

THINK CELSIUS°

A/C Service Catalogue 2008

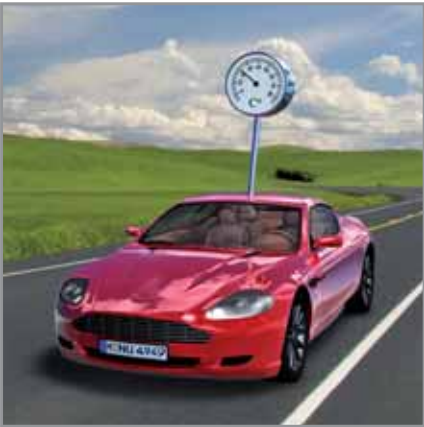












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A/C RECOVERY RECYCLING RECHARGING UNITS



ROBINAIR[®]
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A/C RECOVERY RECYCLING RECHARGING UNITS



IMPORTANCE OF AIR CONDITIONING SYSTEM

A global partnership is working to reduce the emission of greenhouse gases from the use of motor vehicle air conditioning systems. Air conditioning has become a standard option on most vehicles, enhancing comfort and safety. Modern systems feature integrated cooling, heating, de-misting and de-frosting, air filtering, and humidity control. These systems improve passenger security by allowing windows to remain closed, improve driver alertness with temperature choice, and increase the visibility by de-misting and de-fogging windows during bad weather. Because consumers expect a high level of comfort and safety, energy-efficient air conditioning is considered vital for consumer acceptance of future vehicles; as well as a reduction in fuel consumption powering current mobile conditioning systems.

(Source: SAE, EPA, MACS, EU, VDA)

AIR CONDITIONING SYSTEM MAINTENANCE

It is very important to have regular maintenance of Mobile Air Conditioning systems. Just like a well running car can get the best consumption and keep passengers safe on the road, properly operating Air Conditioning Systems will work more efficiently and keep passengers comfortable. One of the best ways to avoid problems with the Air Conditioning systems is to prevent the problems before they even occur.

You can do this by scheduling regular maintenance for customer's cooling systems. With Robinair you can rest assured that the system is being taken care of by highly qualified technicians using the right equipment and maintaining the air conditioning system at its best.

ROBINAIR AIR CONDITIONING RRR UNITS

Robinair Recovery Recycling Recharging units are the most advanced and diffused A/C service stations for cars, trucks and buses in the world. Automatic and user-friendly, they are developed for use on Automotive R134a air conditioning systems with the minimum amount of user intervention possible. The units control the recovery, recycling and recharging process for the oil and refrigerant supporting the needs of the operator. They can also be used in manual mode to control each phase independently. The units are equipped with an integrated database supplying details of the required refrigerant and oil quantities in the vehicle A/C systems and are also equipped with a printer for a detailed activity report.



ROBINAIR A/C SERVICE UNITS



AC490PRO
SEMI-AUTOMATIC



AC590PRO
AUTOMATIC



AC690PRO
FULLY AUTOMATIC



AC790PRO
AUTOMATIC-HEAVY DUTY



ACM3000-ROB
AUTOMATIC-BABY COOL



AC744PRO
NEW GENERATION UNIT

A/C RECOVERY RECYCLING RECHARGEING UNITS

AC490PRO · SEMI-AUTOMATIC UNIT

AC490PRO is a semi-automatic service station for recovering, recycling and recharging of R134a refrigerant. The unit represents best value, offering key features, performance & easy use for all technician levels. The powerful dual stage vacuum pump guarantees a rapid and effective emptying of the A/C system. The unit may be equipped with an integrated database supplying the details of the required refrigerant and oil quantities in the vehicle A/C systems and may also be equipped with a printer for a detailed activity report.

FUNCTION

- Dual operating mode: Expert or Beginner
- Selection of every single function (recovery, vacuum, etc.)
- Programmable vacuum phase
- Automatic refrigerant charging
- Integrated and guided test of A/C system pressure
- Automatic discharge of non condensable gas
- Programmable maintenance
- Multi-language display
- Data transfer and database updating through Smart Cartridge
- Automatic management of service hoses
- Integrated flushing programme

TECHNICAL STRENGTH

Vacuum pump:	Dual Stage 180 L/min (6,5 CFM)
Tank capacity:	10 Kg – lb 22
Oil tank:	2 x 250 ml
Filter dryer high performance:	710 cc
Compressor:	1/4 HP - 9 cc



AC590PRO · AUTOMATIC UNIT

AC590PRO is the most popular service station for the European A/C specialist. It has all the functions and performance required for professional use with Automotive R134a air conditioning systems. The unit automatically performs recovery, recycling and recharging of refrigerant. The powerful dual stage vacuum pump guarantees a rapid and effective emptying of the A/C system. The unit is equipped with an integrated database supplying details of the required refrigerant and oil quantities in the vehicle A/C systems, and an optional printer is available for a detailed activity report.

FUNCTION

- Dual operating mode: Expert or Beginner
- Automatic recovery and recycling management
- Manual or automatic operation
- Multi-pass recycling
- Programmable vacuum phase
- Automatic refrigerant charging
- Integrated and guided test of A/C system pressure
- Automatic oil discharge
- Oil injection with solenoid
- Automatic discharge of non condensable gases
- Programmable maintenance
- Multi-language display
- Automatic management of service hoses
- Integrated flushing programme
- Data transfer and database update through Smart Cartridge

TECHNICAL STRENGTH

Vacuum pump:	Dual Stage 180 L/min (6,5 CFM)
Tank capacity:	20 Kg – lb 44
Oil tank:	2 x 250 ml
Filter dryer high performance:	710 cc
Compressor:	1/3 HP –14 cc



A/C RECOVERY RECYCLING RECHARGING UNITS

AC690PRO • FULLY AUTOMATIC UNIT

AC690PRO is the most advanced service stations for cars, trucks and buses.

