R456a compatible

# A/C product range

Since 1956, Robinair has been one of the global leaders of automotive air-conditioning refrigerant recovery, recycling and recharge tools, equipment and accessories.

## Expertise and a broad product portfolio for R134a and R1234yf systems:

## Service speed, high adaptability and maximum efficiency – the key for a successful air conditioning service and maintenance

Air conditioning systems are part of standard vehicle maintenance routine programs – and it is a matter of fact that mechanics are often obliged to solve problems relating to A/C system efficiency. Troubleshooting requires time and the scarce availability of A/C system data for maintenance best practice and increased refrigerant costs can harm the profitability of your workshop. Innovative A/C equipment designed based on customers' experience is the key to success: the new range of Robinair A/C units perfectly combines unique and different functions and needs – for all workshops.

The new A/C platform with fully-automatic functions offers a wealth of important and exclusive features, such as:

- 'Deep Recovery', which reduces maintenance times for A/C systems by 20 %. A quick return on investment.
- Efficient and environmentally-friendly use of resources thanks to it close to 99 % refrigerant recovery rate of the refrigerant from the vehicle.
- An innovative oil injection system avoids the danger of lubricant cross-contamination and additional repair costs.

Compatible with R456a - what does it mean:

- All our R134a air conditioning service units (except the AC790PRO) are compatible with R456a
- The equipment is compatible with both refrigerants R134a and R456a. However, it is recommended not to mix the refrigerants.
- No hardware changes needed but requires mandatory software update xxx.045.047

## Air Conditioning Service specialist since 1956

As long as there's been air conditioning, there's been Robinair, one of the global leaders in automotive and HVAC/R air conditioning (A/C) refrigerant recovery, recycling and recharge tools, equipment and accessories. Vehicle manufacturers (OEMs), dealership service departments, workshops, industrial and commercial contractors have turned to Robinair for A/C service products since 1956.

# AC1234-8i and AC1x34-7i

## Fully automatic air conditioning service units

Completely fully automatic service units meet the highest requirements for servicing air conditioning in cars and commercial vehicles. Compatible with hybrid A/C systems meeting German car manufacturer specifications, SAE and European standards.

**Highlights:**

- Embedded refrigerant identifier (AC1234-8i)
- Close to 99 % recovery rate (Deep Recovery)
- Mobile app
- Dual stage vaccum pump (170 l/min)
- $N_2H_2/N_2$ leak test embedded
- Premium accuracy: 15 grams charge accuracy
- Embedded A/C system vehicle database
- Compatible with Bosch Connected Repair and Asanetwork
- Quick and easy access to internal components
- Innovative PAG/POE oil injection
- Compatible with PAO and PVE oil types as well
- Select between fully automatic service mode or single service mode
- No manual valves
- R456a refrigerant compatibility as an alternative to R134a (AC1x34-7i)

**AC1234-8i** (SP00000164): Fully automatic A/C unit R1234yf with Refrigerant Identifier
**VAC1234-8i** (SP00000166): Fully automatic A/C unit R1234yf with Refrigerant Identifier for VW
**RAC1x34-8i** (SP00000170): Fully automatic A/C unit R134a with Refrigerant Identifier for BMW
**RAC1234-8i** (SP00000168): Fully automatic A/C unit R1234yf with Refrigerant Identifier for BMW

**AC1x34-7i** (SP00000161): Fully automatic A/C unit R134a/R456a

**The best in class in R134a/R456a and R1234yf air conditioning service units**

# AC1234-5i and AC1x34-5i

## Fully automatic air conditioning service units

Completely fully automatic unit for servicing air conditioning in cars and commercial vehicles with R134a/R456a and R1234yf refrigerant. Compatible with hybrid A/C systems meeting European standards ensuring correct and environmentally friendly handling of refrigerant.

**Highlights:**

- Close to 99 % recovery rate (Deep Recovery)
- Dual Stage vacuum pump 170 l/min
- PAG/POE oil injection
- Compatible with PAO and PVE oil types as well
- Premium accuracy: 15 grams charge accuracy
- Embedded A/C system vehicle database
- Quick and easy access to internal components
- Select between fully automatic service mode or single service mode
- No manual valves
- R456a refrigerant compatibility as an alternative to R134a (AC1x34-5i)

**AC1234-5i P** (SP00000177): Fully Automatic A/C unit R1234yf with printer
**AC1234-5i RI** (SP00000178): Fully Automatic A/C unit R1234yf with printer and Refrigerant Identifier

