

木材干燥的振荡流热管换热器设计与试验 Design and Experiment on Oscillation Heat-pipe Heat Exchanger of Wood Drying

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关键词: 木材 余热回收 高湿废气 换热器 自激振荡流热管

摘要: 设计了自激振荡流热管换热器余热回收系统并进行了试验, 考察了湿空气和操作参数对热回收效率的影响。试验结果表明, 自激振荡流热管换热器能够满足高湿废气余热回收的要求, 在给定的操作条件下, 系统的热回收效率高于18%。Heat recovery system of the self-excited oscillation heat pipe heat exchanger was designed and experimented. The effects of humid gas and operating parameters on heat recovery efficiency were studied. The results show that self-excited oscillation heat pipe heat exchanger can meet heat recovery requirements for the high humid exhaust gas. Under the given operating conditions, the system's heat recovery efficiency is higher than 18%.

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