ECOTECHNICS®

SIMPLY EFFICIENT

PRODUCT
CATALOGUE 2022

ECOTECHNICS

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ECOLOGY – TECHNOLOGY

Born in Florence, the hotbed of inventors, genius and creativity, we have made innovation our hallmark, producing stations for the maintenance of air conditioning systems for vehicles that require work in the workshop.
Over the years Ecotechnics has obtained numerous international patents which are used in over eighty countries around the world; these were created thinking of simple work processes, intuitive technologies and automatisms for the benefit of the workshop and the environment.
We have taken care of the materials and processes, making them safe for the person and for the planet, which we want to preserve as the only place that can host our lives.

The right climate for the environment and people

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ECOTECHNICS

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BRAND HISTORY

Ecotechnics was established in Florence in 1995. Innovative ideas instantly found fertile ground and a privileged environment: Tuscany has always been strongly associated with research and innovation, featuring excellent research centres and highly qualified universities. The region has thus reached a high index of human resources and competences, capable of generating strong innovative development.
The initially small factory soon specialised in air conditioning service units for recovery, recycling and recharging of air conditioning systems in the automotive industry. Ecotechnics achieved a leading global position in a few years.

The key to the organisation's success is ongoing research for improvement and dedication to providing technological development for the benefit of the user. Driven by this concept, Ecotechnics has earned numerous international patents over the years and is proud to have invented and introduced a host of advanced functions, such as the fully automatic service process, the compact aluminium manifold and the A/C diagnostic function integrated in an A/C service unit.
The company Snap-on Climate Solutions Srl was established following the acquisition of Ecotechnics Spa by the American holding Snap-on in 2015. Snap-on is one of world's leading manufacturers of innovative tools, diagnostic systems and equipment, and has been service provider for professional users in the industrial and automotive sector since 1920. The brand Ecotechnics and Snap-on have defined specific synergic competences and, together with the other brands of the group, pursue the common goal of developing the most valuable productivity solutions in the world.

Today the Ecotechnics brand is present in more than 80 countries worldwide through a network of selected and specialised dealers.

For over 25 years there is no one like us

ECOTECHNICS HIGHLIGHTS

Solutions, trends and technological standards

SANITIZATION
Complete, efficient and fast

The Covid pandemic increased awareness and sensitivity accelerating the introduction of sanitization or disinfection procedures at workshops. The Saniflux program acts specifically in the ventilation ducts and the evaporator of the vehicle air conditioning system.

Saniflux XS601.00 is a device with two different modes of use: connected to the Ecotechnics A/C station and operating simultaneously with the A/C service (patent no. EP2349755) or in a completely autonomous mode.

Saniflux uses ultrasound technology to nebulize liquids and is specially designed to precisely direct the flow towards the air suction grid inside the passenger compartment. The treated vehicle can be promptly delivered back to the user with an Ecotechnics certificate of completed personalized service downloadable online.

In addition to the sanitizing treatment using Saniflux Liquid (AEK322), the anti-virus product pursuant to EN14476 "Disicide plus + spray refill 1000ml" (AEK325) is also available. A ready-to-use water-based, solvent-free and alcohol-free liquid for gentle disinfection. Environmentally friendly and safe for the user.

REFRIGERANT CONFIGURATION
Practical for the dealer, a service for the workshop

The constant availability of the product and fast delivery are decisive in any logistic organization; a competitive advantage for the dealer and, for the workshop, a concrete reason for choosing a supplier.

The most tangible exclusive result recently developed and patented by the Ecotechnics research and development team, is the possibility to supply "neutral" climate stations and decide the type of gas even at the last moment, thanks to the availability of different refrigerant kits.

The packaging of the station actually provides the space for the insertion of the R134a or HFO refrigerant activation kit.

HYBRID
The integrated patented solution or aftermarket option

The "Observatory for electric mobility" of the European Commission confirms a growth trend of hybrid and electric cars over 30% per year that will reach in less than 20 years more than 50% of vehicles currently in circulation. These vehicles have the compressor driven by a high voltage electric motor. The specific oil must be insulating to ensure safety.