**AC1x34-5i P** (SP00000180): Fully automatic A/C unit R134a/R456a with printer

**The new reference for R134a/ R456a and R1234yf air conditioning service units**

## Technical data, primary functions

| | AC1234-8i / AC1x34-7i | AC1234-5i / AC1x34-5i |
|---|---|---|
| Refrigerant Type | R1234yf / R134a / R456a | R1234yf / R134a / R456a |
| Operating mode | Fully automatic | Fully automatic |
| **Functions** | | |
| Refrigerant recovery | Automatic | Automatic |
| Recovery performance | Up to 99 % | Up to 99 % |
| Refrigerant identifier | AC1234-8i Yes | Optional<br>(embedded for AC1234-5i RI ) |
| Waste oil recovery | Automatic with electronic scale | Automatic with electronic scale |
| Vacuum | Automatic | Automatic |
| Vacuum leak test | Automatic | Automatic |
| Pressure leak test (pre-charge) | No | No |
| Pressure leak test ($N_2$ / $N_2H_2$) | Yes | Optional |
| Hybrid A/C system ready | Yes | Yes |
| Oil injection | PAG and POE*<br>Automatic with electronic scale | PAG and POE*<br>Automatic |
| UV dye injection | Automatic with electronic scale | Automatic |
| Refrigerant recharge | Automatic with electronic scale | Automatic with electronic scale |
| Flushing function | Optional | Optional |
| Embedded printer | Yes | Yes |
| Air purge system | Electronically controlled | Electronically controlled |
| **Technical specification** | | |
| HP & LP panel valves | Valveless | Valveless |
| HP & LP pressure gauges | 100 mm pulse-free Class 1 | 100 mm pulse-free Class 1 |
| Tank pressure gauges | Digital | Digital |
| Service hoses length | 2.5 m (5 m optional) | 2.5 m (5 m optional) |
| Display | 7"<br>color display | 4,3"<br>color display |
| Compressor | 1/4 HP | 1/4 HP |
| Vacuum pump | 170 l/min (6 CFM) | 170 l/min (6 CFM) |
| Refrigerant tank capacity | 19.5 kg (R1234yf) / 21.5 kg (R134a) | 19.5 kg (R1234yf) / 21.5 kg (R134a) |
| New oil bottles | 2 x 250 ml (hermertically sealed) | 2 x 250 ml (hemertically sealed Option) |
| Waste oil bottles | 1 x 250 ml | 1 x 250 ml |
| Uv dye bottle | 1 x 250 ml (hermertically sealed) | 1 x 250 ml (hermertically sealed Option) |
| Dimensions in cm | 105 x 75 x 77 | 105 x 75 x 77 |
| Weight | 112 kg | 112 kg |
| Power Supply | 230 V 50/60 Hz | 230 V 50/60 Hz |
| **Accessories** | | |
| Vehicle database | Yes | Yes |
| Programmable user database | Yes | Yes |
| A/C system performance test | Yes | Yes |
| Vehicle flushing adapters kit | Optional | Optional |
| USB connection | Yes | Yes |
| Wireless connection | Yes | Optional |

* PAO and PVE compatibility as well

## Robinair A/C service units with Deep Recovery for high refrigerant recovery rates

**The Deep Recovery function of Robinair A/C service units increases the refrigerant recovery rates and reduces servicing times**

Almost all vehicle manufacturers recommend specific service intervals for air conditioning systems. A/C service includes functional and visual inspection as well as refrigerant replacement. During the standard procedure, the compressor of the A/C service unit recovers the refrigerant and stores it at its own tank. In doing so, up to 95 % of the refrigerant is recovered in several steps. It is released through the venting outlet of the vacuum pump during the vacuum phase. Due to this particular loss of refrigerant, resulting in an increased environmental impact and a timeconsuming procedure, an optimized function was developed: Deep Recovery.

**Robinair A/C service units with Deep Recovery**

Robinair AC1234-8i, AC1x34-7i, AC1234-5i and AC1x34-5i service units are already equipped with the Deep Recovery function. In a second recovery stage after the standard procedure, the vacuum pump extracts as much of the remaining refrigerant as possible. Depending on the A/C configuration and its operating conditions, this allows recovery of up to 99 % of the refrigerant. In the subsequent vacuum phase, only a very small amount of remaining refrigerant is released into the atmosphere.
Especially in the case of expensive R1234yf refrigerant, this means a significant cost reduction. Another advantage of Deep Recovery: the vacuum pump starts dehumidifying the air conditioning system as early as possible, during the refrigerant recovery. For workshops this means additional time savings when performing A/C services, significantly reducing any additionally required vacuum phase. A/C refilling can thus be started earlier.

**Recovering more refrigerant more effectively and protecting the environment**

In this manner, the Robinair A/C service unit performs 2 phases (refrigerant recovery and A/C system vacuum) in one stage. Waiting times for pressure build-up are also reduced during Deep Recovery. Thanks to this resource-saving procedure, the loss of environmentally-hazardous refrigerant is minimized as well.

**Deep Recovery via vacuum pump**

## AC1234-3i and AC1x34-3i

### Fully automatic air conditioning service units

Robinairs' AC1234-3i is the standard for service units which perform maintenance of A/C systems with R1234yf refrigerant. The AC1x34-3i offers all of the functions required for the professional maintenance of R134a-based vehicle air conditioning systems and can be easily converted to R1234yf unit. Both units carry out automatic refrigerant recovery, recycling and filling and ensure the quick, complete drying of the system. All units are equipped with printer.