Fully automatic and user-friendly it is developed for use on Automotive R134a air conditioning systems with the minimum amount of user intervention possible. The unit automatically controls the recovery, recycling and recharging process for the oil the refrigerant without needing the operator. It can also be used in manual mode to control each phase independently. The powerful dual stage vacuum pump guarantees a rapid and effective emptying of the A/C system. The unit is equipped with an integrated database supplying details of the required refrigerant and oil quantities in the vehicle A/C systems and is also equipped with a printer for a detailed activity report.

FUNCTION

- Dual operating mode: Expert or Beginner
- Automatic recovery and recycling management
- Manual or automatic operation
- Multi-pass recycling
- Programmable vacuum phase
- Automatic refrigerant charging
- Integrated and guided test of A/C system pressure
- Automatic oil discharge with electronic scale
- Automatic UV dye injection
- Automatic oil injection with electronic scale
- Automatic discharge of non condensable gases
- Programmable maintenance
- Multi-language display
- Automatic management of service hoses
- Integrated flushing programme
- Data transfer and database update through Smart Cartridge

TECHNICAL STRENGTH

Vacuum pump:	Dual Stage 180 L/min (6,5 CFM)
Tank capacity:	20 Kg – lb 44
Oil tank:	2 x 250 ml
Filter dryer high performance:	710 cc
UV tank:	50 ml
Compressor:	1/3 HP - 14 cc



AC790PRO · AUTOMATIC-HEAVY DUTY UNIT

AC790PRO is the most advanced service station for bus and industrial vehicles. Automatic and user-friendly it has been developed for Automotive R134a air conditioning systems with big dimensions. The unit automatically controls the recovery, recycling and recharging process.

The powerful compressor provides a constant refrigerant recovery limiting any icing phenomena in the A/C system filter dryer.

The special software provides a step by step oil recovery limiting foaming phenomena and the risk of oil return into the compressor.

The twin fan guarantees an excellent control of the temperature and refrigerant pressure in the recovery phase and the working temperature of all internal components (compressor, pumps, electronic circuits).

The Gain Pump allows a fast and complete recharge of refrigerant and oil.

The unit is equipped with a printer for a detailed activity report.

FUNCTION

- Dual operating mode: Expert or Beginner
- Automatic recovery and recycling management
- Manual or automatic operation
- Multi-pass recycling
- Programmable vacuum phase
- Automatic refrigerant and oil recharging with Gain Pump
- Automatic management of service hoses
- Integrated flushing programme
- Integrated and guided A/C system pressure test
- Automatic oil discharge
- Automatic discharge of non condensable gases
- Multi-language display
- Data transfer and database update through Smart Cartridge

TECHNICAL STRENGTH

Vacuum pump:	Dual Stage 283 L/min (10 CFM)
Tank capacity:	35 Kg – 77,16 lb
Oil tank:	2 x 2000 ml
Filter dryer high performance:	710 cc
Compressor:	5/8 HP - 21 cc
Gain Pump:	1L/min



A/C RECOVERY RECYCLING RECHARGING UNITS



ACM3000-ROB** · AUTOMATIC-BABY COOL UNIT

ACM3000-ROB is a unit for the A/C specialists. It has all the functions and performance required for professional use with Automotive R134a air conditioning systems. The unit automatically performs recovery, recycling and recharging of refrigerant and guarantees a rapid and full dehydration of the A/C system. Moreover, an optional printer is available for a detailed activity report.

FUNCTION

- Automatic recovery
- Automatic recycling
- Automatic oil discharge
- Programmable vacuum phase
- Automatic A/C system test
- Automatic refrigerant charging
- Automatic non condensable discharge
- Programmable maintenance
- Multi-language display
- Super-Cool exchanger
- A/C systems integrated database (optional)

TECHNICAL STRENGTH

Vacuum pump:	70 L/min 2,5CFM
Tank capacity:	8 Kg
Oil tank:	2 x 250 ml
Filter dryer high performance:	300 cc
Compressor:	1/4 HP 9 cc