The use of non-insulating oil is dangerous for the operator. To remove all traces of non-insulating oil, the cleaning of service hoses and internal circuits is mandatory before recharging.

The patented Ecotechnics system automatically carries out the washing of service hoses and internal ducts, thanks to the specific software and connectors integrated into the station. A closed-circuit washing cycle enables a high cleaning efficiency.

In addition to the integrated system of the standard feature, an innovative aftermarket upgrade solution has been developed (KIT.HYBRID for ECK NEXT and Cinquecento12).

PROJECT: TECHNOLOGICAL STANDARDS
Safety, energy saving, ease of use and environmental protection

The key to the success of Snap-on Climate Solutions is continuous research for improvement. The company has obtained numerous international patents over the years and is proud to have introduced many innovations to the market.

The best solutions have become "technological standards" that will be gradually adopted throughout the entire range.

Among the most recent successful standards, there is the distributor with 12 Volt solenoid valves, a significant improvement in terms of energy saving, lower heat inside the station and higher safety; the configuration of the stations through the refrigerant kits with advantages in terms of flexibility for the retailer; the generation of new touch screens with a software interface that improves user-friendliness; the refrigerant analyzer that provides the percentages of the tested gas components and, finally, the WIFI connectivity.

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"SAVING" BENEFIT: ACCURACY AND EFFICIENCY
The standard for recovery and filling control

Snap-on Climate Solutions has gained considerable experience in the commercialization of climate stations designed according to the most restrictive market standards such as the American SAE regulations. In order to constantly monitor the performance of the climate stations, the company has developed internal product standards in order to monitor the parameters of Recovery Efficiency and Refrigerant Filling Accuracy. Periodic tests are always performed under the same conditions in terms of climatic condition, measuring instruments and procedures.

Moreover, thanks to technological development and improvement, the company is able to obtain Efficiency and Accuracy values that exceed the results required by universally accepted standards. An example is the patented feature of the Vacuum Assist that has allowed to pass the homologation tests with ETL in the USA.

GAS ANALYSIS AND IDENTIFICATION
The solution to managing the risk of contamination

With the objective of improved environmental protection, the Regulation (EU) No 517/2014 establishes the reduction of refrigerants with a high global warming potential (GWP). Since January 1, 2017, vehicle A/C systems in many countries around the world must use refrigerants with GWP < 150. HFO1234yf gas is the most widely used solution with a GWP 350 times lower than its predecessor R134a.

Controls and limitations on the production, import and sale of R134a gas have been introduced. The graph shows the maximum allowed percentage of R134a and the price expectations of the two refrigerants. The price difference and supply difficulties can cause misuse of refrigerants and lead to contamination of the station.

Ensuring the purity of the refrigerant is critical to the proper management of Warranties, to avoid station decontamination and A/C system repair costs and to ensure the disposal of contaminated gas.

In the majority of Ecotechnics stations, a gas analyzer or gas identifier can be installed.
• The gas identifier verifies the correct purity of the refrigerant with a "pass-fail" test.
• The gas analyzer also detects the percentages of the different refrigerant components.

CONNECTIVITY
The dialogue between the workshop and the equipment

The digital world offers endless opportunities to integrate new solutions into the organization of the "connected workshop": an efficient and useful experience for the modern mechanic, aligned with future online services that help to "increase the profitability of the workshop. WIFI connection as a standard or optional feature has been implemented in the latest Ecotechnics climate stations. Current features include real-time A/C service status display on smartphones, tablets or PCs, station data such as available oil and gas, and exportable archive of performed services. A "work in progress" that will gradually see the implementation of additional features.

12 VOLT TECHNOLOGY
Safety and energy saving

The correct flow of the refrigerant or the oil and the control of pressures during the various phases of the A/C service are managed by the " manifold" through the opening and closing of valves at the proper time. While the processes are coordinated by the Software, the force to open and close the valves is generated by the coils through a magnetic field. The new standard provides their power supply at 12V, a tension that is independent of the voltage applied in the country of distribution. A worldwide solution that also allows intelligent control of the applied energy, lower power consumption, lower operating temperature, improved safety and longer life of the components.

