size and much lighter than the current inventoried Fuel Tank Servicing Cart Systems

Reduces Mobility Response Time

Designed for immediate transport
Loads faster and takes up less space for deployment
The MAV Series features a stackable secure container design

Lower Cost and Increased Reliability

Qualifies as a Commercial off the shelf item (COTS)
The MAV Systems are less than half the cost than current inventoried cart systems
Includes a more durable, effective ventilator that is virtually maintenance free
Less maintenance required. Reduces labor and support costs

Increases Deployed Combat Capability and Effectiveness

The MAV Systems can be easily transported and operated within forward positioned staging areas
Operates effectively and reliably with existing Portable Air Compressors or electrical generators

MAV ventilation kit Features

- A very portable system to ventilate one or multiple Aircraft Fuel Tanks at once
- Achieves an unparalleled level of safety and efficiency
- Functions with portable or stationary compressed air supply
- Proven through documented testing to drastically reduce the time required to render fuel tanks safe for inspection or repair
- Lightweight and very portable, sets up quick and easy
- Impact and Crush resistant reusable container with built-in equipment storage dividers
- Off the shelf, commercially available
- Most system components have assigned National Stock Numbers
- Designed specifically for Aircraft Tank Ventilation
- Capability to purge and exhaust Fuel Vapors completely away from Aircraft Location
- Produces a safer working environment
- Entire System designed to dissipate and relax Static Electrical Charges
- Low Noise Operating Level
- Compressed Air Requirements:
 - 50 SCFM at 80 PSIG or 25 L/sec at 5.5 BarG

MAV-1

Mobile Aircraft Fuel Tank Ventilating System

Contents:

- 1 x Pneumatic Driven Air Mover with attached 25' (7,5m) Static Bonding Cable Assembly
Part Number APV-2 – NSN 4140-01-105-6326
- 4 x Conductive Ducting 8" x 15' (203mm x 4,6m) with built-in Storage Device and J-Slot Quick Disconnects Ends
Part Number NFRA-8X – NSN 4720-01-324-0233
- 1 x Inlet Compressed Air Hose Assembly 100 ft.(30m) with attached Quick Disconnect Fittings
Part Number ED1313B -100 – NSN 4240-01-51-8160.
- 1 x Intake Air Filter Adapter for Air Mover
Part Number AP-3
- 1 x Multiple Port Air Duct Adapter
Part Number NF-808 – NSN 4730-01-442-1804
- 4 x Conductive Ducting 4" x 15' (101mm x 4,6m) with J-Slot Quick Disconnect Ends
Part Number NFRA-4X – NSN 4720-01-431-9628
- 1 x Reusable Container (Part Number RAC-2).

NOTE: Designed for EU/CE Compliance. Air Mover and Conductive Duct independently reviewed in conformance with EN1127-1: 1997 PROTOCOL. Adequate for use in a Category 1 environment.



APV – 2



Pneumatic Driven Air Ventilator.
Includes 8" (203mm) Diameter J-Slot Duct Connector Rings on both intake and exhaust port. 25 ft.(7,5m) Attached Static Bonding Cable.
NSN 4140-01-105-6326

AP-3



Intake Air Filter Adapter.
Connects to Intake Air Port on Ventilator to filter ambient air flow before its circulated into tank.
NSN 1660-01-492-7768

NFRA-8X



8" x 15' (203mm x 4,6m) Static Conductive Air Duct. Includes J-Slot Duct Connector ring and built in self storage device.
NSN 4720-01-324-0233

AP-208



Fuel Tank Access Duct Adapter.
Connects to 8" (203mm) diameter ducting. Designed to increase air flow circulation within fuel tanks. This flexible adapter can be inserted through most under wing fuel tank access openings. Provides a method of securing air duct to aircraft and prevents the air duct from falling out of tank access openings.

NF-808



8" x 4" (203mm x 101mm) Air Duct Reducer.
Connects to the 8" (203mm) diameter Duct and features two 4" (101mm) Air Duct Rings. One vinyl 4" (101mm) Air Duct Cap provides the capacity to use one or both 4" (101mm) Duct Ports without losing air flow efficiency.
NSN 4730-01-442-1804

NF-4X



4" x 15' (101mm x 4,6m) Static Conductive Air Duct. Includes J- Slot

File Name: Rhine Air MAV-1 Kit 1112

Version Number: Version 1 Revision Date: 23 November 2012

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Duct Connect Rings.

NSN 4720-01-431-9628

ED1313B-100



Inlet Compressed Air Hose Assembly.

A 100-ft. (30m) Compressed Air Hose Assembly that features attached quick disconnect air fittings. Sized to supply proper air flow and pressure to operate pneumatic driven ventilator.

NSN 4240-01-251-8160