

A black and white photograph of a car engine compartment. In the foreground, several black hoses and a metal AC line with a pressure gauge are visible. The background shows the engine block and other mechanical parts, slightly out of focus.

# **AIR CONDITIONNING** *Solutions*





DIGITAL AUTOMATIC AIR CONDITIONING STATION R1234yf

AC 9344

NEW

R1234yf

Easy-to-use digital machine.

With printer and heating belt!

Integrated printer



Free upgrade for LIFE



LCD graphic display  
Simple and easy-to-use interface



Integrated heating belt



Flask holders  
quick connectors

POLYMERIZATION  
CONTROL CYLINDER  
R1234YF

AC 2034

NEW



2  
WARRANTY

SA 9927 AIR-CONDITIONING MACHINE SET-UP



DIGITAL AUTOMATIC AIR CONDITIONING STATION R134a

AC 9544

NEW

R134a

Easy-to-use digital machine.

With printer and heating belt!

Integrated printer



Free upgrade for LIFE !



LCD graphic display  
Simple and easy-to-use interface



Integrated heating belt



Flask holders  
quick connectors

Specifications:

- for R134a gas
- 7" color touchscreen
- hybrid/electric vehicle compatible thanks to "Auto-Clean" rinsing system
- 100l/min pump
- gas recovery 250g/min
- >95% recovery
- heated belt
- printer
- 2 bottles (used oil, new oil)
- 3m hose kit
- HP/BP quick couplers
- internal cylinder 7Kg / operational limit 1Kg
- gas scale accuracy +/- 5g
- oil scale accuracy +/- 1g
- factory-assembled and tested



SA 9927 AIR-CONDITIONING MACHINE SET-UP

2  
WARRANTY





## A/C DIAGNOSTICS

### FILLING KIT FOR NITROGEN/HYDROGEN (N2-H2) LEAK DETECTION 50bar

AC 1017

The tools contained in the case are used to "pressurize" refrigeration and air-conditioning systems in order to "simulate" the pressure at which the system will then have to operate.



#### Contents:

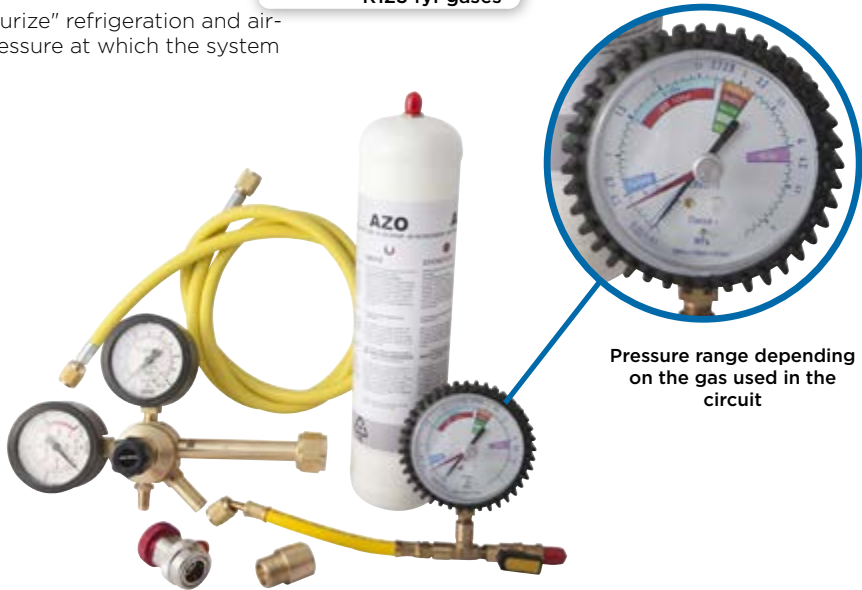
- case
- SA4062: pressure regulator block with safety valve up to 50bar
- SA4060: isolation pressure gauge + 12cm flexible hose
- SA4063: reducer for 1kg cylinder
- SA1090: 1kg hydrogenated nitrogen cylinder (N2-H2)
- SA4061: 150cm piping
- SA4029: high-pressure fitting
- SA4052: high-pressure fitting for R1234yf gas



+ Compatible with R134a and R1234yf gases

R1234yf

R134a



Pressure range depending on the gas used in the circuit

Compatible with small and large bottles



### UNIVERSAL ELECTRONIC LEAK DETECTOR R134a/1234YF/HYDROGEN

AC 7495

#### Specifications:

- 3-level adjustable sensitivity
- automatic calibration
- sensor type: semiconductor
- built-in fan
- power supply: 4 AA alkaline batteries
- operating time: 4-6h continuous
- low battery indicator
- warm-up time: 45s
- probe length: 40cm
- supplied in case with batteries



+ Multi-gas, auto-calibration



R1234yf

R134a



### 1kg NITRO-TRACE CYLINDER (N2-H2)

SA 1090



### 2.2kg NITRO-TRACE CYLINDER (N2-H2)

SA 1092



### POLYMERIZATION CONTROL CYLINDER R1234YF

AC 2034

NEW

R1234yf

Polymerization of R1234YF gas can cause serious damage to stations and vehicles!  
These days, it's essential to check the quality of the gas in your cylinders before carrying out any work.