AC-SERVICE24
Global, fast and competent

Maximum attention to Customer Connection: at the company's headquarters, a team of experts with deep and extensive know-how is available with a fast, professional and competent customer service.

Moreover, with the online portal www.ac-service24.com Ecotechnics provides a 24-hour service to the mechanic: activation of the A/C station, technical information and documentation, updating of Software or Database, warranty management, spare parts list and Support Request/Troubleshooting/Problem-Solving.

ECK FLAG

High-End for the modern workshop

ECK FLAG is designed for different types of refrigerant. The standard features, WIFI connectivity, gas analyser option and high-quality components make ECK FLAG a benchmark among the most modern A/C charging stations.

Fully automatic climate station for recovery, recycling and charging for R134a or HFO1234yf

- Configuration of the refrigerant during activation with the corresponding R134a or HFO kit
- Large 7" touch screen display for an easy, fast and intuitive navigation
- Energy-saving with 12-volt solenoid valve technology
- Built-in Hybrid feature for the flushing of service hoses and internal circuits. Indispensable for the service on systems with an electric compressor.
- Optional refrigerant analyser to detect % of refrigerant components tested: HFO1234yf, R134a, R22, HC hydrocarbons and air.
- Automatic test of the A/C system under pressure with nitrogen or hydrogen/nitrogen mixture
- Management of 2 oils and 1 tracer - both with hermetic containers that can be filled and with hermetic cartridges
- Automatic purging of non-condensable gases
- 2 large side pockets to comfortably accommodate even longer hoses
- WIFI connection as standard
- Complete database including commercial and agricultural vehicles
- Status light

BUILT-IN HYBRID FEATURE

REFRIGERANT ANALYSER

STANDARD

R134a / HFO KIT | 7" | | | N2 | | | |

OPTION

%

Y1F200000000	**ECK FLAG**
Y1FH00000000	Refrigerant Kit FLAG HFO1234yf
Y1FR00000000	Refrigerant Kit FLAG R134a
Y1FH00000001	Refrigerant Kit FLAG HFO1234 UK
Y1FR00000001	Refrigerant Kit FLAG R134a UK

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ECK FLAG

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ECK NEXT PRO

Flexibility for the workshop

ECK NEXT PRO is designed for different types of refrigerant. ECK NEXT PRO enriches the equipment with an additional oil/tracer container and a cylinder heater. The Hybrid feature is standard. Additional optional features make this station a fast and flexible solution.

Fully automatic climate station for recovery, recycling and charging for R134a or HFO1234yf

• Refrigerant configuration during activation with the corresponding R134a or HFO kit
• Large 5" touch screen display for an easy, fast and intuitive navigation
• Energy-saving with 12-volt solenoid valve technology
• Standard Hybrid for flushing of service hoses and internal circuits. Indispensable for the service on systems with an electric compressor
• Automatic leakage control during the vacuum phase
• Optional refrigerant analyser for % detection of refrigerant components tested: HFO1234yf, R134a, R22, HC hydrocarbons and air.
• Oil and tracer management, both with standard refillable containers and hermetic cartridges
• 2 large side pockets to comfortably accommodate even longer hoses
• WIFI connection available on request
• Complete database including commercial and agricultural vehicles
• Automatic internal cylinder heater

2 CONTAINERS MANAGEMENT HYBRID FUNCTION

LARGE SIDE POCKETS

STANDARD
R134a / HFO
KIT 5"

OPTION
%

Y2NP40000000	ECK NEXT PRO
Y1NH00000000	Refrigerant Kit HFO1234yf
Y1NR00000000	Refrigerant Kit R134a
Y1NH00000001	Refrigerant Kit HFO1234 UK
Y1NR00000001	Refrigerant Kit R134a UK

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ECK NEXT PRO

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ECK NEXT

The versatile solution for the workshop

ECK NEXT is designed for different types of refrigerant. ECK NEXT is characterised by innovative functions, simplicity and the high-quality standard of the components. The station offers high flexibility thanks to aftermarket upgrade possibilities. ECK NEXT, the easy station for the workshop.

