



Report No: T31-C-2016-11-001

Test Report

Product Name: RAD

Specification : KJ-12211A

Inspected Entity: Guangzhou Kinga Autoparts Industry Manufacture Co., Ltd

Test Items: Performance Test

Declaration

1. Our institution insures the equity, independence and honesty of the test. We are responsible for the data of the test, keep secret of the sample provided by the constituent and own the right of saving it.

2. This report has the assessor's or licensor's signature without edit artificially. It will be invalid without stampage of the special badge.

3. The constituent can put forward the problem to us within 15 days after he received the report if he doesn't satisfy with the report. It won't be dealt with if it exceeds the limit date.

4. If the testing sample is entrusted by third party, the testing center cannot guarantee the authenticity of the sample information. The testing result applies only to the test sample

5. Every page of the report is relative to each .We won't take the corresponding legal responsibility for the aftereffects which result from taking one from the report and causing other effects.

Communication Address

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Test Report

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Sample Name	RAD	Specification	KJ-12211A
Material	/	Quantity	1
Test No	2016-10-1881Y	Test Classification	For inspection
Date of Delivery	2015-11-01	Test Date	2016-11-03
Client	Guangzhou Kinga Autoparts Industry Manufacture Co., Ltd	Phone No	/
The address of the client	Guangzhou KINGA AUTOPARTS Industrial Park, No. 18 Guangcongnan Road, Conghua District, Guangzhou	Zip code	/
Test Location	Heat Exchanger Test Center of Yinlun Co.,Ltd,Zhejiang		
Test Rig	1#Cleanliness test rig	/	
Rig No	ZX-529-001	/	
Equipment Validity	2017-01-20	/	
Test Environment	Temp: 15.01℃	Humidity: 62.80%RH	
Test Criteria	1. Order number:201610889 2. QC/T 468-2010 《Automobile radiator》		
Test Result	/		
Comments	Area:730mm×375mm RAD hot side medium: 50%glycol+50%water		
Notes	1.Any disagreement about test report should be reported to the test department within 15days from date of receiving the test report. 2.The contact phone No:0576-83938305.		
Attachment	1. Test data 2. Performance curves 3. Installation picture of Performance test		

Editor:

金虎良

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马书华

Approved by:

