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中国认可
国际互认
检测
TESTING
CNAS L0984

TEST REPORT

№: WJ2024041001

Sample Name: Oil free Scroll Vacuum Pump

Entrusting Unit: GEOWELL VACUUM CO., LTD.

Test Category: Entrusted Test

Shenyang Huizhen Vacuum Technology Co., Ltd.
National Vacuum Equipment Quality Inspection and Testing Center

Notes

1. In general, the entrusted test is only liable for the test data and results of the received sample(s).

2. This test report is invalid without the "Special Seal for Inspection and Testing".

3. This test report is invalid without the signatures of the Chief Inspector, Reviewer, and Approver.

4.This test report is invalid if altered.

5.Copies of the report are invalid without being re-stamped with the "Special Seal for Inspection and Testing".

6.In case of any deviation from the test methods or lack of applicable standards, our company shall formulate test detailed testing rules as required by the entrusting party, conduct the test in strict accordance with such rules, and issue the test report.

7.If the entrusting party has any objections to the content and results of this test report, it shall file an application within fifteen (15) days from the date of taking delivery of the report. Applications filed after the time limit shall not be accepted.

Name:	Shenyang Huizhen Vacuum Technology Co., Ltd. National Vacuum Equipment Quality Inspection and Testing Center
Address:	No.2 Wanliutang Road, Dadong District, Shenyang, Liaoning
Tel:	024- 24807944 024- 24819625
Fax:	024- 24807944
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Shenyang Huizhen Vacuum Technology Co., Ltd.
National Vacuum Equipment Quality Inspection and Testing Center

TEST REPORT

No: WJ2024041001

Sample Description and Identification	Sample name	Oil-free scroll vacuum pump		
	Model/Specification	GWSP300	Trademark	/
	Test Location	Testing Room, Shenyang Huizhen Vacuum Technology Co., Ltd.		
	Manufacturer & Address	GEOWELL VACUUM CO., LTD. 99A-18, Chuangxin 1st. Road, Hunnan District, Shenyang, China 110169		
	Applicant & Address	GEOWELL VACUUM CO., LTD. 99A-18, Chuangxin 1st. Road, Hunnan District, Shenyang, China 110169		
	Receipt Date	April 10, 2024	Sample Submitter	Ning Xianning
	Sample Condition	Intact	Sample ID	C20240410-01-01
Sample Trait and Condition	Sample Grade	/	Original Sample No.	40714G
	Sample Quantity	1 Unit	Dimensions (mm)	493 × 297 × 334
	Sample Color	Grey	Weight (kg)	29
Test Standards	GB/T40344.1-2021 *Vacuum technology — Standard methods for measuring vacuum-pump performance — Part 1: General description* GB/T40344.2-2021 *Vacuum technology — Standard methods for measuring vacuum-pump performance — Part 2: Positive displacement vacuum pumps* JB/T11080-2011 *Vacuum technology — Scroll dry pump*			
Test Items	Ultimate Pressure, Volume Flow Rate (Pumping Speed) Curve, Maximum Power Consumption Curve			
Conclusion	Please refer to the data page for the test results.			
Remark				

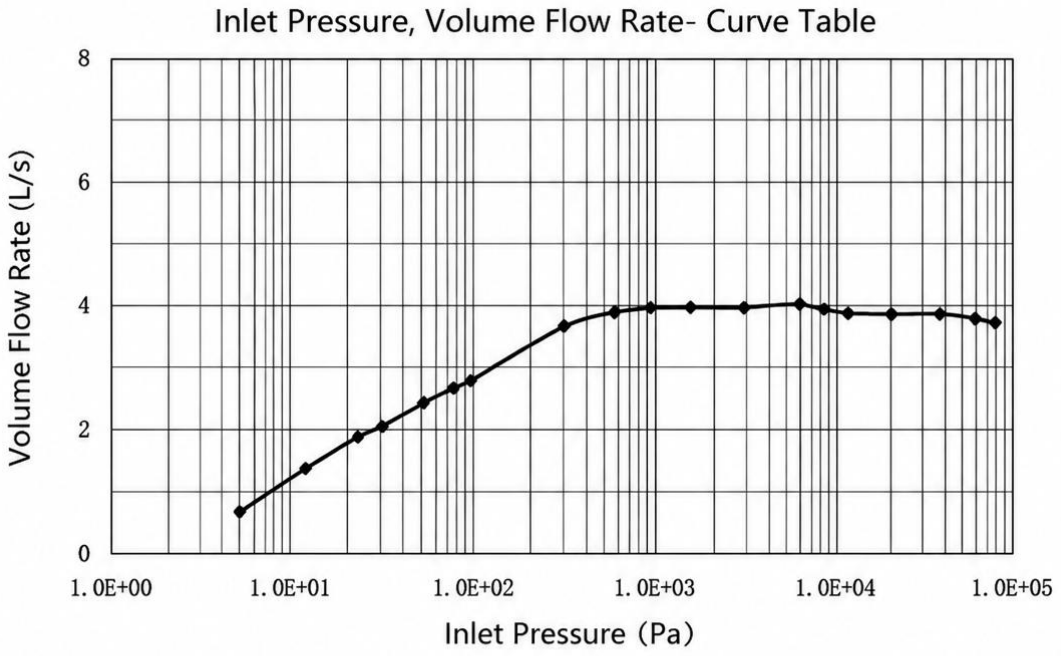
Shenyang Huizhen Vacuum Technology Co., Ltd.
National Vacuum Equipment Quality Inspection and Testing Center