**Highlights:**

- Safety ensured and certified for R1234yf use
- Service hoses flushing, conforming to SAE J2843, allows the maintenance of A/C systems for hybrid or electric vehicles
- Optional kit allows to flush the A/C system easily and automatically
- User interface available in 20 languages
- Management and storage of the amount of refrigerant used
- R456a refrigerant compatibility as an alternative to R134a (AC1x34-3i)
- Compatible with PAO and PVE oil on top of standard POE/PAG

**AC1234-3i P** (SP00000157): Fully automatic A/C unit R1234yf with printer
**AC1x34-3i P** (SP00000155): Fully automatic A/C unit R134a/R456a with printer

## AC790PRO

### Automatic air conditioning service unit for heavy duty systems

The AC790PRO is an air conditioning service unit, which is specifically designed to meet bus and truck requirements and is focused on high-capacity, R134abased air conditioners. The unit automatically checks refrigerant recovery, recycling and refilling. Five-meter service hoses make the connection easy in all A/C systems. The two-liter bottle for oil injection and recovery permits management of large quantities of compressor lubricant. The unit has an integrated printer to create a detailed report and makes it possible to provide professional air conditioner servicing for heavy commercial vehicles and buses.

**Highlights:**

- Automatic service process
- Single service process selectable
- Fast and Deep vacuum (vacuum pump 283 l/min)
- Large oil canister (2,000 ml)
- Large internal tank (40 l)
- Long service hoses standard (5 m)
- Liquid pump for charge oil and refrigerant
- Integrated database for both trucks and commercial vehicles
- Integrated flushing program with optional kit
- Multi-phase refrigerant recycling during vacuum phase
- Integrated, guided performance test for A/C system
- Automatic purge of non condensable gas
- Easy internal filter maintenance
- Accessible vacuum pump for easy oil change
- Printer

**AC790PRO** (SP00000051): Automatic A/C unit R134a

**Safe and efficient A/C service with Robinair units**

**The specialist for voluminous air conditioning systems**

# Technical data, primary functions

| | AC1234-3i / AC1X34-3i | AC790PRO |
|---|---|---|
| Refrigerant Type | R1234yf / R134a / R456a | R134a |
| Operating mode | Fully automatic | Automatic |
| **Functions** | | |
| Refrigerant recovery | Automatic | Automatic |
| Recovery performance | Up to 95 % | Up to 95 % |
| Refrigerant identifier | Optional | No |
| Waste oil recovery | Automatic | Automatic |
| Vacuum | Automatic | Automatic |
| Vacuum leak test | Automatic | Automatic |
| Pressure leak test (pre-charge) | No | No |
| Pressure leak test ($N_2$ / $N_2H_2$) | No | No |
| Hybrid A/C system ready | Yes | No |
| Oil injection | PAG / POE* Automatic | Manual (via Keypad) |
| UV dye injection | No | No |
| Refrigerant recharge | Automatic with electronic scale | Automatic with electronic scale and Charge pump |
| Flushing function | Optional | Optional |
| Embedded printer | Yes | Yes |
| Air purge system | Electronically controlled | Automatic |
| **Technical specification** | | |
| HP & LP panel valves | Valveless | 2 |
| HP & LP pressure gauges | 100 mm pulse-free Class 1 | 80 mm pulse-free Class 1 |
| Tank pressure gauges | Digital | 40 mm |
| Service hoses length | 2.5 m (5 m optional) | 5 m |
| Display | 4,3" color display | Backlit LCD |
| Compressor | 1/4 HP | 1/2 HP |
| Vacuum pump | 71 l/min (3 CFM) | 283 l/min (10 CFM) |
| Refrigerant tank capacity | 8.9 kg (R1234yf) / 9.8 kg (R134a) | 35 kg (40 l) |
| New oil bottles | 1 x 250 ml | 1 x 2,000 ml |
| Waste oil bottles | 1 x 250 ml | 1 x 2,000 ml |
| Uv dye bottle | No | No |
| Dimensions in cm | 99 x 69 x 67 cm | 128 x 69 x 69 |
| Weight | 74 kg | 120 kg |
| Power Supply | 230 V 50/60 Hz | 230 V 50 Hz |
| **Accessories** | | |
| Vehicle databse | Yes | Yes |
| Programmable user database | Yes | Yes |
| A/C system performance test | Yes | No |
| Vehicle flushing adapters kit | Optional | Optional |
| USB connection | Yes | No |
| Wireless connection | Optional | No |