**Limited availability to specific countries

ROBINAIR A/C UNITS

Technical specification	AC490PRO	AC590PRO	AC690PRO	AC790PRO	ACM3000-ROB
Refrigerant	R134a	R134a	R134a	R134a	R134a
Recovery, Recycling, Recharging unit	Semi-automatic	Automatic	Fully automatic	Automatic	Automatic
Flushing unit	Optional kit	Optional kit	Optional kit	Optional kit	-
Electronic database (2008)	Optional	Standard	Standard	Standard	Optional
AC diagnostic kit	Optional	Optional	Optional	Optional	-
User database	250 vehicles	250 vehicles	250 vehicles	250 vehicles	-
Database update	Smart Cartridge	Smart Cartridge	Smart Cartridge	Smart Cartridge	Smart Cartridge
Max operating pressure	16 bar	16 bar	16 bar	18 bar	18 bar
Operating temperature	10 - 50 °C	10 - 50 °C	10 - 50 °C	10 - 50 °C	10 - 50 °C
Power supply	230 V 50/60 Hz*	230 V 50/60 Hz*	230 V 50/60 Hz*	230 V 50/60 Hz*	230 V 50/60 Hz*
Dimensions in cm	128 x 69 x 69	128 x 69 x 69	128 x 69 x 69	128 x 69 x 69	55 x 52 x 95
Weight	100 kg	110 kg	110 kg	120 kg	60 kg
Conformity	CE/PED	CE/PED	CE/PED	CE/PED	CE/PED
Main functions					
Manual operating mode	Yes	Yes	Yes	Yes	Yes
Automatic operating mode	Yes (only charge)	Yes	Yes (fully)	Yes	Yes
Automatic recovery restart		Yes	Yes	Yes	Yes
Programmable vacuum phase	Yes	Yes	Yes	Yes	Yes
Automatic AC system leak test	-	Yes	Yes	Yes	Yes
Oil discharge	Manual	Automatic	Automatic with scale	Automatic	Automatic
Oil injection	Manual - Visual control	Manual with solenoid Visual control	Automatic with electronic scale control	Manual with solenoid Visual control	Manual with solenoid Visual control
UV dye injection	Manual	Manual	Automatic	Manual	Manual
Automatic refrigerant recharging	Yes	Yes	Yes	Yes with Gain Pump	Yes
Service hoses compensation	Charge	Charge	Charge	Charge	-
Automatic non condensable discharge	Yes	Yes	Yes	Yes	Yes
Multi-pass patent recycle during vacuum	No	Yes	Yes	Yes	No
Technical features					
Manometers	63 mm class 1,6	80 mm class 1	80 mm class 1	80 mm class 1	80 mm class 1
Tank manometer	63 mm	40 mm	40 mm	40 mm	40 mm
Service hoses	244 cm / SAE-J2196	244 cm / SAE-J2196	244 cm / SAE-J2196	500 cm / SAE-J2196	244 cm / SAE-J2196
LCD backlit display	Yes / 80 digits	Yes / 80 digits	Yes / 80 digits	Yes / 80 digits	Yes / 40 digits
Guided programme	20 languages	20 languages	20 languages	20 languages	20 languages
Printer	Optional	Optional	Standard	Standard	Optional
High performance hermetic compressor	1/4 HP 9cc	1/3 HP 14cc	1/3 HP 14cc	5/8 HP 22cc	1/4 HP 9cc
Super-cooled condenser	Yes	Yes	Yes	Yes	Yes
Vacuum pump	180 L/min	180 L/min	180 L/min	283 L/min	70 L/min
Large capacity refrigerant tank	10 Kg	20 Kg	20 Kg	35 Kg	8 Kg
Scale resolution	+/- 5 gr	+/- 5 gr	+/- 5 gr	+/- 5 gr	+/- 5 gr
Oil bottles	2 x 250 ml with quick coupler	2 x 250 ml with quick coupler	2 x 250 ml with quick coupler	2 x 2000 ml with quick coupler	2 x 250 ml with quick coupler
UV dye bottle	-	-	50 ml	-	-
Filter dryer high performance	710 cc	710 cc	710 cc	710 cc	300 cc

* available also with 115V 50/60Hz power supply

A/C DIAGNOSTIC



WHAT DOES A/C DIAGNOSTIC MEAN?



A/C DIAGNOSTIC TRIANGLE

The vehicle A/C system can be complex and consequently repair and diagnostic procedures difficult.

There are three different diagnostic points of view when analyzing an air conditioning system:

- thermodynamic
- electronic
- refrigerant purity

ROBINAIR A/C DIAGNOSTIC

Robinair provides different tools for each A/C Diagnostic triangle corner, giving its customers a complete range of tools for the total A/C diagnostic system:

- Tecnoclim Pro Plus analyzing thermodynamic performance
- Smart Module A/C analyzing electronic parameters
- Refrigerant Identifier analyzing refrigerant purity



A/C DIAGNOSTIC



RA007-PLUS · TECNOCLIM PRO PLUS AIR CONDITIONING DIAGNOSTIC TOOL

Self powered R134 Automotive air conditioning diagnostic tool, TECNOCLIM PRO PLUS allows measurements, monitoring, and automatic diagnostic of the full system's cold loop, of each of its components.

Intuitive and simple to use, it allows, through its USB PC connection, to store and print out detailed diagnostic reports.

MEASUREMENT MODE:

- High pressure, low pressure, refrigerant fluid temperatures (4 inputs), ambient and vent air temperatures & hygrometry displays
- Simultaneous, graphical, or detailed data
- Recording and printing functions

MONITORING MODE:

- A/C system efficiency
- Condenser monitoring
- Compressor monitoring
- PWM controlled compressor monitoring and simulation (optional)
- Refrigerant fluid load level monitoring
- Expansion valve, orifice tube and evaporator monitoring
- Linear pressure sensor monitoring and simulation 0-5 V (optional)

DIAGNOSTIC MODE:

- Fully guided procedure
- High and low pressure, high and low refrigerant fluid temperatures, initial conditions, efficiency (ventilated air), over heating, and under cooling displays
- Automatic analysis and interpretation of measurement's results in the form of « probable fault reasons »
- Customer diagnostic report print-out

GENERAL FEATURES

Power supply	Internal battery (autonomy 6 to 8 h) or using vehicle's battery (from 9 to 38 V)
Display	Back-lit graphical screen (240x320)
Communication	USB type 1.1 PC connection (records storage and printing management software provided)
Presentation	Plastic case with anti-shock buffer, suitcase with user guide, USB cable and PC connection software and drivers
Accessories	4 thermocouple sensors, 1 temperature / hygrometry wireless sensor, LP/HP valve adapter, fixing strap, mains battery charger, linear pressure sensor's extension (optional)
Temperature	Use: from 0 to 50 °C; Storage: from -20 to 60 °C