**Fully automatic A/C charging station for recovery, recycling and charging for R134a or HFO1234yf**

• Refrigerant configuration during activation with the relevant R134a or HFO kit
• Large 4.3" touch screen display for an easy, fast and intuitive navigation
• Energy-saving with 12-volt solenoid valve technology
• Optional Hybrid kit for flushing service hoses and internal circuits.
  Indispensable for the service on systems with an electric compressor.
• Automatic leakage control during the vacuum phase
• Optional refrigerant analyser for % detection of refrigerant components tested:
  HFO1234yf, R134a, R22, HC hydrocarbons and air.
• Oil management with both standard refillable containers and hermetic cartridges
• 2 large side pockets to comfortably accommodate even longer hoses
• WIFI connection available on request
• Complete database including commercial and agricultural vehicles

REFRIGERANT CONFIGURATION

HYBRID KIT

STANDARD

R134a / HFO **KIT**   4,3"

OPTION

%
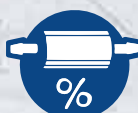
Y1N000000000	**ECK NEXT**
Y1NH00000000	Refrigerant Kit HFO1234yf
Y1NR00000000	Refrigerant Kit R134a
Y1NH00000001	Refrigerant Kit HFO1234 UK
Y1NR00000001	Refrigerant Kit R134a UK

ECK NEXT

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12

ECK TWIN 12

The complete station
for R134a and HFO1234yf

ECK TWIN 12 is the renovated expression of the functional and technological skills of the Ecotechnics brand. Two machines in one is the simple, fast and safe solution. ECK TWIN 12 is renewed by adopting some of the most successful modern technological standards.

Fully automatic A/C charging station for recovery, recycling and charging for R134a and HFO1234yf

- Two independent circuits with specific components for each gas
- New 7" touch screen display for an easy, fast and intuitive navigation
- Energy-saving with 12-volt solenoid valve technology
- Built-in hybrid function for the flushing of service hoses and internal circuits. Indispensable for the service on systems with an electric compressor.
- Optional refrigerant analyser for % detection of refrigerant components tested: HFO1234yf, R134a, R22, HC hydrocarbons and air.
- Automatic test of the A/C system under pressure with nitrogen or hydrogen/nitrogen mixture
- Management of 2 oils and 2 tracers, both with hermetic containers that can be filled and with hermetic cartridges
- Automatic purging of non-condensable gases
- WIFI connection as standard
- Complete database also including commercial and agricultural vehicles
- Innovative and practical cylinder locking system from the outside
- 100V or 110V transformer available as an optional feature

7" TOUCH SCREEN DISPLAY

WIFI CONNECTIVITY

STANDARD

7" | N2 |

OPTION

% |

K6T5A000000B | **ECK TWIN 12**

ECK TWIN 12

OEM Approvals:
PSA**, Renault*, Mitsubishi*, Honda*, Suzuki Italia*, Jaguar-Land Rover*, Toyota Deutschland*
*) ECK TWIN 12 is the evolution of ECK TWIN PRO
**) Approval obtained on ECK TWIN PRO

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ECK 4000 HFO

The top of the range for the HFO1234yf refrigerant. The most modern functions are standard and offer maximum ease of use. All components and materials used are of the highest quality standards. The result is a station
"Full-optional" that integrates all the solutions for the professional management of HFO1234yf refrigerant.

Fully automatic A/C station for recovery, recycling and charging for HFO1234yf

- Wide 7" touch screen display for an easy, fast and intuitive navigation.
- Built-in hybrid feature for the flushing of service hoses and internal circuits. Indispensable for the service on systems with an electric compressor.
- External refrigerant identifier as an aftermarket upgrade option
- Automatic test of the A/C system under pressure with nitrogen or hydrogen/nitrogen mixture
- Management of 2 oils and one tracer, both with refillable hermetic containers and with hermetic cartridges
- Automatic purging of non-condensable gases
- Complete database also including commercial and agricultural vehicles.
- Status light

3 CONTAINERS MANAGEMENT

NITROGEN PRESSURE CONTROL

STANDARD

7" | | N2

OPTION

K592A25HF02H | ECK 4000 HFO

ECK 4000 HFO

OEM Approvals:
PSA, Toyota Deutschland

ECK 3900 *Premium*

The proof of a winning formula

With the highest standard of performance and efficiency on a functional design. This station skilfully combines quality and features to offer a particularly attractive product and high performance for the management of R134a or HFO1234yf.