* PAO and PVE compatibility as well

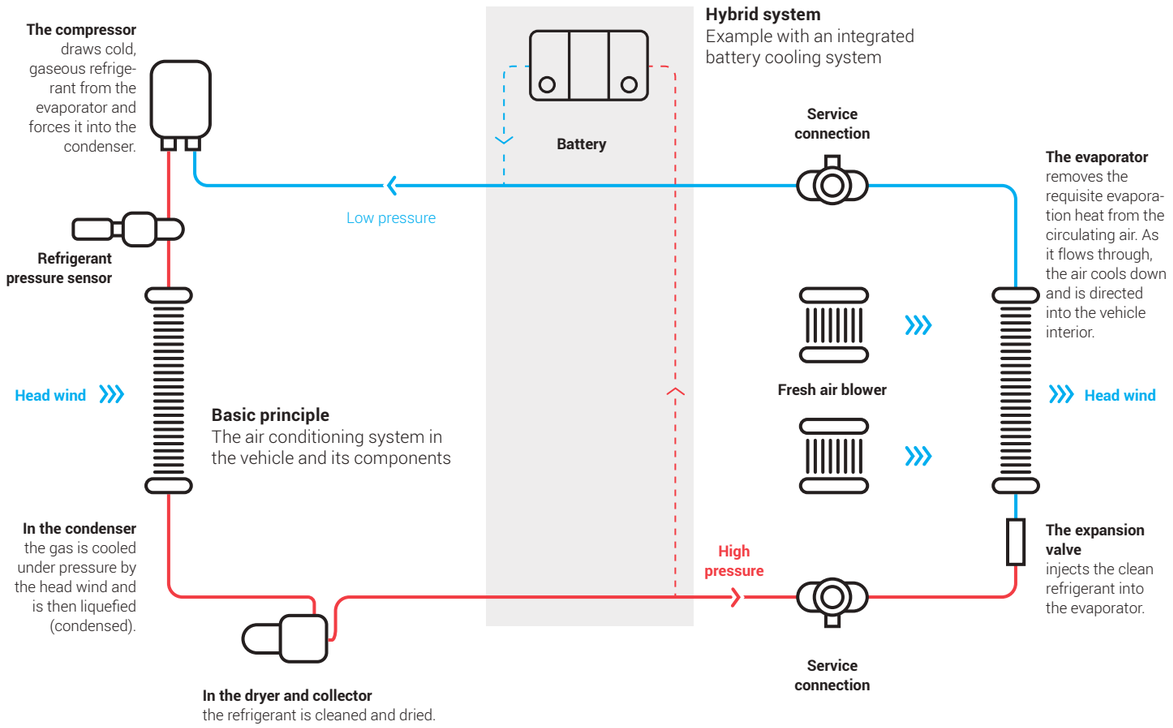
# Fit for the future:
## Air conditioning service with Robinair – also for electric vehicles

Even if the internal combustion engine will continue to accompany us for a long time to come - the number of electric vehicles on our roads is constantly increasing. So one thing is already certain: professional air conditioning service will continue to play a major role in the future. Because in vehicles with electric drives, air conditioning has a central task within thermal management. It not only ensures pleasant temperatures in the interior, but also keeps the battery at the optimum operating temperature during charging and driving - which has a major impact on the vehicle's range and the service life of the battery.

With their innovative oil bottle system, which prevents mixing of different oils, Robinair's new A/C service units are also ideally suited for working on air conditioning systems in hybrid and electric vehicles – so you are optimally equipped for the future!

**Operation and maintenance of the air conditioning system:**
The air conditioner is a system requiring maintenance, which consists of a multitude of components and which has to provide extreme performance during operation: In the circuit between compressor and expansion valve are at different pressures and the coolant changes its path during the process by system its state multiple times – from gaseous to liquid and back again. In addition it must cleaned from impurities and air inclusions in the filter-dryer and extracted moisture will be.

In hybrid or electric vehicles, the battery cooling system will also be integrated into the coolant circuit. This makes the air conditioning system an essential factor for safety and driving comfort and should therefore be examined at regular intervals in order to prevent damage.




# 25700-E
## Contaminated Refrigerant Recovery Machine

The Robinair 25700-E is designed to remove contaminated refrigerant from vehicles that are equipped with R1234yf A/C systems.

**Highlights:**
- Durable, compact, portable design allows users to recovery contaminated refrigerant easily at the vehicle
- Low side hose with R1234yf coupler and black recovery hose included
- Proprietary oil-less compressor is capable of handling both liquid and vapor refrigerant
- Self-purge function effectively removes any remaining refrigerant from the machine
- A high pressure shut-off switch turns the machine off automatically if the pressure rises above 30 bar to protect the equipment Inlet filter screen stops debris from getting inside of the machine
- Operating voltage – 230 V, 50 Hz AC
- 2-1/2» High and low pressure gauges
- 1/2 HP Motor
- Weight 17 kg
- Dimensions 33 x 23 x 48 cm
- Meets all requirements of SAE J2851

**25700-E** (SP01977710): Contaminated Refrigerant Recovery Machine

## Refrigerant identifyer

**16009** (SP00101054)
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 Robinair 16009 R134a 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:**
- Input power: 12 V DC
- Accuracy: pass/fail – 95 % pure R134a
- Air detection
- Approvals: SAE J1771 – pending
- CE-approved