The polymerization of HFO R1234yf is the result of a chemical reaction that occurs under certain temperature and humidity conditions. In this context, hydrofluorolefin molecules can interact with other substances, causing the fluid to solidify as it expands. This solidification can block hoses, dehydrators, expansion valves and even compressors, resulting in considerable repair costs.

#### Identified causes:

- The residual presence of certain additives used to clean fluid cylinders, insufficiently removed before filling.
- Contact of R1234yf with lubricants or substances containing hydrocarbons.

This phenomenon was observed on two occasions: when recharging the station from a new fluid cylinder, and when filling the air-conditioning circuit with refrigerant from the station's reservoir.

Clean the filter after each use, so that it can be reused.



### DETECTION KIT / AIR CONDITIONING IMPURITIES FILTRATION SYSTEM R134a

AC 1018



R134a



### DETECTION KIT / AIR CONDITIONING IMPURITIES FILTRATION SYSTEM R1234YF

AC 1019

R1234yf

This kit allows you to visually check the condition of the air-conditioning system.

Controls gas quality according to clarity, detecting the presence of tracers, stop leaks and impurities linked to circuit or compressor faults.  
Our kit is also equipped with a humidity analyzer that changes color as the gas passes through.





CONNECTION 1/4 LOW PRESSURE R134a

SA 4028

Spare part of AC 4029/AC 1014/AC 1016  
Accessory of AC 4041/AC 4042/AC 4045/AC 1017/AC 7000





HIGH PRESSURE COUPLER M1/4" R134a

SA 4029

Spare part of AC 4029/AC 1017/AC 1014/AC 1016  
Accessory of AC 4041/AC 4042/AC 4045



High-pressure connection R134



2 COUPLING M1/4" SAE R134a HIGH & LOW PRESSURE SET

AC 4029







QUICK CONNECTOR R134a HP 90° F14x150 - M1/4"

AC 9190





QUICK CONNECTOR R134a LP 90° F14x150 - M1/4"

AC 9185





AIR CONDITIONING ADAPTER BMW/VOLVO/FORD HP

AC 4028

Accessory of AC 1012/AC 1014/AC 1015/AC 1016





AIR CONDITIONING LP R-134a ADAPTER RENAULT

AC 4027

Spare part of AC 4041/AC 4042/AC 4040  
Accessory of AC 4055/AC 1017





HIGH PRESSURE COUPLER FOR GAS R1234yf

SA 4052

Spare part of AC 1017  
Accessory of AC 1012/AC 1014/AC 1015/AC 1016





LOW PRESSURE COUPLER FOR GAS R1234yf

SA 4054

Spare part of AC 1012/AC 1014/AC 1015/AC 1016





AIR CONDITIONING LOW PRESSURE COUPLER FORD FIESTA

AC 4036

Accessory of AC 1017/AC 1012/AC 1014/AC 1015/AC 1016





AIR CONDITIONING HP 1234yf COUPLER FORD FIESTA

AC 4037

Accessory of AC 1017/AC 1012/AC 1014/AC 1015/AC 1016





BMW HP CONNECTOR R1234yf

AC 9175







BOTTLE UNIVERSAL ADAPTER 1234YF LP

CO 4072





BOTTLE UNIVERSAL ADAPTER 1234YF HP

CO 4073





1kg NITRO-TRACE CYLINDER (N2-H2)

SA 1090

Spare part of AC 1017/AC 1014/AC 1015/AC 1016






1kg: Nitrogen 95% and hydrogen 5%



UNIVERSAL CYLINDER ADAPTER R134A HP

CO 5063





UNIVERSAL CYLINDER ADAPTER R134A LP

CO 5062





2.2kg NITRO-TRACE CYLINDER (N2-H2)