Fully automatic A/C station for recovery, recycling and charging for R134a or HFO1234yf

- Wide 5" colour display for an easy, fast and intuitive navigation
- Built-in hybrid feature for the flushing of service hoses and internal circuits. Indispensable for the service on systems with an electric compressor.
- Optional external refrigerant identifier
- Automatic test of the A/C system under pressure with nitrogen or hydrogen/nitrogen mixture
- Management of 1 oil and 1 tracer, both with hermetic refillable containers and with hermetic cartridges
- Automatic purging of non-condensable gases
- Complete database also including commercial and agricultural vehicles
- Status light

BUILT-IN HYBRID FUNCTION

GAS IDENTIFIER

STANDARD

N2

OPTION

K5Z3A250093H	**ECK 3900 PREMIUM HFO**
K5Z3A250094R	**ECK 3900 PREMIUM**

ECK 3900 *Premium*

Approvals OEM:
PSA, Renault, Mitsubishi, Honda, Volvo
India: Volkswagen, Skoda, Toyota, Ford, Renault

ECK 1900 PRO

Functionality, design, innovation

ECK 1900 PRO is designed for different types of refrigerant.
ECK 1900 PRO enriches the equipment with an additional oil/tracer container and a cylinder heater. The Hybrid feature is standard. Additional optional features make this station a fast and flexible solution.

Fully automatic climate station for recovery, recycling and charging for R134a or HFO1234yf

• Refrigerant configuration during activation with the corresponding R134a or HFO
• Large 5" touch screen display for an easy, fast and intuitive navigation
• Energy-saving with 12-volt solenoid valve technology
• Standard Hybrid for flushing of service hoses and internal circuits.
  Indispensable for the service on systems with an electric compressor
• Automatic leakage control during the vacuum phase
• Optional refrigerant analyser for % detection of refrigerant components tested:
  HFO1234yf, R134a, R22, HC hydrocarbons and air.
• Oil and tracer management, both with standard refillable containers and hermetic cartridges
• WIFI connection available on request
• Complete database including commercial and agricultural vehicles
• Automatic internal cylinder heater

REFRIGERANT CONFIGURATION

REFRIGERANT ANALYSER

STANDARD

R134a / HFO KIT

5"

OPTION

%

Y2P200000000	**ECK 1900 PRO**
Y1NH00000000	Refrigerant Kit HFO1234yf
Y1NR00000000	Refrigerant Kit R134a
Y1NH00000001	Refrigerant Kit HFO1234 UK
Y1NR00000001	Refrigerant Kit R134a UK

ECK 1900 PRO

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Cinquecento12

Cinquecento12 is the model designed for R134a or HFO refrigerants. The solid metal structure, the choice of known and tested components and the implementation of new technological standards make this station the most performing entry level on the global market.

Fully automatic A/C charging station for recovery, recycling and charging for R134a or HFO1234yf

- Configuration of the refrigerant during activation with the corresponding R134a or HFO kit
- Wide 4.3" touch screen display for an easy, fast and intuitive navigation
- Energy-saving with 12-volt solenoid valve technology
- Optional Hybrid kit for the flushing of service hoses and internal circuits. Indispensable for the service on systems with an electric compressor.
- Oil management both with standard refillable containers and with hermetic cartridges.
- WIFI connection available on request
- Complete database also including commercial and agricultural vehicles
- Thermal printer: factory option
- Front Panel available on request

4,3" TOUCH SCREEN DISPLAY

REFRIGERANT CONFIGURATION

STANDARD

R134a / HFO
KIT

OPTION

Y2V000000000	**Cinquecento12**
Y2V200000000	**Cinquecento12 + stampante**
Y1NH00000000	Refrigerant Kit HFO1234yf
Y1NR00000000	Refrigerant Kit R134a
Y1NH00000001	Refrigerant Kit HFO1234 UK
Y1NR00000001	Refrigerant Kit R134a UK