张敏

Sign Date: 2016-11-21

YINLUN CO., LTD, ZHEJIANG
4QF10-066c



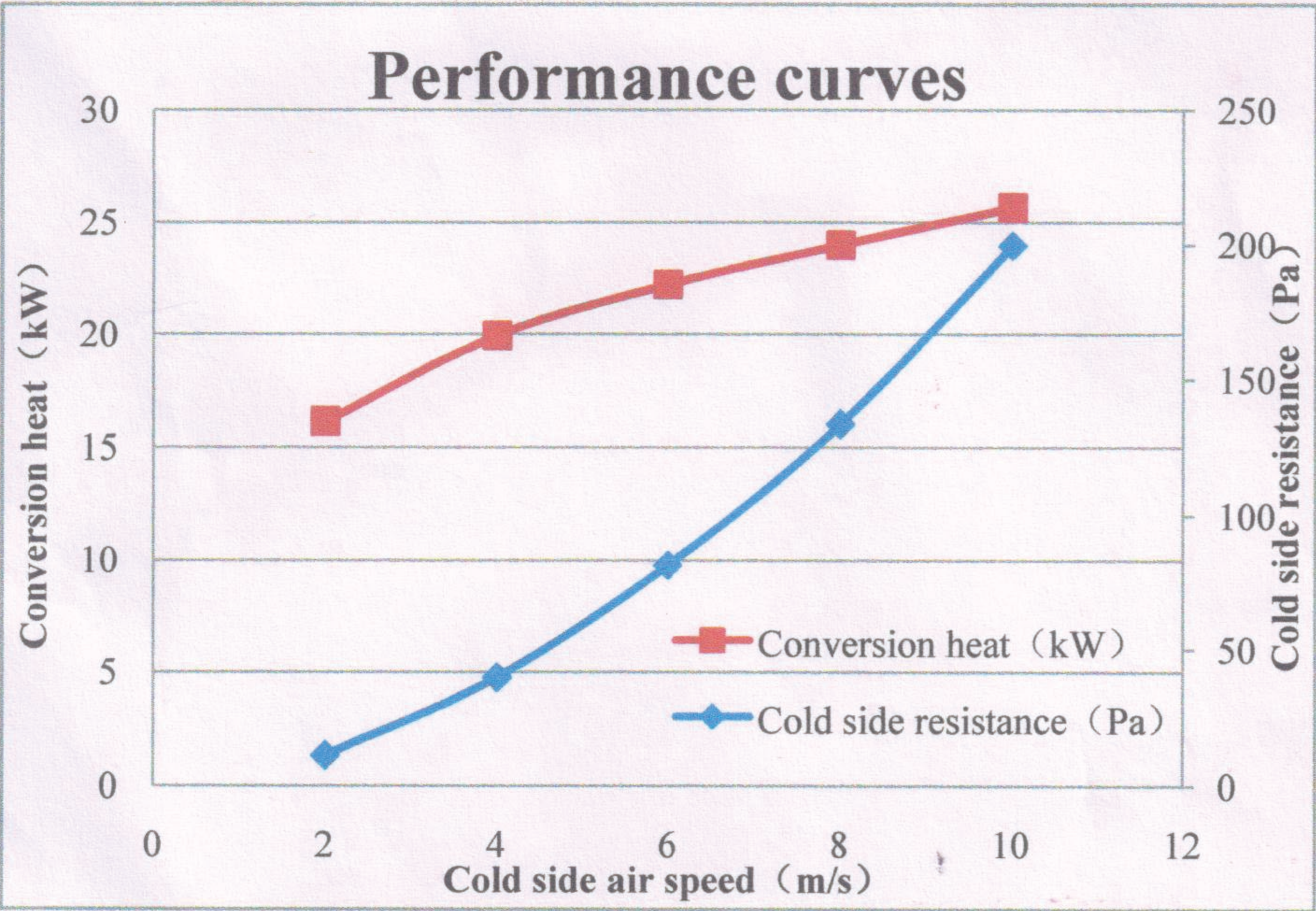
Detailed information of the Test Data

Item Name	Quality Index	Test Result
		Sample Number
		2016-10-1881Y
Performance Test	Water side inlet temperature75℃, cold side inlet temperature 15℃, Water inlet flow rate 40L/min, cold side air speed (2、4、6、8、10) m/s.	Performance testing data see Table 1

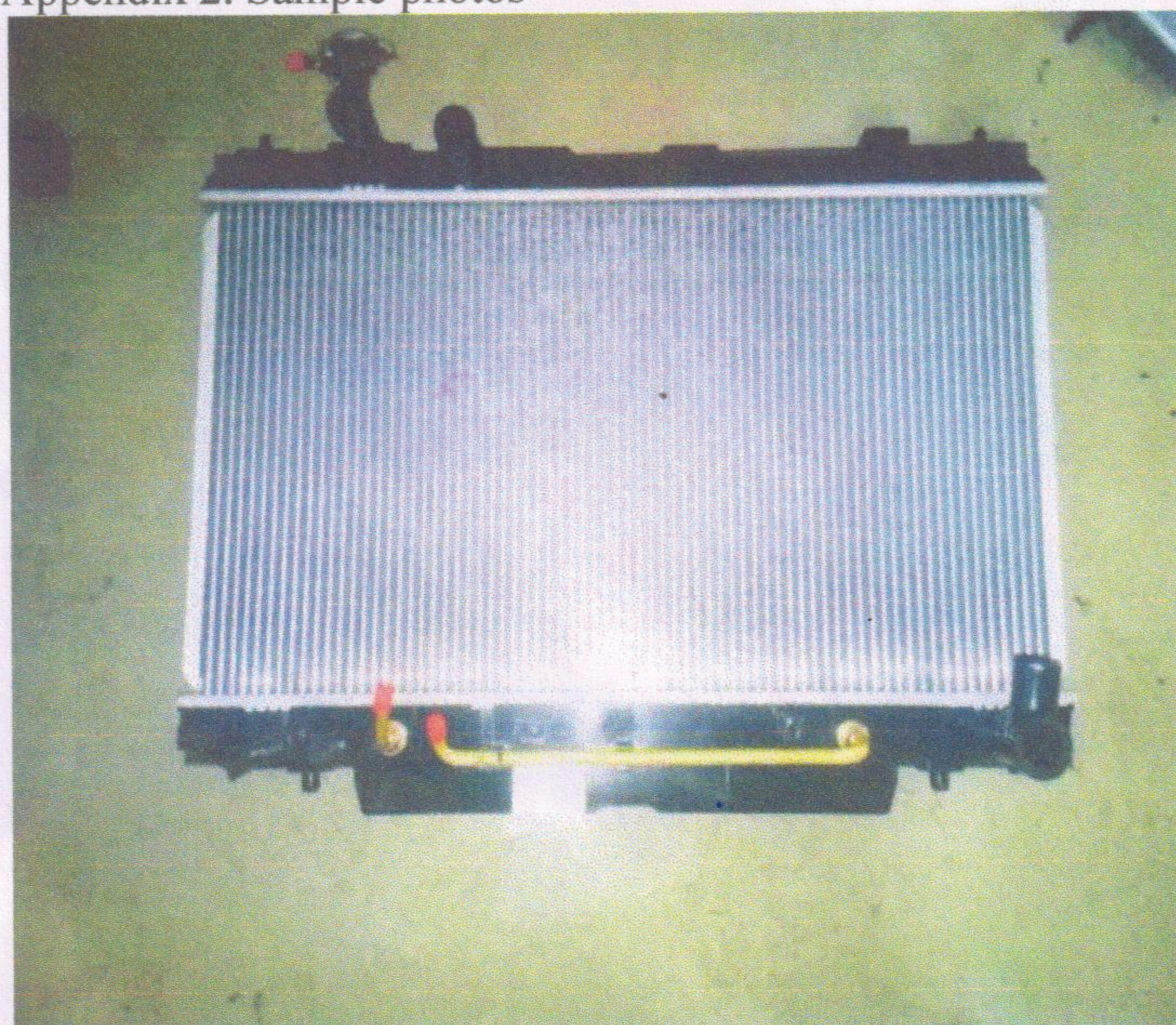
Table 1.test date

	1	2	3	4	5
Water temperature at inlet (℃)	75.00	75.05	75.02	75.02	75.01
Water temperature at outlet (℃)	68.29	66.77	65.80	65.04	64.34
volume flow water side (L/min)	39.89	39.93	39.93	39.88	39.93
Pressure drop water side (kPa)	7.47	7.57	7.64	7.67	7.70
Water heat (kW)	16.17	19.97	22.23	24.01	25.67
Cold side inlet temperature (℃)	15.01	15.01	15.00	15.01	15.01
Cold side air speed (m/s)	2.00	4.00	5.99	8.00	10.01
Cold side resistance (Pa)	11.30	39.80	81.60	133.80	199.70
Conversion heat (kW)	16.17	19.95	22.22	24.00	25.67

Appendix 1.Performance curves



Appendix 2. Sample photos



Appendix3. Installation picture of Performance test

