中析研究所
ZHONGXI RESEARCH INSTITUTE

TEST REPORT
测试报告



北京中科光析化工技术研究所
ZKGX Research Institute of Chemical Technology



测试报告

Test Report

报告编号（Report ID）：ZX220803-210101

样品名称（Sample Name）：NT-450 碳纳米管加热膜

委托单位（Client）：苏州汉纳材料科技有限公司

测试类型（Test Type）：委托测试

测试要求（Test Requirement）：按照委托方要求测试

分析结果（Test Result）：见后页

编制 倪雨 审核 崔媛媛 签发 齐银塑

声明：本检测结果仅对送检样品负责；评述仅供参考；不得部分复制本测试报告（复制无效）；请扫描全国报告防伪码查询真伪；如对检测结果有疑问，请致电咨询。

研究测试报告

（Research Test Report）

研究测试结果(Research Test Result)：

序号 NO.	测试项目 Test Item	测试结果 Test Result							
		1	2	3	4	5	6	7	平均
1	进水温度，℃	27.2	27.2	27.3	27.2	27.2	27.3	27.2	27.23
2	出水温度，℃	29.2	29.2	29.3	29.2	29.1	29.2	29.1	29.19
3	水流量，m^3/h	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
4	制热量，W	458	458	459	457	455	456	457	457.14
5	电压，V	220	220	220	220	220	220	220	220
6	电量消耗，W	462	460	460	461	460	462	461	460.86
7	电热转换效率，%	99.13	99.57	99.78	99.13	98.91	98.70	99.13	99.19

型号规格：0.1m×0.16m，$450W/m^2$

测试日期：2022.08.03

测试环境条件：23.5℃、68%RH

参考标准：GB 21519-2008，依据热泵能效等级测试的方法，检测系统进出水口温度差，计算制热量；记录加热膜运行工作时的电量消耗，通过测算制热量、电量消耗，计算电热转换效率。

结论：实测样品电热转换效率 99.19%

备注：本报告为见证报告

扫描查询报告真伪

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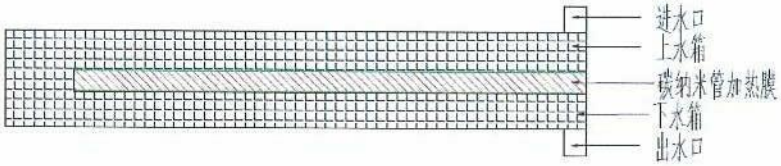
研究测试报告附件 (Research Test Report Attachment)：

测试示意图



剖视图

测试图片



测试设备

设备名称	型号规格	校准有效期至	校验结果
数据采集器	34970A	2023.3.11	合格
电量表	8904F2	2023.3.11	合格
流量计	AX3015	2023.3.15	合格

报告结束

(END)

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The data or conclusions derived from the test results are descriptions of the characteristics, components, performance or quality of the test samples based on the specific time, method and applicable standards, using different methods and standards, in different environmental conditions to detect samples may lead to different conclusions;This report is a research test report, which will refer to the principles of relevant standards, but may not be carried out according to the actual situation, and the results are for reference only.

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The premise that the service party accepts the sample for testing is that the client cannot use the test report as a basis for legal action;

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The test result only represents the sample sent for inspection, and shall not be responsible for the batch represented by the sample sent for inspection; The sample source information shall be provided by the client and the authenticity of the source information shall be guaranteed. The service party shall not be responsible for its authenticity; The present report is valid for 12 months.

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This report is only responsible for the test results of the tested samples, and the test data only reflect the evaluation of the samples and are only used for the purposes of scientific research, teaching or internal quality control, enterprise product development, etc. The test results issued are limited to the internal use of specific clients, and have no proof role for the society, can't be used for legal purposes such as safeguarding rights, disputes, judicature, etc.The service party shall not assume any economic and legal liability for the use of test data, direct or indirect losses caused by the use and all legal consequences.

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If the content of the test results needs to be changed due to the reasons of the service party, the service party shall issue the test results for the applicant again, and bear the cost of changing the test results, and entrust the service party to submit the restore test results. If the content of the test results needs to be changed due to the reasons of the applicant, the applicant shall submit an application for modification to the service party. If the test result is re-issued after the examination and approval of the service party, the related expenses shall be borne by the applicant, and the applicant shall submit the test result to the service party for restoration.



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