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文章名称: 内周叶片角对空调用贯流风机性能及噪声的影响 ----- 张师帅 等

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:: 文章简介 ::

摘要: 利用CFD软件FLUENT6.2和自行研发的“空调用贯流风机参数化建模软件”,分别对内周叶片角为80°、83°、85°、87°、90° 5种情况下的贯流风机进行实体建模和网格划分,并对内流场和气动噪声进行数值模拟,研究内周叶片角变化对贯流风机流量和噪声的影响,优化设计参数,提高风机性能。关键词: 贯流风机; 内周叶片角; CFD 中图分类号: TH43 文献标识码: B 文章编号: 1006-8155 (2008) 01-0016-04 Influence of Internal Blade Angle on Cross-flow Fan Performance and Noise for Air-conditioning Abstract: By the CFD software FLUENT 6.2 and the parameterized modeling program of cross-flow fan for air-conditioning, the entity modeling and grid division for cross-flow fan are carried out on the condition of different internal blade angles, such as 80°, 83°, 85°, 87° and 90°. Furthermore, the internal flow field and aeroacoustic noise are simulated, and the influence on capacity and noise from the change of internal blade angle is investigated the result is that design parameter is optimized and fan performance is improved. Key words: cross-flow fan; internal blade angle; CFD

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