Cinquecento12

ECK BUS-PRO

Power for large systems

Ecotechnics' special product for the refrigerant R134a. The technical characteristics of ECK BUS PRO allow to manage large climate systems such as those of buses or trains

Fully automatic A/C charging station for recovery, recycling and charging for R134a

- Large capacity 40L internal cylinder
- 1kg/min gear pump for very fast refrigerant refilling
- 170L/min vacuum pump
- 21cc hermetic compressor
- 6m hoses
- Automatic test of the A/C system under pressure with nitrogen or hydrogen/nitrogen mixture
- Management of 1 oil and 1 tracer with standard refillable containers
- Automatic purging of non-condensable gases
- Complete database also including commercial and agricultural vehicles

NITROGEN PRESSURE CONTROL

GEAR PUMP

STANDARD

N2

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XK456A000051 **ECK BUS PRO**

ECK BUS-PRO

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ECK LAND

The mobile station

Ecotechnics' special product for the refrigerant R134a or HFO1234yf. ECK LAND was designed to be easily moved: compact size, low weight, handles and practical hooks for fixing during transport.

Fully automatic A/C charging station for recovery, recycling and charging for R134a or HFO1234yf

• Compact size for an easy movement
• Fully automatic station
• 6m hoses
• Printer
• Oil management with a standard refillable container
• Complete database also including commercial and agricultural vehicles
• Trolley with 4 swivel castors available as an optional extra

PRACTICAL HANDLES

PRINTER

STANDARD

OPTION

GRCAR01.13
Shipment in disassembled kit

K5V2A000000A	**ECK LAND**
K5V2A000000H	**ECK LAND HFO**
GRCAR01.13	TROLLEY FOR **ECK LAND**

ECK LAND

Approvals OEM:
JCB, CLAAS (France)

FEATURES	ECK FLAG	ECK NEXT PRO	ECK NEXT	ECK TWIN 12	ECK 4000 HFO
Type of refrigerant	HFO1234yf or R134a	HFO1234yf or R134a	HFO1234yf or R134a	R134a and HFO1234yf	HFO1234yf
Display	7" colour touchscreen	5" colour touchscreen	4,3" colour touchscreen	7" colour touchscreen	7" colour touchscreen
Service valves	Automatic	Manual	Manual	Automatic	Automatic
Thermal printer	Standard	Standard	Option	Standard	Standard
Hermetic and refillable containers for oil and dye	Standard 2 + 1	Not available	Not available	Standard 2 + 2	Standard 2 + 1
Hermetic disposable containers for oil and dye	Standard 2 + 1	Standard 1 + option 1	Option 1	Standard 2 + 2	Option
Refillable standard containers for oil and dye	Not available	Standard 2	Standard 1	Not available	not available
Hoses	3 meters	3 meters	3 meters	2 pairs, 3 meters each	3 meters
Data Base Car-Truck-Agri	Standard	Standard	Standard	Standard	Standard
Refrigerant Configuration	Standard	Standard	Standard	Not available	not available
Hybrid function / electrically driven compressors	Standard	Standard	Option	Standard	Standard
Pressure test forming gas / nitrogen	Standard	Not available	Not available	Standard	Standard
Gas Identifiier / Gas Analyser	Option, Analyser	Option, Analyser	Option, Analyser	Option, Analyser	Option, Identifiier
Connectivity WIFI	Standard	Option	Option	Standard	not available
Flushing Kit	Option	Option	Option	Option	Option
Leak check in vacuum	Standard	Standard	Standard	Standard	Standard
Non condensable gas purge	Automatic	Manual	Manual	Automatic	Automatic
Voltage	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz
Vacuum pump	100 l/min, vacuum level 0,1 mbar	51 l/min, vacuum level 0,2 mbar	51 l/min, vacuum level 0,2 mbar	100 l/min, vacuum level 0,1 mbar	100 l/min, vacuum level 0,1 mbar
Sealed compressor	1/3 HP	1/3 HP	1/3 HP	2 x 1/3 HP	1/3 HP
Recovery speed	300 g/min in liquid phase	300 g/min in liquid phase	300 g/min in liquid phase	300 g/min in liquid phase	300 g/min in liquid phase
Tank Scale resolution	10 gr	10 gr	10 gr	10 gr	10 gr
Oil scale resolution	5 gr	5 gr	-	5 gr	5 gr
Working temperature range	11/49 °C	11/49 °C	11/49 °C	11/49 °C	11/49 °C
Filter system	1 filter for humidity	1 filter for humidity	1 filter for humidity	2 filters for humidity	1 filter for humidity
Refrigerant tank	12 liters refillable	12 liters refillable	12 liters refillable	2x12 liters refillable	12 liters refillable
Bottle heater	Standard	Standard	Not available	Standard	Standard
Dimension / weight	cm 67 x 68 x 108, 77 kg	cm 67 x 68 x 108, 63 kg	cm 67 x 68 x 108, 63 kg	cm 67 x 62 x 107, 122 kg	cm 55 x 60 x 110, 90 kg
Dimension / weight with packaging	cm 71 x 74 x 125, 95 kg	cm 71 x 74 x 125, 81 kg	cm 71 x 74 x 125, 81 kg	cm 91 x 72 x 126, 132 kg	cm 70 x 70 x 130, 100 kg

