

Aircraft Engine Pre-Heating Trolley

CAPABILITY SHEET · INDIRECT-FIRED HEAT · DUCTED ZONES · ENGINEERED TO ORDER

THE ONE IDEA

PRINCIPLE	An engine is not afraid of cold air. It is afraid of its own oil, which thickens enough in a deep cold soak to starve bearings and load the starter before the engine has even properly turned.
WHY A SOAK	A short blast of hot air warms the surface. It takes real time at temperature to move heat into the oil and the metal around it - the soak, not the blast, is what makes a start safe.

THE SYSTEM

INDIRECT HEAT	The heater's combustion side never touches the delivered air; a heat exchanger keeps flame and combustion gas out of the airstream that reaches the aircraft.
DUCTED ZONES	The engine bay is the minimum duty. Where fitted, a cockpit or an avionics bay is ducted separately, because each reaches a safe temperature on its own schedule.
THE CEILING	A thermostatic control limits delivery air temperature, because seals, composites and avionics can be damaged by too much heat as surely as an engine is damaged by too little.

CONFIGURATIONS

SINGLE-ZONE	Engine only - the minimum configuration for a straightforward cold start.
DUAL-ZONE	Engine and cockpit, for crew comfort and instruments that need their own warm-up.
MULTI-POINT	Engine, cockpit and avionics bay, for equipment with its own low-temperature limits.

STANDARDS & SCOPE

STANDARDS	SAE ARP1247, the public recommended-practice standard for the general design of aircraft ground support equipment, is the reference this class of trolley is built against.
SCOPE BOUNDARY	This is the pre-heating trolley itself. It is not a starter and not an electrical supply - it only heats.
STATUS	Neometrix engineers aircraft engine pre-heating trolleys to order, and no delivered engine pre-heating trolley is claimed.

DEFENCE PROGRAMMES DESK

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Figures describe the equipment class Neometrix engineers to order and are not a quotation. Aircraft type, zones required and temperature ceiling are established against the customer's airframe and duty at design review. ISO 9001 / ISO 14001. © Neometrix Defence Limited.