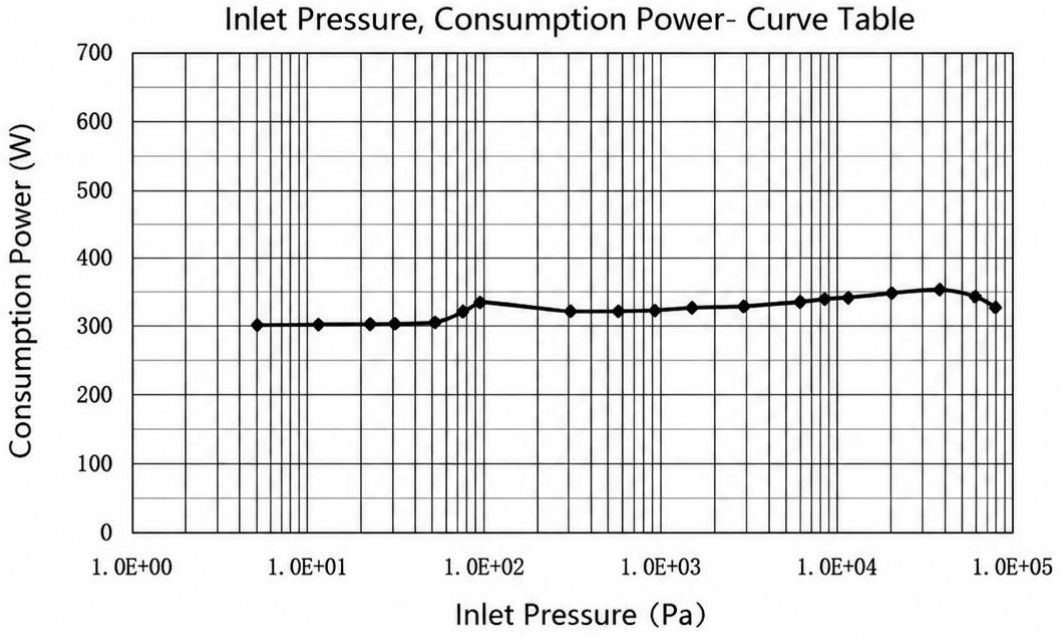
TEST REPORT

No.	Test Items Name	Standard Requirements or Clause No.	Test Results	Item Conclusion	Remark
1	Ultimate Pressure (Pa)	/	2.5	/	
2	Volume Flow Rate (L/s)	/	See curve	/	
3	Maximum Consumption Power (W)	/	349.3	/	
Environmental Conditions for Testing	Environmental Temperature: 18.8 °C Relative Humidity: 37.5% Atmospheric Pressure: 1009.0 hPa				
Main Test Equipment	Capacitance Diaphragm Gauge: J019-1#, J019-2#, J019-3# Glass Rotameters: 256#, 257#, 263# Glass Pipette Flowmeter: 033# Electronic Stopwatch: 167# Hand-held Digital Thermometers: 244#, 276# Aneroid Barometer: 034# Temperature and Humidity Recorder: 288# Power Analyzer: 260#				
Test Date	April 11, 2024				

Shenyang Huizhen Vacuum Technology Co., Ltd.
National Vacuum Equipment Quality Inspection and Testing Center

TEST REPORT





Shenyang Huizhen Vacuum Technology Co., Ltd.
National Vacuum Equipment Quality Inspection and Testing Center