MEASUREMENTS

Voltage measurement/simulation	Range 0 - 5 V. Reading/simulation resolution: 0.01 V. Accuracy: 0.1 %
Frequency and RCA measurement/ simulation	Frequency range from 10 to 500 Hz (resolution 1 Hz) RCO range from 5 to 95 % (resolution 1%)
Temperatures	THR sensor : from -10 °C to +50 °C TK sensor: from -30 °C to 120 °C
Hygrometry	THR sensor: from 5 to 95 %
High pressure	Range : from 0 to + 31 bar - Resolution 100 mbar
Low pressure	Range : from 0 to + 8 bar - Resolution 10 mbar



AC5041 · AC SMART MODULE FOR AC EOBD DIAGNOSTIC

The Smart Module A/C is a powerful A/C system electronic diagnostic tool, designed to connect the ECUreader cable of vehicles with any full desktop pc, laptop pc or tablet touch screen. Continuously updated, it is capable of diagnosing electronic air conditioning systems of the latest European, Korean, Japanese and American vehicles.

Diagnostic procedures:

- Error reading and cancellation
- Real time parameters
- Activator tests
- Adjustments/base settings/programming
- EOBD/OBD II diagnostics (European Directive 98/69CE)
- Errors display
- Help menu

TECHNICAL FEATURES

- USB 1.1 Port and RS232 serial port for PC connection
- Wireless for Bluetooth PC connection
- Adapter plug 16-pin EOBD/OBD-II standard connector (SL31390+SL31391)
- 230 VAC 50 Hz power supply or 8 - 42 V car battery
- Internal battery NiMH 4 x 1,2 V AA
- Operating temperature 0 to 40° C
- Dimensions 195 x 140 x 45 mm
- 3 led for operating status
- Anti shock thermoformed structure
- Weight 700 g



AC5032/E · SMART CARD AC5041 UPDATE

No time limit A/C diagnostic
ECUreader software.

A/C DIAGNOSTIC



RA16009 · REFRIGERANT IDENTIFYER

How Pure is Your Refrigerant?

Most technicians never question the purity of virgin refrigerant, and most assume the refrigerant in a vehicle is “pure enough” unless the A/C system has a mysterious cooling problem.

If a technician has no way of checking the refrigerant before they pull it out of a customer's vehicle into their recovery equipment it may contaminate their service equipment as well as other vehicles that are serviced with the contaminated equipment.

The best defence against unknown refrigerant and the risks associated with unknown refrigerant is a refrigerant identifier.

With the new Robinair 16009 DiscovR 134a refrigerant identifier you can:

- Protect your A/C service equipment.
- Know whether or not you have acceptable R134a refrigerant before servicing the vehicle with the DiscovR refrigerant identifier.
- Guard against costly recovery equipment repairs.

SPECIFICATIONS

- Refrigerant: R134a
- Input Power: 12 VDC
- Accuracy: Pass/Fail - 95% pure R134a
- Air Detection: Yes
- Approvals: SAE J1771 - Pending
- CE - Approved



RA43310 · A/C PERFORMANCE TESTER

This dual probe digital thermometer analyzes the A/C system ambient and vent temperatures and indicates if cooling performances are acceptable. Suspends from hood latch or attaches to your manifold gauge set and performs instant performance test under any ambient temperature condition.

- Celsius & Fahrenheit readings
- 1 ambient temp probe with aligator clamp
- 1 air vent temp probe
- Auto shut-off feature
- 9 volts battery powered



RA43230 · DIGITAL THERMOMETER 180°

RA43240 · DIGITAL POCKET THERMOMETER

	RA43230	RA43240
Celsius or Fahrenheit selectable option	Yes	Yes
Temperature range	-50° to 150 °C	-40° to 200° C
Accuracy	± 1° C between -10° and 100° C	± 1° C between -10° and 100° C
Display resolution	1°	0.1° F/C throughout range
Sampling time	1 sec.	1 sec.
Auto Power off	Yes	Yes
Battery	One 1.5 Volt, size LR44	One 1.5 Volt, size LR44



TIF7620 · IR THERMOMETER PRO

Innovative optical lens-accurate measurement; wide temperature range.

Laser pointer-easy to define the target area to be measured.

Set alarm temperatures (low and high temperatures).

Difference between MAX and MIN (DIF), and average (AVG) modes are available.

The new TIF IR thermometer incorporates visual low battery indication and simple operation of two "AAA" batteries.

SPECIFICATIONS

- Measurement range: -60 to +760 °C
- Accuracy (15-35 °C): 1°C
- Response time: 0,5 sec.
- Distance to spot: 20:1
- Battery life: 18 hours
- Dimensions: 175 x 39 x 72 mm
- Weight: 180 gr

A/C DIAGNOSTIC

THE IMPORTANCE OF MEASURING VACUUM

Moisture in an A/C system is a serious problem for the technician – it causes freeze-ups and corrosion, seriously damaging the A/C system. The most effective way to eliminate moisture is to create a vacuum deep enough to boil it away. For that, you need a high vacuum pump, and a tool to tell you when the vacuum is deep enough to adequately dehydrate the system. The most economical, effective, and easy-to-use option is an electronic thermistor vacuum gauge. It eliminates the guesswork by measuring the vacuum to precise micron levels, ensuring the system is leak-free, moisture-free, and ready to be recharged. Although originally developed as a laboratory instrument, today's thermistor vacuum gauges are rugged enough – and reliable enough – for field service work.



