

June 2004

## **CoolSpool® Start Cart starts bigger aircraft engines at remote sites**

Regional and commuter jet aircraft can be started at remote sites more conveniently, safely and cost-effectively than ever before with the CoolSpool® Start Cart, the most powerful self-contained engine starter and ground power unit yet offered by Powervamp Ltd, the leading UK-based supplier in this field.

Powervamp modular ground power systems have long been able to start helicopters and executive-style turboprop and turboprop jet aircraft, but this new unit introduces the same benefits to much bigger aircraft, opening up new cost-saving opportunities to mainstream feeder airlines using equipment with heavy current-drawing turbo-prop, shaft turbine or free turbine engines.

The CoolSpool® is therefore ideal for operators running "thin commuter" routes with aircraft such as the Saab 330 and 28-seat Metroliner, freeing them from both the cost of and need to rely on traditional starting systems such as a diesel-driven ground power unit or a 3-phase mains converter.

The CoolSpool® 130 and 260 take their power from their own ultra-high discharge sealed batteries, which deliver a standing voltage of 28.5 volts, and can be continuously connected to a conventional single-phase mains lead. When connected in this way, the integral power supply will be continually topping up the integral batteries.

These compact, easily manoeuvrable and competitively-priced units free operators from reliance on locally hired GPU systems, which can be highly inconvenient and expensive. By positioning a CoolSpool® Start Cart at each regularly-visited air field, operators can become cost-effectively self-contained in terms of engine starting and avionics power. The unit can be quickly disassembled for air portability, for instance allowing it to be flown to different locations as new routes are opened up.

The new Start Cart models come at the top of Powervamp's recently-launched CoolSpool® range, whose name reflects the fact that it provides a cooler as well as faster "spool-up" (engine start) than other established systems of its kind.

CoolSpool® 130 employs high-performance 130 amp/hr sealed gas recombining batteries with a standing 28.5 voltage rating and an integral 40 amps continuous power supply capable of delivering up to 12 per cent more power than typical 25.4 volt systems used in the past. CoolSpool® 260 effectively doubles the output to 260 amp/hr and 80 amps continuous maximum output.

This approach produces faster spool-up times and much cooler starts than on-board batteries or other alternative systems, helping to reduce cost and prolong engine life.

Coupled with this massive battery power is Powervamp's unique, modular switch-mode power supply system, providing rapid recharge capability and ability to deliver continuous 28 volt DC ground power at 40 amps for running avionics systems, aircraft lights and similar equipment.

The CoolSpool® Start Cart comes complete with a compact, manoeuvrable trolley which encloses all the main components in a protective steel case. Isolator switch, digital volt meter and connector sockets are accessed through convenient external ports. The cart comes complete with foam fire extinguisher, heavy-duty 3-pin NATO plug with 4 metres of double-insulated DC output cable, and a spare wheel.

Like all Powervamp systems, the CoolSpool® is modular, which means it can be shipped out worldwide for local assembly; so remoteness is no bar to operators wanting to enjoy its benefits. The sealed batteries themselves are certified for air transport, so the whole unit can be transported safely in the hold of virtually any aircraft.

For operators seeking even more power from this type of system, a range of uprating options is available, raising the maximum continuous DC output from the CoolSpool® 260 to a possible 360 amps at 28 volts DC. There is also an option to use a three-phase mains power supply, boosting the continuous output to 400 to 450 amps of continuous DC power. For operators who prefer not to buy outright, a range of leasing terms is available directly through Powervamp Ltd.

CoolSpool 130 and 260 Start Carts have already been ordered by several aircraft operators, including Middle East and Far East air forces and an African commuter airline, Precision Air of Tanzania.

*ends*

#### **Note to editors**

Powervamp Ltd has been supplying ground power systems to the aviation industry since the mid-1990s, and is a recognised world leader in the market. A large number of Powervamp-built GPUs and power supply units are in use with both military and civilian aircraft and airport operators worldwide.

The Powervamp all-weather aviation range of power packs is notable for its high power, modular design, rugged construction, ease of use and easy servicing. It is suitable for starting anything from the smallest single-engined helicopter or light aircraft to much larger turboprop and turbofan engines on corporate jets. Self-contained generators are also available.

Powervamp also supplies a range of related equipment including wiring harnesses, connectors, trolleys for handling multiple units, and aircraft landing lights.

*For further information, please contact:*

*Richard Roller*

*Powervamp Ltd*

*22 Bridgwater Court*

*Oldmixon Crescent*

*Weston-Super-Mare*

*BS24 9AY*

*Tel: +44 (0)1934 643000*

*Fax: +44 (0)1934 642800*

*Email: [info@powervamp.co.uk](mailto:info@powervamp.co.uk)*