16009

## Robinair accessories program

**ELECTRONIC TEST INSTRUMENTS**
- Refrigerant Identifier

**FLUSHING KITS**

**LEAK DETECTION**
- Electronic leak detectors
- Nitrogen kits
- UV Dye leak detection

**ACS ACCESSORIES**
- Special adapters and hoses
- Oil / Lubricants
- Filter dryers
- Softwares and printers
- Digital thermometers
- Other accessories

## Refrigerant analyser

**R-ID PLUS** (SP01957200)
The R-ID Plus R1234yf / R134a Refrigerant Analyzer is designed for use independently or in conjunction with an ACS machine to determine the purity of R134a or R1234yf refrigerant. The refrigerant analyzers use non-dispersive infrared (NDIR) technology to determine the weight concentration of R1234yf or R134a refrigerant. Acceptable refrigerant purity as it relates to these refrigerant analyzers have been defined by the SAE as a refrigerant mixture that contains 98.0% or greater of R1234yf or R134a by weight. Air is measured and displayed separately. Other contents such as refrigerant oil and dye are not considered contaminants.

It is supplied complete with an R1234yf sample hose, an R134a sample hose , a 100–240 VAC power transformer, built in lithium-ion battery, thermal printer and all required plumbing housed within a hard-shell portable storage case.

**WHY?**
Contaminated refrigerant **can damage your A/C machine,** leading to costly repairs. Impure refrigerant can contain leak-stoppers or other chemicals that can clog filters, coils, hoses and more within a machine. Contaminated refrigerant **can also damage a customer's A/C system,** requiring costly replacement of system components and premature system failures. Testing refrigerant purity before recovery can prevent those contaminants from ever touching your machine – **keeping your investment running as intended.** Refrigerant analyzers are recommended prior to service either for R1234yf and R134a systems to **protect your equipment.**

**Features:**
- Quickly and accurately determines refrigerant purity
- Advanced ergonomic design
- Displays % purity for R1234yf, R134a, and R-12
- Displays % for R-22, unknown refrigerant, and hydrocarbons
- Displays air % independent of the refrigerant sampled
- Capable of analyzing R-12 (1/4" flare coupler sold separately)
- Multiple languages: English (default), German, Spanish, French, Italian, Portuguese, Chinese, Japanese, Korean, and Russian
- Easily prints test results with built-in printer (optional)
- Uses Standard 57 mm thermal paper
- Improved oil resistance with user replaceable hose assembly
- Fender-compatible resting surface
- Full color liquid crystal display (LCD) with on-screen instructions
- Accelerated 70 second test time
- Internal, rechargeable lithium-ion battery for cordless operation in any location
- USB port for connection to the A/C service machine and remote software updates
- All accessories stored in a hard-shell portable storage case

R-ID PLUS

| Technical features | |
|---|---|
| Samples parameters | Vapor only, oil free, 300 psi (2 mpa) max. |
| Detected compounds | R1234yf, R134a, R-12, R-22, unknown refrigerant, and hydrocarbons |
| Sensor technology | Non-dispersive infrared (NDIR) |
| Refrigerant sample size | 2 grams per sample |
| Power | 12 V DC, 2 Amps max. |
| Operational temperature | 10 – 50 °C |

## Robinair A/C flushing system

Car manufacturers have been giving precise guidelines for all the procedures required after the substitution of an A/C system component. The flushing kit for the A/C service units reloading stations has been developed in collaboration with the most important car manufacturers.

## Flushing kits

**ACT1234-SFK** (SP00101176): Flushing kit for AC1234-x, AC1234-xi, AC1x34-x, AC1x34-xi, AC690PROyf, it contains flushing tank, filter dryer, sight glass, two service hoses SAE J2196 and J2888.

Composition:
- **ACT1234** (SP00101175): Installation kit
- **ACT2502-104** (SP00100734): Starter adapters kit

SP00101176

**SP00101974** (SP00101974): Professional Flushing Adapter Kit

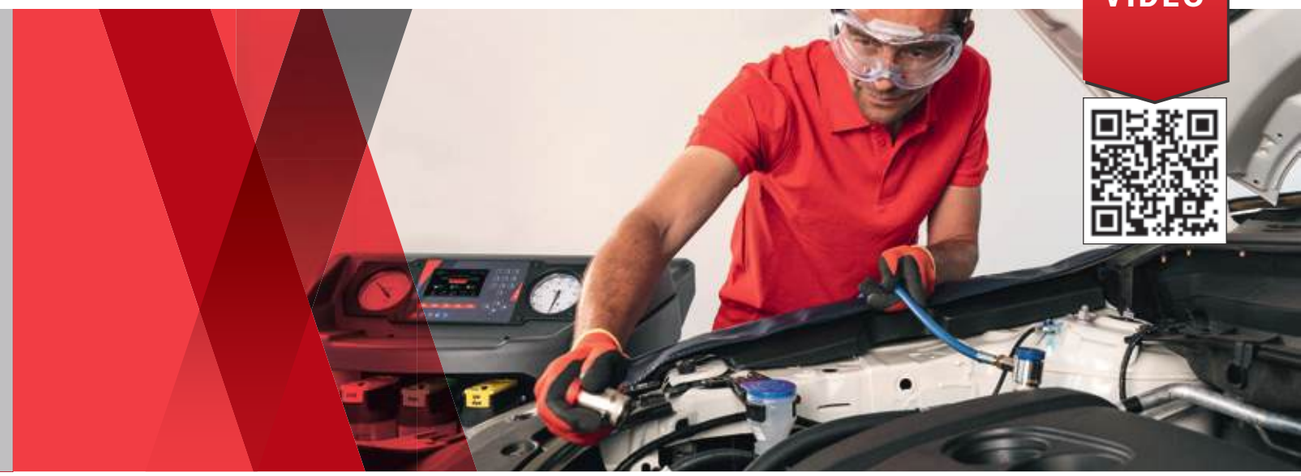
Composition:
- 15 adapters for car and trucks
- Vehicles application adapter list for car and trucks

