

LISTING REPORT

INTERTEK TESTING SERVICES NA INC.

1717 Arlingate Lane

Columbus, OH 43228

Job No. 3136556

Issued: February 15, 2008
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REPORT NO. 3136556COL-003

INSPECTION, TESTS AND EVALUATION
OF
AUTOMOTIVE REFRIGERANT RECOVERY/RECYCLING/RECHARGING EQUIPMENT (R-134A)

RENDERED TO

RTI TECHNOLOGIES, INC.
YORK, PA

GENERAL: This Report gives the results of the inspection, tests and evaluation of automotive refrigerant recovery, recycling and recharging equipment for compliance with the Standards listed below. This investigation was authorized by signed application No. 500054126, dated Oct. 12, 2007. The investigation began on Oct. 22, 2007 and was completed on February 8, 2008. A prototype sample, serial no. 292000-270907-001, in good condition was provided by the client on Oct. 22, 2008 and tested at the client's facility in York, PA and the Intertek laboratory in Columbus, OH.

Standard for Safety for Refrigerant Recovery/Recycling Equipment
(UL 1963, Third Edition, Dated September 30, 2005)
Standard contains revisions through and including February 23, 2006

Refrigerant Equipment
(CAN/CSA-C22.2 No.120-M91, Third Edition, issued September 1991, and reaffirmed on 2004)

HFC-134a (R-134a) Recovery/Recycling Equipment and Recovery/Recycling/Recharging Equipment for Mobile
Air-Conditioning Systems (SAE J2788-2006)

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York, PA 17402, USA

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<u>Report Composition:</u>	<u>Numbering</u>
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REVISION SUMMARY - The following changes have been made to this Report:

<u>Date/ Proj # Off ID</u>	<u>Project Handler/ Reviewer</u>	<u>Page</u>	<u>Item</u>	<u>Description of Change</u>
				NONE

PRODUCT DESCRIPTION

PRODUCT COVERED

The model number covered by this report is RHS980.

PRODUCT DESCRIPTION

The product is refrigerant recovery/recycling/recharging equipment for automotive air conditioning systems using R-134a and is cord connected.

ELECTRICAL RATINGS

<u>Product</u>	<u>Voltage</u>	<u>Current/Power</u>	<u>Frequency</u>
RHS980	120 Volts	10 Amps	60 Hz

Other RATINGS

The product is designed to meet the requirements of SAE J2788 which requires equipment to be able to:

- Recover 95% of the refrigerant contained in the vehicle air-conditioning system within 30 minutes
- Recycle the refrigerant to the purity levels specified in SAE J2099, namely
 - ≤ 50 ppm moisture
 - ≤ 500 ppm lubricant
 - ≤ 150 ppm noncondensable gases
- Recharge the cleaned refrigerant into the vehicle with an accuracy of ± 15 grams

TEST PERFORMANCE NO. 1

A representative sample of the product was tested in accordance with the Standard for Safety for Refrigerant Recovery/Recycling Equipment (UL 1963, Third Edition, Dated September 30, 2005) and Refrigerant Equipment (CAN/CSA-C22.2 No.120-M91, Third Edition, issued September 1991, and reaffirmed on 2004). Tests were also conducted per the Standard for HFC-134a (R-134a) Recovery/Recycling Equipment and Recovery/Recycling/Recharging Equipment for Mobile Air-Conditioning Systems (SAE J2788-2006) to cover mandated performance requirements.

The following tests were performed:

<u>Test Description</u>	<u>UL 1963 Clause</u>
Leakage Current Test – Cord Connected Equipment	43
Input Test	44
Starting Test	45
Temperature and Pressure Test	46
Automotive Refrigerant 134a Recovery/Recycling Equipment	48
Dielectric Voltage-Withstand Test	53
Stability Test	57
Strain Relief Test	58
Shelf Strength Test	74
<u>Test Description</u>	<u>SAE J2788 Clause</u>
Recharging Test Using a Vehicle	10.3
Recovery Test Using a Vehicle	10.4

The following tests were conducted by: Parker Hannifin Corporation
 Fluid Control Division
 95 Edgewood Avenue
 New Britain, CT 06051, USA

ISO/IEC 17025 Compliant Testing Facility
 CSA International Category Program for Certification (CPC)
 Certificate No: CAT-0057
 Issue Date: May 14, 2007
 Expiry Date: May 13, 2010

<u>Test Description</u>	<u>UL 1963 Clause</u>	<u>Report No.</u>
Strength Tests – Pressure Containing Components Refrigerant System	70	LR13631

Results of the tests indicate the specimens conform to applicable test criteria.

CONCLUSION

A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the Standard for Safety for Refrigerant Recovery/Recycling Equipment (UL 1963, Third Edition, Dated September 30, 2005) and Refrigerant Equipment (CAN/CSA-C22.2 No.120-M91, Third Edition, issued September 1991, and reaffirmed on 2004) and the Standard for HFC-134a (R-134a) Recovery/Recycling Equipment and Recovery/Recycling/Recharging Equipment for Mobile Air-Conditioning Systems (SAE J2788-2006).

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