SA 1092

Accessory of AC 1014/AC 1015/AC 1016/AC 1017



Nitrogen 95% and hydrogen 5%

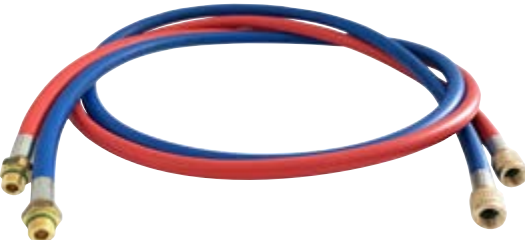


FLEXIBLE 3m R1234yf M12x1.5 x F1/4" SAE RIGHT RED


SA 8735

FLEXIBLE 3m R1234yf M12x1.5 x F1/4" SAE RIGHT BLUE

SA 8734



NOTE Find our complete range on clas.com



FLEXIBLE 3m F1/4" x F1/4" SAE RIGHT BLUE

SA 8732

FLEXIBLE 3m F1/4" x F1/4" SAE RIGHT RED

SA 8733



NOTE Find our complete range on clas.com







TN



**R134a**  
AIR CONDITIONING R134a  
CONTROL SET BY TRACER  
AC 4052

Composition:  
SA1002: 1 x UV glasses  
CO4077: 1 x bag of 12 x 7.5 ml tracer syringes for R134a gas  
OE0699: 1 x rechargeable UV flashlight



**R1234yf**  
AIR CONDITIONING R1234yf  
CONTROL SET BY TRACER  
AC 4053

Composition:  
SA1002: 1 x UV glasses  
CO4078: 1 x bag of 12 7.5ml tracer syringes for R1234yf gas  
OE0699: 1 x rechargeable UV flashlight



**R134a - R1234yf**

TN

12 SYRINGE TRACER  
PACK 7,5ml FOR R134a  
GAS  
CO 4077



12 SYRINGE TRACER  
PACK 7,5ml FOR R1234yf  
GAS  
CO 4078



**Universe**

TN

UNIVERSAL AIR  
CONDITIONING TRACER 250ml  
CO 4068



UNIVERSAL TRACER  
SYRINGE 7,5ml (12 PCS) +  
ADAPTER  
CO 6253



**Hybride**

TN

HYBRID VEHICLES AIR  
CONDITIONING TRACER 250ml  
CO 4069



12 SYRINGE TRACER  
PACK 7,5ml FOR HYBRID  
VEHICLE  
CO 4079



DIGITAL THERMOMETER

AC 4223

**Specifications:**

- digital display
- temperature range: -40° to 250°C
- stainless steel probe
- automatic shut-off
- power supply: LR44 battery (included)
- accuracy:  
±2% (between -40°C and 200°C)  
±3% (between 200°C and 250°C)



DIGITAL ELECTRONIC  
THERMOMETER

AC 4224

**Specifications:**

- digital display
- temperature range: -50° to +300°C
- stainless steel probe
- pressure ±1°C
- 1.5V AAA battery
- cable length: 900mm
- probe length (chrome-plated part): 170mm
- cable + probe length (with handle): 1200mm



ELECTRONIC PROBE  
THERMOMETER

AC 4231

**Specifications:**

- temperature scale: -50°C +300°C  
(-58°F+572°F)
- resolution: 0.1°C
- accuracy: (-20°C - 80°C) ± 1°C
- power supply: 1.5Vdc
- temperature indication: °C /°F
- data storage
- max and min temperature storage
- maximum and minimum temperature  
selection and warning
- tubular cable length: 90 cm



INFRARED THERMOMETER  
-38°/520°

OE 5036

Reliable measurements thanks to its high-precision laser sight.  
The practical infrared thermometer enables non-contact measurement of surface temperatures from a safe distance.

**Specifications:**

- measurement temperature: -38°C/520°C (-36.4°F/968°F)
- measurement accuracy: ± 2°C
- response time: 1s
- resolution: 0.1°C/0.1°F
- automatic brightness cut-out after 15s
- automatic switch-off after 60s without intervention
- power supply: 2 AAA 1.5V batteries





# A/C MAINTENANCE

## CHOOSING THE RIGHT AIR CONDITIONING OIL

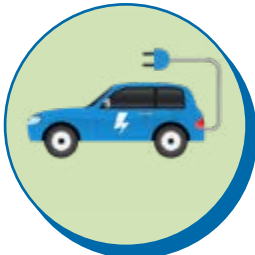
VEHICLE TYPE:



THERMAL



HYBRID



ELECTRIC



MECHANICS  
Belt drive

A/C  
COMPRESSOR



ELECTRIC  
Battery control

### A/C PAG OIL

- Choose PAG R-134a or 1234yf universal A/C oil
- Choose a PAG A/C oil with the grade recommended by the manufacturer.