TEST REPORT

Inlet Pressure, Volume Flow Rate, Consumption Power - Curve Table

Inlet Pressure (Pa)	Volume Flow Rate (L/s)	Consumption Power (W)	Inlet Pressure (Pa)	Volume Flow Rate (L/s)	Consumption Power (W)
5.19	0.64	295.32	1516.50	3.89	317.83
12.08	1.35	295.80	2893.00	3.88	320.48
23.08	1.87	297.16	6161.69	4.01	330.48
31.89	2.05	299.00	8543.84	3.95	335.38
53.07	2.44	301.38	11608.47	3.87	337.42
77.23	2.66	312.60	20507.66	3.84	344.28
96.89	2.76	321.57	38551.13	3.79	349.25
311.62	3.61	308.18	61374.67	3.66	341.70
585.61	3.84	312.39	80897.52	3.61	321.37
937.27	3.90	314.91	/	/	/

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中国认可
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检测
TESTING
CNAS L0984

检 测 报 告

№: WJ2024041001

样品名称：无油涡旋真空泵

委托单位：沈阳纪维应用技术有限公司

检测类别：委托检测

沈阳汇真真空技术有限公司
检验检测专用章

沈阳汇真真空技术有限公司
国家真空设备质量检验检测中心

沈阳汇真真空技术有限公司
国家真空设备质量检验检测中心

检测报告

No: WJ2024041001　　共4页 第1页

样品描述及识别	样品名称	无油涡旋真空泵			
	规格型号	GWSP300		商 标	/
	检测地点	沈阳汇真真空技术有限公司 检验检测室			
	生产单位及地址	沈阳纪维应用技术有限公司 沈阳市浑南区创新一路99甲-18号(110169)			
	委托单位及地址	沈阳纪维应用技术有限公司 沈阳市浑南区创新一路99甲-18号(110169)			
	样品接收日期	2024年04月10日		送样人	宁宪宁
	样品状态	完好		样品编号	C20240410-01-01
样品特征和状态	样品等级	/	样品原编号	40714G	
	样品数量	1台	外型尺寸mm	493×297×334	
	样品颜色	灰色	样品重量kg	29	
检测依据	GB/T40344.1-2021《真空技术 真空泵性能测量标准方法第1部分：总体要求》、GB/T40344.2-2021《真空技术 真空泵性能测量标准方法 第2部分：容积真空泵》、JB/T11080-2011《真空技术 涡旋干式真空泵》				
检测项目	基础压力、体积流率（曲线）、最大消耗功率（曲线）				
检测结论	检测结果见数据页。 沈阳汇真真空技术有限公司 检验检测专用章 签发日期：2024年4月15日				
备注					

批准:　　审核:　　主检:

沈阳汇真真空技术有限公司
国家真空设备质量检验检测中心

检测报告

No：WJ2024041001　　共4页 第2页

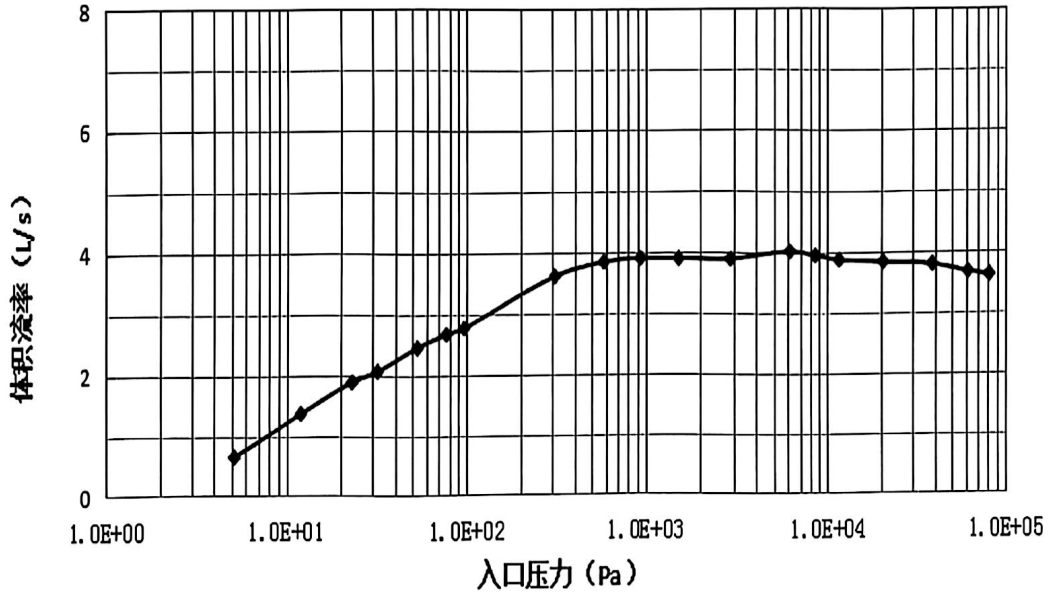
序号	检测项目名称（单位）	标准要求或条款号	实测结果	本项结论	备注
1	基础压力（Pa）	/	2.5	/	以下空白
2	体积流率（L/s）	/	见曲线	/	
3	最大消耗功率（W）	/	349.3	/	
		以下空白			
检测环境条件	环境温度：18.8℃ 相对湿度：37.5% 大气压力：1009.0hPa				
检测主要设备	J019-1"、J019-2"、J019-3"电容薄膜真空计、 256"、257"、263"玻璃转子流量计 033"玻璃滴管流量计、167"电子秒表 260"功率分析仪 244"、276"手持式数字温度计 034"空盒气压表 288"温湿度记录仪				
检测日期	2024年04月11日				

