

# ManPAC 2R4 - Soldier Cooling Unit

The ManPAC 2R4 is a rugged miniaturised DC powered air cooling unit for personnel operating in extreme climates. The unit delivers controlled cooled air to a body worn layer, and relieves heat stress and fatigue resulting in greater operational effectiveness, and ultimately, increased survival.

Specification	Details
Weight	9.3 kg
Dimensions	275mm x 352mm x 200mm
Operational Temperature	-25 to 52°C
Material	Stainless/graphite loaded nylon
Power Usage	DC - 9.8A @ 24v / 19.6A @ 12v
Colour	Available in Desert Grey / Black / Grey / Green
Power	Hard wired or connects to standard 24v outlet vehicle connection
Designed and manufactured in the United Kingdom. Suitable for use in any operational environment	
Heat and cool version, larger capacities also available	

ManPAC 2R4 works with AirStream C1M. AirStream C1M is a soft contoured layer that can be added to standard ballistic vests. It can be integrated at manufacture or fitted in theatre to existing garments, and it adds less than 260g to the soldier's kit. The effect of maintaining core temperature inside the critical range greatly reduces error and loss in combat. ManPAC 2R4 regulates the temperature of the air supplied, to allow the body thermo-regulation to work normally. ManPAC 2R4 is also available for heating in cold climates.



## Applications:

- Open vehicles
- Exposed observation locations
- Transport of u/s vehicles to repair depot
- Vehicles with inadequate/no installed cooling
- Field medical facilities
- Bomb disposal & field technical repair facilities



# INNOVATIVE MILITARY HVAC

## MISSION

“Our purpose is to redefine tactical HVAC systems through careful design, enhanced integration, and application of proven efficient technologies.”

We specialise in integration of the disciplines necessary to resolve today’s challenges. Working within structural engineering constraints, refrigeration, thermodynamics, acoustics, electrical, controls and physiological issues are taken account of to produce rugged and powerful systems that keep returning efficient results over their lifetime.



Stream Defence Systems – “*delivered to theatre fit for action*”

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