

未定

高效低排放气液直接混合相变换热供热装置研制

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摘要 本文对传统的浸没燃烧技术进行了改进和创新,研制出新型的气-水直接接触相变换热方式的供热装置。通过理论分析和基础实验得到孔板形式直接接触相变换热的实验数据,可用于指导工程设计。通过样机测试和实际应用表明,此形式供热装置结构新颖、高效节能、大气排放指标极低、耗钢少、成本低廉,在低温供热场合,远优于常规供热锅炉的性能指标,具有良好的应用前景。

关键词 [传热性能](#) [浸没燃烧](#) [相变换热](#) [供热装置](#)

分类号

Research on the high efficient and low pollution heating equipment with gas-liquid direct mix and phase heat transfer

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Abstract The paper improved the traditional submerged combustion technology. Authors have developed a new type of heating equipment with gas-liquid direct mix and phase heat transfer. The experiment results of the direct mix and phase heat transfer type according to the theory analysis and base tests. It is useful for directing engineering design. The test and practice have proved that the heating equipment has some excellent qualities, such as the new structure, high efficiency and energy saving, very low pollution, price etc. The new type of heating equipment has good prospects because it has better performance than the traditional boiler at low temperature heating.

Key words [Heat transfer performance](#) [submerged combustion](#) [phase heat transfer](#) [heating equipment](#)

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