### A/C POE OIL

- Choose POE R-134a or 1234yf NO SANDEN universal A/C oil
- Choose a POE A/C oil with the grade recommended by the manufacturer.



## LEAK STOP

AIR CONDITIONING LEAK STOP  
FOR R1234yf 30ml

CO 4070



AIR CONDITIONING LEAK  
STOP FOR R134a 30ml

CO 4065



NO  
WARRANTY

## CLEANER

AIR CONDITIONING CIRCUIT  
CLEANER 400ml

CO 1019



AIR CONDITIONING TRACER  
SPRAY CLEANER 400ml

CO 4074



NO  
WARRANTY



### UNIVERSAL

REF	DESIGNATION	
CO 4080	UNIVERSAL AIR CONDITIONING OIL 250ml PAG	
CO 4081	UNIVERSAL AIR CONDITIONING OIL 1L PAG	
CO 4099	UNIVERSAL AIR CONDITIONING OIL POE 80 250ml (EXCEPT SANDEN)	

### R134a

### R456a

REF	DESIGNATION	
CO 5003	AIR CONDITIONING OIL PAG 46 250ml - R134a	
CO 4093	AIR CONDITIONING OIL PAG 46 1L - R134a	
CO 6136	AIRCON OIL PAG 68 250ml - R134a	
CO 5004	AIR CONDITIONING OIL PAG 100 250ml - R134a	
CO 4094	AIR CONDITIONING OIL PAG 100 1L - R134a	
CO 6147	AIRCON OIL PAG 150 250ml - R134a	
CO 4095	AIR CONDITIONING OIL PAG 150 1L - R134a	
CO 6164	AIRCON OIL POE 32 250ml - R134a	
CO 5001	AIR CONDITIONING OIL POE 68 250ml - R134a	
CO 4098	AIR CONDITIONING OIL POE 68 1L - R134a	
CO 5002	AIR CONDITIONING OIL POE 100 250ml - R134a	

### R1234yf

REF	DESIGNATION	
CO 4096	AIR CONDITIONING OIL PAG 46 250ml - R1234YF	
CO 4097	AIR CONDITIONING OIL PAG 100 250ml - R1234YF	

NO  
WARRANTY





AIR CONDITIONING WASHING KIT

AC 1023

An economical way to remove contaminants and scale from air-conditioning system components.

Thorough cleaning of the circuit to remove oil, contaminants, refrigerant residues and moisture.

Essential when replacing a circuit component or simply opening the circuit, to quickly and efficiently remove refrigerant oil and debris when replacing a component (e.g. compressor).

Easy to use: simply fill the cartridge with decontamination solution, pressurize with the nitrogen cartridge and purge each component.

As the cleaning solution is a highly evaporative product, there's no risk of moisture remaining in the circuit.

Drying of the circuit occurs naturally with the hydrogenated nitrogen gas used.

2 washes with 500ml are possible.



TN



GUN AND SPRAY CLEANING SET FOR AIR CON SYSTEM 600ml

AC 9156



TN

A/C FLUSHING ADAPTER KIT

AC 4061

Set of conical adapters for connecting washing equipment to A/C systems.

The kit enables you to flush air-conditioning circuit components (such as condensers, hoses, etc.) in a closed circuit. This operation is essential if the air-conditioning compressor has broken, sending iron filings throughout the circuit.



- Contents:**
- 2 clamping cones with 1/4 SAE connection
  - 5 sets of plates
  - 3 sets of cones
  - 1 storage case



LIQUID CANISTER WASHING AIR CONDITIONING 5L

CO 1070

Accessory of AC 1023

Approx. 20 washes



TN



4 COMPARTMENTS ORGANIZER FOR AIR CONDITIONING MAINTENANCE BOX

AC 4021

Accessory of AC 4024/AC 4025/AC 4026/AC 4032/AC 4033/AC 4034

Ideal for grouping different air-conditioning maintenance cabinets.

Can accommodate up to 4 cabinets.



TN



VALVE/CONNECTOR/PLUG AIR CONDITIONING MAINTENANCE SET

AC 4034

Assortment of fittings, plugs and valve cores for all basic maintenance of R134a air-conditioning systems.



Retail components available.



