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电子设备吊舱冲压空气驱动的环境控制系统研制

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THE DEVELOPMENT OF A RAM AIR DRIVEN ENVIRONMENTAL CONTROL SYSTEM FOR AVIONICS PODS

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摘要

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**摘要** 介绍了一种新型的用冲压空气驱动的逆升压回冷式空气循环的环控系统, 阐述了该系统的设计思想和技术关键, 分析了各种因素对其制冷性能的影响。分析和实验表明, 本系统是适用于电子设备吊舱的一种经济、高效的环控系统

**关键词:** 飞机—吊舱 环境控制 空气循环

**Abstract:** A new ram air driven environmental control system(ECS) is introduced, which operates on a reverse bootstrap air cycle and with a regenerative heat exchanger. The resulting ECS design concepts and technique keys are described. The effects of various factors on ECS refrigeration performance are also studied. The results of thermodynamic calculation and experimental research indicate that this system is an economical and highly efficient ECS for avionics pods.

**Keywords:** air-cr aft-pod environmental control air-cycling

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