SP00101974

## Special adapters (optional)

**ACT2600-185** (SP00101282): Large cone for universal adapter
**ACT1800-460** (SP00101283): By-pass filter dryer (VW group)
**ACT2602-273** (SP00101284): TXV valve bridge (VW group)
**ACT2602-274** (SP00101285): TXV valve bridge S class (Mercedes-Benz)
**ACT2602-275** (SP00101286): TXV valve bridge C class (Mercedes-Benz)

Watch the **VIDEO**



## R134a and R1234yf refrigerant leak detector

The Robinair LD7 Premium Refrigerant Leak Detector features a new color graphic display that highlights leak sizes in two unique ways. Bar graph mode shows the amount of refrigerant detected in the air and changes colors as the sensor gets closer to the leak. Sweep mode allows the user to see the level of refrigerant detected in the air through a line graph that helps the user trace back and forth to pinpoint the exact source of the leak. The LD7 also uses an audible alarm to alert technicians of a refrigerant leak, UV LED lights to locate leaks using UV dye and an inspection light for searching in dark locations. The LD7 is compatible with most commonly used refrigerants today, including R134a and 1234yf, and is equipped with a stable, long life sensor that will last up to 10 years. The LD7 meets all of the current industry leak detector standards.

**LD7** (SP01500247)
R134a and R1234yf Electronic Leak detector
› Color display with graphics and visual alerts
› Bar and Pinpoint graphing modes help locate leaks faster
› Loud audible alert with mute option
› UV and Clear LED inspection lights
› Automatic and manual calibration
› Meets SAE J2791, SAE J2913 and EN14624-2020 standards

**LD5** (SP01500248)
R134a and R1234yf Electronic Leak detector
› Color display with graphics and visual alerts
› Bar graph mode helps locate leaks faster
› Loud audible alert
› LED inspection lights
› Automatic and manual calibration
› Meets SAE J2791, SAE J2913 and EN14624-2020 standards

**LD3** (SP01500249)
R134a and R1234yf Electronic Leak detector
› Loud audible alert
› Automatic calibration
› Meets SAE J2791, SAE J2913 and EN14624-2020 standards

LD7
LD5

LD3

## Tracer Gas Leak Detector

**LD9-TG** (SP01957161)
Clearly, air-conditioning service providers may not refill systems with fluorinated greenhouse gases if an abnormal amount of the refrigerant has leaked from the system, until the necessary repair has been completed. This tracer uses a non-toxic, non-flammable, environmentally-friendly (non-polluting) mixture of 5 per cent hydrogen and 95 per cent nitrogen. As a result, the mixture can be released into the environment after the leak detection procedure is completed. The mixture complies with Article 6, Paragraph 3 of EU directive 2006/40/EC.The leak detector reacts to the hydrogen component of the tracer – because hydrogen molecules are so small, it is an ideal gas for leak detection. The gas is charged into an empty system at a pressure of approximately 75 psi (5 bar). As hydrogen is lighter than air, always probe slightly above the suspected leak area.Once the source of the leak is located and repaired, the gas can be released and the system can be recharged again with refrigerant.

› $N_2H_2$ tracer gas Electronic Leak detector
› Color display with graphics and visual alerts
› Bar and Pinpoint graphing modes help locate leaks faster
› Loud audible alert with mute option
› UV and Clear LED inspection lights
› Automatic and manual calibration
› Meets SAE J2970 standards

LD9-TG

### LDx other features

› Long Life Stable Sensor
› True mechanical pump
› Uses 4 AA alkaline batteries
› Low battery indicator
› Comfortable rubberized handle grip
› 26.6 x 5.2 x 5.2 cm
› 680 gr (with batteries)

| | |
|---|---|
| $N_2H_2$ Tank refill, 2.2 l (4 pieces) | **ACTN2H2*** (SP00101996) |
| $N_2H_2$ Tank refill, 0.95 l | **ACTN2H2*** (SP00101102) |

* Country Restriction on delivery

## $N_2H_2$ tracer gas leak detection kits

Clearly, air-conditioning service providers may not refill systems with fluorinated greenhouse gases if an abnormal amount of the refrigerant has leaked from the system, until the necessary repair has been completed. This tracer uses a non-toxic, non-flammable, environmentally-friendly (non-polluting) mixture of 5 per cent hydrogen and 95 per cent nitrogen. The leak detector reacts to the hydrogen component of the tracer – because hydrogen molecules are so small, it is an ideal gas for leak detection. The gas is charged into an empty system at a pressure of approximately 75 psi (5 bar). Once the source of the leak is located the gas can be released and the system can be recharged again with refrigerant. The $N_2H_2$ leak detection kits can be used as a stand-alone kit or in configuration with our AC1234-8i, AC1234-7i, AC1x34-7i, AC1234-5i and AC1x34-5i.