TN

AIR CONDITIONING MAINTENANCE KIT R1234YF

AC 4054

- Contents:**
- CO4082x4: 20 valve cores 19.0x5.12mm R1234yf
  - CO4083: 5 valve cores 21.8x7.8mm R1234yf
  - CO4084: 5 valve cores 22.1x9.8mm R1234yf
  - CO4085: 5 valve cores 21.5.0x7.8mm R1234yf
  - CO4086: 5 valve cores 20.0x7mm R1234yf
  - CO4092: 5 valve cores 27.5x7.5mm
  - CO4087: 5 plugs M8x1.0 short R1234yf
  - CO4088: 5 plugs M8x1.0 long R1234yf
  - CO4089: 5 plugs M9x1.0 R1234yf
  - CO4090: 5 plugs M10x0.75 R1234yf
  - CO4091: 5 plugs M10x1.25 R1234yf
  - AC4048: valve core remover R12/R134a







AIR CONDITIONING MAINTENANCE SET FOR GERMAN VEHICLES (171 PCS)

AC 4025

Assortment of seals, plugs and valve cores for all basic air-conditioning maintenance.

Retail components available.



AIR CONDITIONING MAINTENANCE TOOL SET FOR FRENCH VEHICLES (214 PCS)

AC 4024

Assortment of seals, plugs and valve cores for all basic air-conditioning maintenance.

Retail components available.



O-RING STANDARD KIT

AC 4056

Contents:

- 15 O-rings 7.65x1.76mm
- 15 O-rings 14x1.78mm
- 15 O-rings 10,82x1,78mm
- 15 O-rings 17,17x1,78mm
- 15 O-rings 10,3x2,5mm
- 15 O-rings 6,34x2,5mm
- 15 O-rings 9.3x1.78mm
- 15 O-rings 4,89x1,53mm
- 15 O-rings 20,4x3,5mm
- 15 O-rings 19,18x2,46mm
- 15 O-rings 20x2,5mm
- 15 O-rings 8x2mm
- 15 O-rings 4.5x1.5mm
- 15 O-rings 8,92x1,5mm
- 15 O-rings 6,8x1,78mm
- 15 O-rings 15x3,5mm
- 15 O-rings 9x2,5mm
- 15 O-rings 6,6x6,51mm
- 15 O-rings 6,3x2,5mm
- 15 O-rings 6.5x2mm
- 15 O-rings 7.5x1.65mm
- 15 O-rings 19x2mm
- 15 O-rings 18,5x2,65mm
- 15 O-rings, 7x2mm
- 15 O-rings 4,4x1,78mm
- 15 O-rings 21,5x3,5mm
- 15 O-rings 6,8x1,78mm
- 15 O-rings 20x2,5mm
- 15 O-rings 4,4x1,78mm



AIR CONDITIONING VALVE CORE KIT

AC 4057

Contents:

- 20 valve cores 19.0x5.12mm (CO 4010)
- 10 valve cores 21.5x7.8mm (CO 4017)
- 5 valve cores 20.0x7.0mm (CO 4018)
- 5 valve cores 18.7x6.0mm (CO 4028)
- 5 valve cores 21.8x8.0mm (CO 4029)
- 5 valve cores 22.1x9.8mm (CO 4084)
- 5 valve cores 18.35x5.1mm (CO 4058)
- 5 valve cores 27.15x7.8mm (CO 4059)
- 5 valve cores 18.5x6.5mm (CO 4060)
- 5 valve cores 19.0x5.12mm - HFO1234yf (CO 4082)
- 3 valve cores 21.8x8.0mm - HFO1234yf (CO 4083)
- 3 valve cores 22.1x9.8mm - HFO1234yf (CO 4030)



ORIFICE TUBE SET (20 PCS)

AC 4071

The orifice tube is a tube of specified length and cross-section that expands the refrigerant. Unlike the expansion valve, it cannot regulate flow or superheat.

The orifice tube is always associated with an accumulator at the evaporator outlet, and consists of three main parts:

- a metal tube with a chamfered inlet
- a plastic tube body
- an inlet and outlet filter

The orifice tube must always be replaced when any other major part of the circuit is replaced (compressor, condenser, evaporator, accumulator).



Contents:

- CO5079 x2 for Ford/Mazda/Nissan
- CO5078 x2 for Audi/Toyota
- CO5070 x2 for Volvo
- CO5071 x2 for Audi/Fiat/Chrysler/Alfa Romeo
- CO5072 x2 for Ford
- CO5073 x2 for Opel/GM
- CO5074 x2 for Chrysler/Dodge
- CO5075 x2 for Ford/Jeep/Dodge/Hyundai
- CO5076 x2 for Ford/Mazda
- CO5077 x2 for Ford/Jeep/Mazda/Chrysler



AIR CONDITIONING/FUEL DISCONNECTION KIT

AC 4229

7-piece disconnection set for air-conditioning and fuel hoses;



Contents:

- 7 pieces for Ø 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8" pipes



R12/R134a VALVE CORE REMOVER

AC 4048