沈阳汇真真空技术有限公司
国家真空设备质量检验检测中心

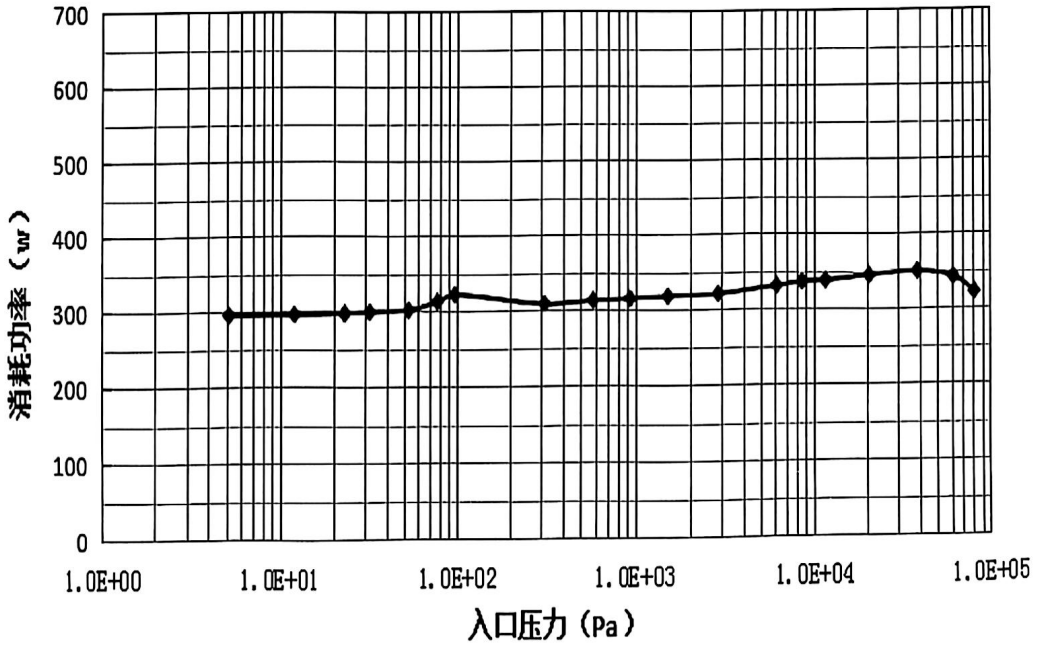
检测报告

No: WJ2024041001

入口压力、体积流率-曲线



入口压力、消耗功率-曲线



沈阳汇真真空技术有限公司
国家真空设备质量检验检测中心

检测报告

No：WJ2024041001

入口压力、体积流率和消耗功率-曲线表

入口压力（Pa）	体积流率(L/s)	消耗功率（w）	入口压力（Pa）	体积流率(L/s)	消耗功率（w）
5.19	0.64	295.32	1516.50	3.89	317.83
12.08	1.35	295.80	2893.00	3.88	320.48
23.08	1.87	297.16	6161.69	4.01	330.48
31.89	2.05	299.00	8543.84	3.95	335.38
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585.61	3.84	312.39	80897.52	3.61	321.37
937.27	3.90	314.91	/	/	/