



REPORT
ETL TESTING LABORATORIES, INC.
INDUSTRIAL PARK CORTLAND, NEW YORK 13045

Order No. 70426-203

Date: January 15, 1993
Revised: March 10, 1995

REPORT NO. 525122

INSPECTION, TESTS, AND EVALUATION
OF AN AUTOMOTIVE RECOVERY OR/RECYCLING UNIT

RENDERED TO

REFRIGERANT TECHNOLOGIES, INC.
YORK, PA 17402-0099

GENERAL:

This report gives the results of the inspection, tests, and evaluation of the Models TC700, TC700-R134a, RRC770, RRC770-R134a, TC2700, AC790 and AC800 Refrigerant Recovery/Recycling Equipment for compliance with the requirements of the Standards for Refrigerant Recovery/Recycling Equipment (UL-1963) and for Models TC700, AC790, RRC770, TC2700 and AC800 the Standard for Extraction and Recycle Equipment for Mobile Air Conditioning Systems (SAE-J1990) and Models TC700-R134a, RRC770-R134a, TC2700, AC790 and AC800 the Standard for HFC-134a Recycling Equipment for Mobile Air Conditioning Systems (SAE-J2210).

The sample was provided by the client and tested at ETL's Cortland facility.

REFRIGERANT RECOVERY OR RECYCLING EQUIPMENT-AUTOMOTIVE USE
(CATEGORY 158aI, 158bI, 158cI)

Participant: Refrigerant Technologies, Incorporated
P.O. Box 3099
4075 East Market Street
York, PA 17402-0099

Manufacturer: Same as Participant

An independent organization testing for safety, performance, and certification.

All services undertaken subject to the following general policy: Reports are submitted for exclusive use of the clients to whom they are addressed. Their significance is subject to the adequacy and representative character of the samples and to the comprehensiveness of the tests, examinations or surveys made. No quotations from reports or use of ETL's name is permitted except as expressly authorized by ETL in writing.

CONSTRUCTION

PRODUCT COVERED:Category 158aI

Model TC700
 Model RRC770
 Model AC-790

Category 158bI

Model TC700-R134a
 Model RRC770-R134a
 Model AC-790-R134a
 Model RRC771
 Model AC771
 Model RHS780

Category 158cI

Model AC-800
 Model TC2700
 Model TC2770

PRODUCT DESCRIPTION:

The product covered by this report is a Refrigerant Recovery/Recycling unit. The unit removes contaminated refrigerant from a mobile air conditioner. Then it purifies it to less than the specified levels in SAE-J1991 or SAE-2210. The unit has an internal storage cylinder that may hold up to approximately 10 pounds of clean refrigerant. The TC700 and the RRC770 purifies R-12 only, The RRC771, TC700-134a and the RRC770-R134a process R-134a only and the AC800 and TC2700 process either R-12 or R-134a.

The unit is provided with a No. 16 AWG, 3 conductor power supply cord for connection to the supply source. The AC and TC2700 may be operated with a DOT storage tank. If the DOT tank is used then the overflow protective device must be part of the tank and the field installed connection cord must be installed in through the provided knock out.

MODEL SIMILARITY:

The Model RRC700/TC700, RRC771, RRC770-R134a/TC700-R134a, AC790/AC790-R134a and AC800/TC2700/TC2770 are identical except for the addition of gauges for the RRC models which are not present on the TC models. During manufacturing generic models are produced which are sent to distributors. Before sale of the unit, an RTI trained and qualified service person uses the appropriate retrofit kit, described in this report, to allow the unit to recover and recycle R-12 or R-134a. A unit may be converted at a distribution location by an RTI trained service person, after sale. This is accomplished by using the retrofit kit and instructions described in this report. The Models AC800 and RC2700 is a merger of the TC700 and the TC700-134a. While looking at the rear of the unit the left side is all R-134a processing and the right side is all R-12 processing. The two halves are almost mirrors of each other.

Model RHS780 is identical to the listed model no. RRC770-R134a, except the Control Board. The Control Board of model no. RHS780 is explained on pages 35, 36, 37 and I43.

ELECTRICAL RATING:

All Models are rated 120 volts, 60 hertz, 12 amperes.

REPORT

ETL TESTING LABORATORIES, INC.

INDUSTRIAL PARK

CORTLAND, NEW YORK 13045

Order No. 71200-203

Date: March 10, 1993

Revised: December 2, 1996

REPORT NO. 526215

INSPECTION, TESTS, AND EVALUATION
OF AN AUTOMOTIVE RECOVERY OR RECYCLING UNIT

RENDERED TO

REFRIGERANT TECHNOLOGIES, INC.
YORK, PA 17402-0099

GENERAL:

This report gives the results of the inspection, tests, and evaluation of Models TX600, TX600-R134A, TX 200, TC670, TC670-134A and TC2670.

The TX600 was investigated for compliance with the requirements of the Standard for Refrigerant Recovery/Recycling Equipment (UL-1963) and the Standard for Extraction and Recycling Equipment for Mobile Automotive Air Conditioning Systems (SAE-J1990). This investigation was authorized by Purchase Order ENGR076, and was begun in February 1993 and completed in March 1993.