RA14777 · THERMISTOR VACUUM GAUGE

The RA14777 electronic vacuum gauge is accurate enough to clearly indicate when the system is free from moisture and ready for recharging.

Specifically designed for use with a high vacuum pump, the RA14777 measures to 10 microns.

SPECIFICATIONS

- Power supply: One 9 V battery
- Vacuum fitting: 1/4" MFL
- Length of Lead: 1,83 mt
- Dimensions: 7,2 x 6,35 x 2,54 cm

A/C SERVICE UNITS ACCESSORIES



ROBINAIR[®]
AN SPX BRAND

A/C SERVICE UNITS ACCESSORIES



AC550COVER · DUST COVER

Fits all AC450PRO, AC550PRO, AC650PRO, AC490PRO, AC590PRO, AC690PRO, AC790PRO. Protect your unit with a silver PVC cover.



ACT780 · SAFETY KIT

Premium quality industrial gloves made of a high-performance natural rubber with fully dipped rough finish grip and rolled cuff. This equipment complies with European Directives 89/668EEC. EN388 Standards.

Mechanical risks protection. Goggles protect against liquid splashes and large dust particle. Hard coated polycarbonate lens, 4 indirect vents in frames, elastic head band.



650-STP · PRINTER FOR ROBINAIR SERVICE UNITS

Easy to install. Printer for all AC450PRO, AC550PRO, AC490PRO, AC590PRO.

3000-STP · PRINTER FOR BABY COOL

Easy to install.
Printer for all ACM3000 units.

5607069 · PRINTER PAPER

One roll printer paper for all AC450PRO, AC550PRO, AC650PRO, AC490PRO, AC590PRO, AC690PRO, AC790PRO and ACM3000-ROB service units.



ALFA ROMEO
AUDI
BMW
CITROEN

REFRIGERANT TYPE:
R134a
QUANTITY:
740gr +-10gr

OIL TYPE:
RL PAG 68
VISCOSITY:
ISO68



AC3139/08 · COMPLETE AC DATABASE FOR AC400PRO SERIES

Smart Cartridge for all AC400PRO - AC450PRO - AC490PRO. It has a complete coverage of refrigerant and oil capacities for vehicles. Covers vehicle models years 1994 - 2007. Database contains more than 4000 A/C systems.

AC3140/08 · AC DATABASE UPDATE

Smart Cartridge to update new vehicles AC database installed in all models AC400PRO, AC450PRO, AC550PRO, AC650PRO, AC490PRO, AC590PRO, AC690PRO, AC790PRO.



AC3141/T · DIAGNOSTIC KIT

Smart Cartridge to enable the diagnostic software for all AC400PRO, AC450PRO, AC550PRO, AC650PRO, AC490PRO, AC590PRO, AC690PRO, AC790PRO with installed A/C database. It is a guide for analyzing system failures and solutions provided with A/C performance tester (RA43310- dual probe thermometer).

A/C SERVICE UNITS ACCESSORIES



ACM3139/08 · COMPLETE A/C DATABASE FOR ACM3000-ROB

Smart cartridge for all ACM3000 models.
It has a complete coverage of refrigerant and oil capacities for vehicles.
Covers vehicle models years 1994 - 2007.
Database contains more than 4000 AC systems.



PAG LUBRICANTS

Polyalkylene glycol (PAG) oils have been especially developed for use in automotive A/C systems which use the refrigerant R134a.

Technical specifications:

- Extremely high chemical, thermal and hydrolytic stability
- Specially developed for compressor manufacturers, meets all required specifications

PAG46 Pag oil 46 - 250 ml

PAG100 Pag oil 100 - 250 ml

PAG150 Pag oil 150 - 250 ml



RA16286B · UV DYE

240 ml A/C UV universal dye OEM & SAE approved
OEM-approved and SAE-certified dye. Enough dye quantities for 32 applications in a squeezable dosing bottle. Universal for R12 & R134a applications.



PREMIUM HIGH VACUUM PUMP OIL

The performance of your pump depends largely on the quality and purity of the vacuum oil. Robinair's oil is engineered to maintain maximum viscosity at high running temperatures and to improve cold weather starts. To keep the pump operating at peak efficiency, change the oil frequently. Moisture and other contaminants can quickly deteriorate the purity of the oil, thinning the oil, and reducing the pump's ability to reach deep vacuum conditions.

Thermally Stable · Laboratory tests prove that Robinair oil is more thermally stable in comparison to other leading brands, which means it resists breaking down due to heat for a longer period of time.

Lower Moisture Content · Robinair oil has a lower moisture content than other oils. Moisture degrades the oil purity, thinning it and reducing the pump's ability to reach a deep vacuum.



5604052 Vacuum pump oil: 1 bottle 600 ml

5604052PACK Vacuum pump oil: 12 bottles 600 ml



5604053 Vacuum pump oil: 1 bottle 5 lt

5604053PACK Vacuum pump oil: 4 bottles 5 lt



FILTER DRYER

Replacement filter to keep recovery and recycling unit operating at peak efficacy especially blended for maximum acid moisture removal application.

5117399 Filter dryer for Robinair service machine

5117486 Filter dryer for ACM3000 - Baby cool machine



HOSES EXTENSION

RA245VSK Hoses extension 2.44 m

RA500VSK Hoses extension 5 m

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A/C SERVICE UNITS ACCESSORIES

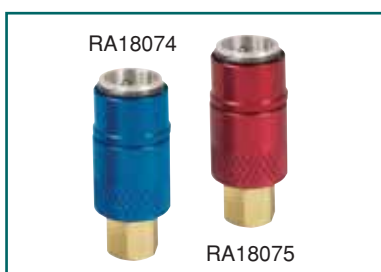
QUICK COUPLERS FOR AUTOMOTIVE R134A

Service couplers connect to our special service hoses allowing access to service ports on automotive R134a A/C systems. Six-ball couplers have an integral safety sleeve which protecting against injury and refrigerant loss if the coupler is disconnected under pressure. The compact design easily fits into tight areas.



