



航空学报 » 1999, Vol. 20 » Issue (S1) : 8-10 DOI:

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旅客机环境控制系统的发展

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EVOLUTION OF THE ENVIRONMENTAL CONTROL SYSTEMS FOR COMMERCIAL AIRCRAFT

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摘要

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摘要 回顾了飞机环境控制系统在民用旅客机应用中的技术发展过程, 介绍了现役各种民用飞机的不同技术方案的环境控制系统特点, 比较讨论了3种不同中型民用旅客机的环境控制系统方案, 展望了民用飞机的环境控制系统的发展趋势。

关键词: 民用旅客机 环境控制系统 空气调节系统

Abstract: The history of commercial aircraft environmental control systems (ECS) is reviewed. This paper notes many of the significant developments in commercial aircraft ECS functional systems, such as bleed system, air cycle refrigeration system, temperature system and cabin pressure regulating system. The various system types are comprised. Finally some possible directions that would be taken in future design are briefly discussed.

Keywords: commercial aircraft environmental control systems air conditioning

Received 1998-09-07; published 1999-11-25

引用本文:

陈元先. 旅客机环境控制系统的发展[J]. 航空学报, 1999, 20(S1): 8-10.

CHEN Yuan-xian. EVOLUTION OF THE ENVIRONMENTAL CONTROL SYSTEMS FOR COMMERCIAL AIRCRAFT[J]. Acta Aeronautica et Astronautica Sinica, 1999, 20(S1): 8-10.

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