ROBINAIR

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 R-134a and R-1234yf 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.

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
› Select between fully automatic service mode or single service mode
› No manual valves

AC1234-8i (SP00000164): Fully automatic A/C unit R-1234yf with Refrigerant Identifier
VAC1234-8i (SP00000166): Fully automatic A/C unit R-1234yf with Refrigerant Identifier for VW
RAC1x34-8i (SP00000170): Fully automatic A/C unit R-134a with Refrigerant Identifier for BMW
RAC1234-8i (SP00000168): Fully automatic A/C unit R-1234yf with Refrigerant Identifier for BMW

AC1x34-7i (SP00000161): Fully automatic A/C unit R-134a

100% AUTOMATIC
R1234yf
R134a
Wi Fi
Connectivity

The best in class in R-134a and R-1234yf 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 R-134a and R-1234yf 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
› 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

AC1234-5i P (SP00000177): Fully Automatic A/C unit R-1234yf with printer
AC1234-5i RI (SP00000178): Fully Automatic A/C unit R-1234yf with printer and Refrigerant Identifier

AC1x34-5i P (SP00000180): Fully automatic A/C unit R-134a with printer

100% AUTOMATIC
R1234yf
R134a

The new reference for R-134a and R-1234yf air conditioning service units

Technical data, primary functions

	AC1234-8i / AC1x34-7i	AC1234-5i / AC1x34-5i
Refrigerant Type	R-1234yf / R-134a	R-1234yf / R-134a
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 (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 / POE Automatic with electronic scale	PAG / POE 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" color display	4,3" 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 (R-1234yf) / 21.5 kg (R-134a)	19.5 kg (R-1234yf) / 21.5 kg (R-134a)
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
Mobile app connection	Yes	Optional

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 R-1234yf 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

Deep Recovery helps to recover more refrigerant, reducing the environmental impact and saving working hours. (Figures depending on AC system specific configuration and operating conditions)

Deep Recovery included: Air Conditioning service units from Robinair