RA18190A Quick coupler LP 90°

RA18191A Quick coupler HP 90°



RA18074

RA18074 Quick coupler LP 180°

RA18075 Quick coupler HP 180°

RA18075



ATC6002

SPECIAL SERVICE PORT ADAPTERS

ACT6002 HP service port adapter (Volvo-BMW)
HP extension service port

ACT6003 HP - LP adapter (Renault)
Service port converter

ATC6003



ATC6005

ATC6006

ATC100731

ACT6005 Audi adapter (old models)

ACT6006 Volvo adapter (old models)

ACT100731 R12 adapter



RA13145 · UNIVERSAL CORE REMOVER SET

Robinair's standard valve core remover is available complete with six replacement valve cores which store in the tool body.

FLUSHING



ROBINAIR[®]
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FLUSHING



IMPORTANCE OF A/C FLUSHING PROCESS

Flushing is a very important phase of the Mobile Air Conditioning system maintenance.

Flushing must be performed when the system is contaminated or debris in the system is suspected from the compressor or other failures.

When A/C compressors fail, bad things can happen. The typical A/C compressor is built like a small reciprocating engine. It has cylinders, pistons, piston rings, valves, bearings, etc. When a compressor fails it often sheds fragments of these internal components. This can happen all at once or slowly over time. Little bits of compressor can end up in the condenser, hose assemblies, orifice tube/expansion valve, evaporator and accumulator/filter-drier.



ROBINAIR A/C FLUSHING SYSTEM

Recently Car manufacturers have given precise guidelines for all the procedures required after the substitution of an A/C system component. The flushing kit for the A/C reloading stations has been developed in collaboration with the most important car manufacturers. Thanks to total automation and a complete range of adapters and bridges for expansion valves these kits are an excellent solution for reducing labor costs.





ACT550-SFK-B · PROFESSIONAL FLUSHING KIT FOR A/C SERVICE UNIT

This kit contains accessories & all necessary adapters for adding the flushing function on the Robinair AC service stations.

COMPOSITION

- ACT550: Installation kit
- ACT2502-117: Professional adapters kit



ACT550-SFK · STARTER FLUSHING KIT FOR A/C SERVICE UNIT

COMPOSITION

- ACT550: Installation kit
- ACT2502-104: Starter adapters kit



ACT550 · INSTALLATION KIT

It contains manual valve, flushing tank, filter dryer, sight glass, hose connection R134a, two service hoses SAE J2096.



ACT2502-104

ACT2502-117

ACT2502-104 · STARTER ADAPTER KIT

Basic case of adapters (4 pcs)

ACT2502-117 · PROFESSIONAL ADAPTER KIT

Complete case of adapters (50 pcs)

NEW ADAPTERS (optional)

ACT1800 - 460 By - pass filter dryer (VW group)

ACT2602 - 273 TXV valve bridge (VW group)

ACT2600 - 185 Large cone for universal adapter

ACT2602 - 274 TXV valve bridge S class (Mercedes)

ACT2602 - 275 TXV valve bridge C class (Mercedes)

LEAK DETECTION





RA504075 · NITROGEN KIT

This equipment is used for pressurizing the A/C system with a neutral nitrogen. With a soap solution or an ultrasonic leak detector it is also possible to localize leaks. This kit is also necessary for removing all traces of solvent from an A/C system after flushing.

COMPOSITION

- Trolley for nitrogen tank
- 0 - 38 bar pressure regulator & manometer



RA16600 · ELECTRONIC LEAK DETECTOR

For all CFC, HCFC, and HFC Refrigerants

Robinair's electronic leak detector is ergonomically designed to fit in your hand. Holding it is natural and comfortable, and it fits into tight spots, so you can thoroughly check for leaks.

RA16600 is packed with features that help you pinpoint leaks quickly. One-Hand Operation – The 40 cm gooseneck probe holds its position so you can operate the detector with one hand. Audible and Visual Leak Indicators – An alarm increases in frequency as the tip gets close to a high concentration of refrigerant. LEDs are especially helpful when you're working in a noisy environment.

Threshold Balancing Control – Gives you infinite control for eliminating background contamination, so you can zero in on the leak site.

Volume Control – Adjust the audible leak signal to the volume that's right for the background noise in the shop or at the job site.

SPECIFICATIONS

- Meets SAE J1627, 14 gr / year for R134a, R22, R12
- Ultimate sensitivity less than 3gr/year
- Instantaneous sensing response time
- Less than 2 seconds warm-up time
- Operating temps 0° to 40° C
- 41 cm stainless gooseneck probe
- 4 x alkaline batteries powered 25 hours life time
- Dimension 22 x 8 x 5 cm
- Weight 520 gr
- Blister packing

LEAK DETECTION

TIF ELECTRONIC LEAK DETECTION

The revolutionary new “Generation X” line of TIF has not only changed the way leak detectors look, but the way to look at leak detectors. Innovative MPC circuitry and Advanced Digital Signal Processing monitor the sensing tip up to 2000 times per second. Automatic reset, true mechanical pump, and visual indicators speed and simplify leak searches.