**FLG720**
- FLG720-IT (IT, SI) with UNI 4409 21,7 x 1/14" adapter: SP00101991
- FLG720-FR (FR, BE, PT, ES) with NF E29-650/C 21,7 x 1.814 adapter: SP00101992
- FLG720-DE (DE, PL, NL, RO) with DIN 477-10 24.32 x 1/14" adapter: SP00101993
- FLG720-UK (GB, DK, IE) with BS341-3 5/8 x 1" adapter: SP00101994

FLG720

**FLG220** (SP00101990)
- Universal Leak Detector for R134a, R1234yf, H2

FLG220

## Nitrogen kits

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

**RA504075** (SP01100360)
- $N_2$ kit for R134a system
- 0 – 38 bar pressure regulator with manometers
- 2.5 m service hose with R134a quick coupler

**RA504076** (SP00101196)
- $N_2H_2$ kit for R134a system
- 0 – 10 bar pressure regulator with manometers
- 2.5 m Service hose with R134a quick coupler

RA504075
RA504076

**ACT50yf** (SP00101589)
- R1234yf adapter for RA504075 and RA504076

**ACT1234-NIK** (SP00101952)
- $N_2H_2$ Installation kit for ACxxxx-5i series

**ACT1234-NXK** (SP00101740)
- $N_2H_2$ kit for new generation ACxxxx-xi unit

ACT50yf

ACT1234-NXK

Watch the
**VIDEO**

## UV leak detection kit

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** (SP0F210067)
› Halogen UV lamp 12 volts 60 watt, vehicle battery connection about 3,000 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
› Molded transport case

**471547** (SP00101587)
› R1234yf adapter for RA16352EU and RA16355

RA16352EU

471547

## UV dye injection kit

**RA16355** (SP0F210068)
› Injection gun with R134a hose and R12 adapter
› 4 universal A/C dye twist-on cartridges

RA16355

## Universal UV dye cartridges

› Universal dye for R12, R134a and R1234yf
› This type of packaging prevents fumbling or messy spills
› Use with the Robinair injection kit RA16355, RA16352EU, RA16380EU.

**RA16356** (SP0F210069): each for 20 applications, 4x 30 ml
**RA16357** (SP0F210070): each for 6 applications, 6x 7.5 ml

RA16356

RA16357

## UV Dye Cleaner

**16212** (SP00101588)
UV Dye Cleaner 237 ml

16212

## Oil/UV 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.

**SP00101018**
Twister Oil/UV Injector for R134a System

**SP00101465**
R1234yf adapter for Twister Oil/UV Injector SP00101018

SP00101018

## Universal UV dye

**RA16286B** (1692600144)
› 1x 240 ml – for 32 applications
› Universal for R12, R134a and R1234yf
› OEM approved and SAE certified dye in a squeezable dosing bottle

RA16286B

## 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** (SP0F210066): UV leak detection lamp with rechargeable Li-ion battery and UV shield/enhancer glasses.

RA16296

## Quick couplers for automotive

Service couplers connect to our special service hoses allowing access to service ports on automotive R134a and R1234yf A/C systems. Six-ball couplers have an integral safety sleeve which protect against injury and refrigerant loss if the coupler is disconnected under pressure. The compact design easily fits into tight areas.

**RA18190A** (SP01100021): Low side R134a quick couple – SAE specification
**RA18191A** (SP01100023): High side R134a quick couple – SAE specification
**561666** (SP01100506): Low side R1234yf quick couple – German OE specification
**561665** (SP01100507): High side R1234yf quick couple – German OE specification
**563678** (SP01100525): Low side R1234yf quick couple – SAE specification
**563677** (SP01100524): High side R1234yf quick couple – SAE specification

RA18191A
RA18190A

561665
561666

563677
563678

## Special service port adapters

**ACT6002** (1692600141): R134a HP service port adapter – service port extension
**ACT6003** (SP00100741): HP LP adapter (Renault) – Service port converter
**ACT6006** (SP0F210036): Volvo adapter (old models)
**SP00101700** HP Service Port Adapter – HP Extension Service Port R1234yf
**ACT12688** (SP00101825): LP Service Port Adapter – LP Extension Service Port R1234yf
**ACT12686** (SP00101344): HP Service Port Adapter – HP Extension Service Port R134a
**ACT12689** (SP00101826): LP Service Port Adapter – LP Extension Service Port R134a
**RA6050KIT** (SP00101408): Bus and Heavy Duty kit
**UK30428** (SP00100900): Adapter nipple M14 x 1,5 male o'ring – 1/4" male flare
**RA40333** (SP00101078): Hose extension nipple, 1/4" male flare – 1/4" male flare