The TX600-R134A and TC670-134A/TC2670 was investigated for compliance with the requirements of the Standard for Refrigerant Recovery/Recycling Equipment (UL-1963) and the Standard for HFC-134A Recycling Equipment For Mobile Air-Conditioning Systems (SAE-J2210). This investigation was authorized by Purchase Order ENGR092, and was begun in February 1993 and completed in March 1993.

The TX200 was investigated for compliance with the requirements of the Standard for Refrigerant Recovery/Recycling Equipment (UL-1963) and the Standard for CFC (R-12) Extraction Equipment For Mobile Automotive Air Conditioning Systems, (SAE-J2209).

The sample was provided by the client and tested at ETL's Cortland facility.

REFRIGERANT RECOVERY OR RECYCLING EQUIPMENT - AUTOMOTIVE USE
(CATEGORY 158aI, 158aII or 158bI)

REFRIGERANT RECOVERY OR RECYCLING EQUIPMENT - COMMERCIAL USE
(CATEGORY 159)

Participant: Refrigerant Technologies Incorporated
P.O. Box 3099
4075 East Market Street
York, PA 17402-0099

Manufacturer: Same as Participant

An independent organization testing for safety, performance, and certification.

All services undertaken subject to the following general policy: Reports are submitted for exclusive use of the clients to whom they are addressed. Their significance is subject to the adequacy and representative character of the samples and to the comprehensiveness of the tests, examinations or surveys made. No quotations from reports or use of ETL's name is permitted except as expressly authorized by ETL in writing.

CONSTRUCTIONPRODUCT COVERED:

<u>Category 158aI</u>	<u>Category 158aII</u>	<u>Category 158bI</u>	<u>Category 159</u>
Model TX600	Model TX200	Model TX600-134a	Commercial Use,
Model TC670		Model TC670-134a	Models TX600,
Model AC670		Model AC670-134a	TX200, TC670/TC2670,
Model TC2670		Model TC2670	and AC670, RHS2780
Model RHS2780		Model RHS2780	Model RHS80
Model RHS680		Model RHS680	

PRODUCT DESCRIPTION:AUTOMOTIVE RECOVERY RECYCLING

These units remove contaminated refrigerant from a mobile air conditioner. Then it purifies it to less than the specified levels in either SAE-J1991 or SAE J2099, depending on the refrigerant processed and unit used. The TX600 and TC670 shall only be used to process R-12 and the TX600-R134A and TC670-134A shall only be used to process R-134A and TC2670 and RHS2780 process either R-12 or R-134A. A manifold gauge set must be provided with the unit to meet the purging requirements in both SAE-J1990 and SAE-J2210.

COMMERCIAL RECOVERY RECYCLING

The commercial recovery recycling units remove contaminated refrigerant from commercial air conditioning systems and purify the refrigerant by removing oil, water and noncondensables.

RECOVERY ONLY

The recovery only units remove refrigerant from a mobile air conditioning system (automotive use) or from commercial air conditioning system (commercial use) and places the refrigerant into DOT approved storage cylinders provided by the user. This unit does not purify the refrigerant in either case.

The TX600, TC670, TC2670 and RHS2780 units are provided with a No. 16 AWG, 3 conductor power supply cord for connection to the supply source. The TX200 units are provided with a No. 16 AWG, 3 conductor supply cord. All cord connected units are provided with a NEMA 5-15P plug attached. All units must be operated with DOT approved cylinder and cylinder must have 80% full liquid level sensor.

MODEL SIMILARITY:

The Models TX600 and TX600-R134a are identical in construction and wiring as are the TC 670 and TC-670-134a. The TC2670 and RHS2780 is a dual machine R-12 and R-134a consisting of the same components as the TC670, TC670-134a and RHS780 which is called out in report 525122.

The TC670 and TC670-134a are identical to the TX600 and TX600-R134A for automotive recycling as internal components and flow diagram. The only difference being that the recovery cylinder is built into the cabinet instead of being external as in the TX600 series. Electrical wiring is the same as used in the RRC770 series per Report No. 525122.

CORRELATION PAGE FOR MULTIPLE LISTINGS

The following products which are identical to those identified in the product description except for model number and Listee Name, are authorized to bear the ETL label under provisions of the ITS Multiple Listing Program.

MULTIPLE LISTEE

MATCO Tools
4403 Allen Road
Stow, OH 44224

Contact: Mr. Chris Bahman
Phone: 330-926-5547 Fax: 330-926-5320

BASIC LISTEE:

RTI Technologies, Inc.
PO Box 3099
4075 E. Market Street
York, PA 17402-0099

Contact: Mr. Tom Crandall
Phone: 717-840-0678 ext. 233 Fax: 717-755-8304

MANUFACTURER

RTI Technologies, Inc.
PO Box 3099
4075 E. Market Street
York, PA 17402-0099

Contact: Mr. Tom Crandall
Phone: 717-840-0678 ext. 233 Fax: 717-755-8304

PRODUCT

Refrigerant Recovery/Recycling Unit, which removes contaminated refrigerant from a mobile air conditioner and purifies it to less than the specified levels in SAE-J1991 or SAE-2210.

MULTIPLE LISTEE
MODEL NO.

AC880
AC2860
AC2880

BASIC LISTEE
MODEL NO.

RHS780
TC2670 (R12 or R134a dual)
RHS2780
TC670 (R12 or R134a single)

Note: See page 2 for the additional models listed under the Basic Listee.