ALL MODELS FEATURE

- Microprocessor controlled circuit with Advanced Digital Signal Processing
- Detects ALL halogenated refrigerants.
- Certified to SAE J1627
- Variable frequency audible alarm
- CE approval
- UL classified
- Constant power indication
- Cordless and portable; operates on two C-cell batteries
- 35.5 cm flexible stainless steel probe with Teflon liner
- Carrying case included, optional holster
- Optional reference leak source



TIFRX-1A · REFRIGERANT LEAK DETECTOR

- Six-segment visual leak size indicator
- True mechanical pump provides positive airflow through sensing tip
- High and low sensitivity levels
- One touch reset
- Tactile keypad controls



TIFXP-1A · REFRIGERANT LEAK DETECTOR

- Tri-color, six-segment visual leak size indicator displays 18 alarm levels
- Seven levels of sensitivity adjustment provide an increase of up to 64x
- Battery test function with true voltage indication
- Mute feature silences audible alarm
- True mechanical pump provides positive airflow through sensing tip
- One touch reset
- Tactile keypad controls



TIFZX-1E · HEATED PENTODE REFRIGERANT LEAK DETECTOR

Ergonomic hand held equipment based on heated Pentode technology (Patented) for R12, R22, R134a refrigerants (CFC, HFC, HCFC). Audible and visual leak indicators, dual adjustable sensitivities, quick response sampling pump.

SPECIFICATIONS

- Patent pending Heated Pentode™ sensor technology
- Refrigerant specific detection
- Detects ALL halogenated refrigerants at levels below 3 gr/yr as low as 1,4 gr/yr. for R-12
- Tri-color visual leak size indication
- Tactile keypad controls with one touch reset and adjustable sensitivity
- True mechanical pump provides instant response and clearing
- Sensor failure indication
- Carrying case and re-charger included
- Ni-MH rechargeable batteries
- Revolutionary design
- Certified to SAE J1627
- Flexible stainless probe (40 cm)
- CE approved



RA16455 · ULTRASONIC LEAK DETECTOR

TruTrack is an ultra-sensitive leak detector, which uses ultrasound technology to “hear” the sound of a leak. It makes finding leaks fast and accurate, because it eliminates annoying false triggering and interference. Also, there’s no need to recalibrate for background noise.

TruTrack is the perfect complement to other forms of leak detection. It’s effective on systems that are pressurized or under vacuum, because it senses the frequency of refrigerant escaping. Larger leaks may require the use of UV or electronic leak detection systems.

USE TRUTRACK TO IDENTIFY

- Refrigerant leaks
- Pressurized gas leaks
- Vacuum leaks
- Dry nitrogen gas leaks
- Steam leaks
- Failing solenoids, valves, bearings

SPECIFICATIONS

- Microprocessor controlled
- 9 volts battery powered
- Dimension 11,5 x 8,6 x 1,9 cm / Weight 140 gr
- Molded transport case & instructions
- Headphones

LEAK DETECTION



UV LEAK DETECTION

Robinair's ultraviolet leak detection kits help you find leaks fast, because you can actually see the leak. You don't have false triggering or background contamination to contend with, as you do with other types of detectors. The dye combines with the refrigerant lubricant and migrates out at the leak, where it is illuminated in the beam of the UV light.

UV leak detection can be used for both automotive and HVAC-R systems, and dyes won't harm the system.

- High intensity beam makes even small leaks visible and is bright enough to be used in daylight.
- Rugged case and a shock-absorbing mounting mechanism protect the lamp during use and storage.
- Designed with super luminescence, so leaks are easy to spot, even small ones.
- Won't affect the viscosity of refrigerant lubricants and is safe for the entire A/C system.



RA16352EU · UV LEAK DETECTION SET

COMPOSITION

- Halogen UV lamp 12 volts 60 watt, vehicle battery connection about 3000 hours life time
- UV shield glasses
- UV dye injection gun with connection for R134a
- 4 UV universal dye cartridges 30 ml for 5 applications each
- Spray 120 ml dye cleaner
- Molded transport case



RA16380EU · UV LEAK DETECTION SET - 12 LEDS LAMP

COMPOSITION

- UV 12 LEDs lamp rechargeable, 3 hours autonomy and about 100.000 hours life time
- Smart power charger
- UV shield glasses
- UV dye injection gun with connection for R134a
- 6 UV universal dye cartridges 7,5 ml for 1 application each
- Spray 120 ml dye cleaner
- Molded transport case



RA16356 · 4 X 30 ML UNIVERSAL UV DYE CARTRIDGES

Universal dye for UV leak detection. Each cartridge contains 30 ml dye for 5 applications compatible with R12 & R134a air conditioning systems. This type of packaging prevents fumbling or messy spills.

To use with the Robinair injection kit RA16355, RA16352EU, RA16380EU.



RA16357 · UNIVERSAL DYE 6 X 7.5 ML CARTRIDGES

Universal dye for UV leak detection. Each cartridge contains 7,5 ml dye for 1 application compatible with R12 & R134a air conditioning systems. This type of packaging prevents fumbling or messy spills.

To use with the Robinair injection kit RA16355, RA16352EU, RA16380EU



RA16355 · UV DYE INJECTOR

UV injection kit for R134a A/C systems.

COMPOSITION

- Injection gun with R134a hose and R12 adapter
- 4 universal A/C dye twist-on cartridges



RA16256 · SYRINGE TYPE INJECTOR

Use these syringe-type injectors to inject oil into a fully pressurized A/C system. Just fill the barrel with the amount of oil needed (measurements are marked on the barrel body). Connect the injector fitting to the low side access port on the vehicle and press the plunger to deliver the oil charge. Use ACT100731 converter for R12 applications. Not recommended for UV dye injections.

