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示踪气体法求客舱通风量和空气龄的方法

庄达民, 袁修干

北京航空航天大学空调制冷研究所, 北京 100083

SOLUTION OF VENTILATION FLOW AND AGE OF AIR IN CABIN BY USING TRACER GAS METHOD

ZHUANG Da-min, YUAN Xiu-gan

Institute of Air Conditioning and Refrigerating Technique, Beijing Unive. of Aero. and Astro., Beijing 10083, China

摘要

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摘要 传统的用浓度变化求通风量的公式是建立在单室通风模型上的。通过建立示踪气体质量平衡方程式可得到用单种示踪气体和多种示踪气体浓度变化求客舱(多室)通风量和渗风量的方法。为了提高客舱内空气品质,引入了空气龄的概念并给出了由客舱内典型点的示踪气体的浓度求空气龄及通风效率的方法。

关键词: 示踪气体法 通风量 空气龄 多室通风

Abstract: Traditional solution of ventilation rates with the concentration change is based on a one room ventilation model. From the equation of mass balance of tracer gas, the ventilation rates of the cabin(multi room) can be solved by using single tracer gas measurement or multi tracer gas measurement. For improving the air quality, the concepts of age of air are introduced and the solutions of age of air and ventilation efficiency are obtained by using tracer gas concentration of typical points of the cabin.

Keywords: tracer gas method ventilation rates age of air multizone infiltration

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