ACT6003

RA6050KIT

ACT6002

ACT12686
SP00101700

ACT6006

ACT12689

## 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** (SP00100086): Vacuum pump oil, 1 bottle 600 ml
**5604052PACK** (SP00100088): Vacuum pump oil, 12 bottles 600 ml

5604052

## Oil bottles

**PAGRF46** (SP00101036): PAG 46 oil bottle, 250 ml
**PAGRF100** (SP00101034): PAG 100 oil bottle, 250 ml
**PAGRF150** (SP00101035): PAG 150 oil bottle, 250 ml
**POERFOIL** (SP00101586): POE Oil Bottle for R134a Electrical and Hybrid systems, 250 ml
**PAGRF46yf** (SP00101422): PAG 46 oil bottle for R1234yf, 250 ml
**POERFOILyf** (SP00101827): POE Oil Bottle for R1234yf Electrical and Hybrid systems, 250ml
**PAGRFSD** (SP00101828): PAG Oil Bottle for R134a and R1234yf Electrical and Hybrid systems with SANDEN SPA2, 250ml

PAGRF46

## Filter dryer

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

**5117399** (SP00100001): Filter dryer: AC590PRO, AC690PRO, AC790PRO service units
**SP00101192** (SP00101192): Filter dryer: AC1x34-3, ACM3000, AC595PRO, AC690PROyf, AC595PROyf service units
**34724** (SP01100355): Filter dryer: AC1234-7/-8/-xI service units
**5117524** (SP00100146): Filter Dryer: Flushing kit

5117399

SP00101192
34724

## A/C database

**AC3339:** R134a and R1234yf vehicles A/C system refrigerant and oil quantities database. USB pendrive, Update install for AC1X34-xi and AC1234-xi Andiamo units

## WiFi Connection

**SP00101379:** WiFi Connection kit for AC1234-xi series

## Printer

**SP00101306:** Printer for AC1234-3 and AC1x34-3 service unit. Easy to install
**650-STP** (SP00100728): Printer for ACxxxPro. Easy to install
**3000-STP** (SP00100419): Printer for all ACM3000. Easy to install
**5607069** (SP00100087): Printer paper. One roll printer paper for all Robinair service units
**ACT1234-PIK** (SP00101953): Printer Installation kit for AC1234-xi and AC1x34-xi series

650-STP

## Dust cover

**SP00101641:** Dust cover for Robinair AC1234-xi units

## Refrigerant Identifier kit for AC1234-xi generation

**ACT1234-RIK** (SP00101951): R1234yf Refrigerant Identifier Kit for AC1234-xi (except -3i) series

## Hoses extensions

**RA245VSK** (SP00100075): R134a 2,44 m Service Hoses Extension for ACxxxPRO units
**RA500VSK** (SP01100358): R134a 5 m Service Hoses Extension for ACxxxPRO units
**1234-SH5** (SP00101877): R1234yf 5 m Service Hoses Kit for AC1234-xi and ACM3000yf units
**1x34-SH5** (SP00101878): R134a 5 m Service Hoses Kit for AC1x34-xi units

RA245VSK

## Conversion kit for AC1x34-xi series

**1x34-7iCONV** (SP00102091): R1234yf Conversion kit for AC1x34-xi

## Miscellaneous

**STRPK_134** (SP00101416): Starter Kit R134a
Kit contains: dust cover, O'Ring kit, UV Dye 240 ml, PAG oil bottle PAG 46 (250 ml), UV lamp and goggle, safety kit
**STRPK_1234yf** (SP00101409): Starter Kit R1234yf
Kit contains: O'Ring kit, UV Dye 240 ml, PAG oil bottle PAG 46 (250 ml), UV lamp and goggle, safety kit
**RA161000** (SP0F210059): O'Ring kit for AC system (10 pcs x 25 o-ring types)
**RA162000** (SP00101681): Schrader Valves kit (7 types + 1 remover tool)
**Service Magnet** (SP00101972):
Strong permanent magnet for operating magnetic valves by hand. Fits virtually all solenoid valve stems up to a core diameter of 20 mm

STRPK_1234yf

RA162000

RA161000

SP00101972

## Digital thermometer 180°

**RA43230EU** (SP00101824)
- Celsius or Fahrenheit selectable option
- Temperature range: –50 °C to 150 °C
- Accuracy: ± 1 °C (between –10 °C and 100 °C)
- Display resolution: 0.1 °F/°C
- Sampling time: 1 sec.
- Auto Power off
- Battery: One 1.5 Volt, size LR44

RA43230EU

ROBINAIR

**For further information on Robinair products please visit www.robinair.com or contact your local wholesaler.**

Subject to change without notice.