COMPOSITION

- Syringe-type injector
- 134a low side quick coupler adapter
- Blister packing

LEAK DETECTION



RA16276 · 12 X 7,5 ML UNIVERSAL DYE

Universal dye for UV leak detection. Contains 12 bottles of 7,5 ml dye each, compatible with R12 & R134a air conditioning systems for 12 applications.



RA16255 · 6 X 7,5 ML UNIVERSAL ENGINE COOLANT UV DYE

UV dye for leak detection on the engine cooling system. Contains 6 bottles of 7,5 mll dye each for 6 applications.



RA16263 · AC UV DYE CLEANER

Cleans fluorescent dye from systems, components and surfaces. Just spray on area and wipe clean. Safe on all metals and most plastics.



COOLTOOLS UV LAMPS

A high intensity lamp which makes even the smallest leak easy to spot. The durable design stands up to everyday use and the pistol-grip design is comfortable to hold.

RA16296 · HALOGEN UV LEAK DETECTION LAMP

12 volts UV leak detection, UV shield/enhancer glasses, power cord with battery clips, CE approved.

RA16345EU · RECHARGEABLE 12 LEDS UV LAMP

Cordless/rechargeable true UV LED light battery charger, and UV enhancing glasses.

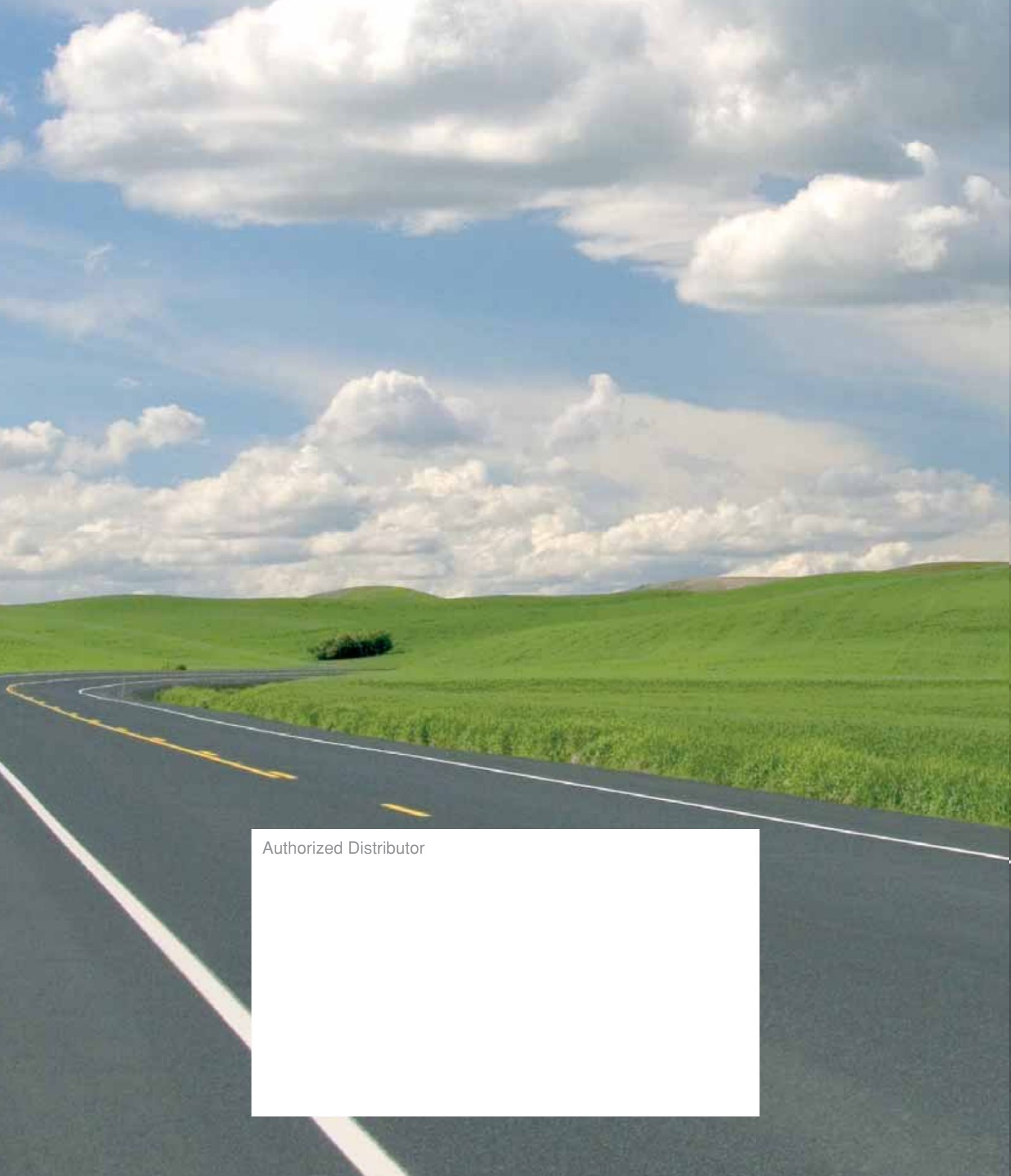


RECHARGEABLE STAR BRITE 1 LED UV LAMPS

Professional compact leak detection lights deliver big performance, utilizing a 1-Watt Star Brite Lamp, the latest in high intensity LED technology. Compatible with all UV leak detection dyes. The most powerful lamps of their class in the world.

Models available:

- **ACT4023464**
- **ACT845**



Authorized Distributor

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