FEATURES	ECK 3900 Premium	ECK 1900 PRO	Cinquecento 12	ECK BUS PRO	ECK LAND
Type of refrigerant	HFO1234yf or R134a	HFO1234yf or R134a	R134a or HFO1234yf	R134a	R134a or HFO1234yf
Display	5" colour display	5" colour touchscreen	4,3" colour touchscreen	LCD alphanumeric mm 146 x 82,5	LCD alphanumeric mm 98 x 39
Service valves	Automatic	Manual	Manual	Manual	Manual
Thermal printer	Standard	Standard	Factory Option	Standard	Standard
Hermetic and refillable containers for oil and dye	Standard 2 + 1	Not available	Not available	Not available	Not available
Hermetic disposable containers for oil and dye	Option	Standard 1 + option 1	Option 1	Not available	Not available
Refillable standard containers for oil and dye	Not available	Standard 2	Standard 1	Standard 1+ 1	Standard 1
Hoses	3 meters	3 meters	3 meters	6 meters	6 meters
Data Base Car-Truck-Agri	Standard	Standard	Standard	Standard	Standard
Refrigerant Configuration	Not available	Standard	Standard	Not available	Not available
Hybrid function / electrically driven compressors	Standard	Standard	Option	Not available	Not available
Pressure test forming gas / nitrogen	Standard	Not available	Not available	Standard	Not available
Gas Identifiier / Gas Analyser	Option, Identifiier	Option, Analyser	Not available	Not available	Not available
Connectivity WIFI	Not available	Option	Option	Not available	Not available
Flushing Kit	Option	Option	Not available	Not available	Not available
Leak check in vacuum	Standard	Standard	Not available	Standard	Not available
Non condensable gas purge	Automatic	Manual	Manual	Automatic	Manual
Voltage	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz
Vacuum pump	100 l/min, vacuum level 0,1 mbar	51 l/min, vacuum level 0,2 mbar	51 l/min, vacuum level 0,2 mbar	170 l/min, vacuum level 0,1 mbar	51 l/min, vacuum level 0,2 mbar
Sealed compressor	1/3 HP	1/3 HP	1/3 HP	21 cc	1/3 HP
Recovery speed	300 g/min in liquid phase	300 g/min in liquid phase	300 g/min in liquid phase	300 g/min in liquid phase	300 g/min in liquid phase
Tank Scale resolution	10 gr	10 gr	10 gr	10 gr	10 gr
Oil scale resolution	5 gr	5 gr	-	5 gr	5 gr
Working temperature range	11/49 °C	11/49 °C	11/49 °C	11/49 °C	11/49 °C
Filter system	1 filter for humidity	1 filter for humidity	1 filter for humidity	2 filters for humidity	1 filter for humidity
Refrigerant tank	12 liters (HFO), 22 liters (R134a)	12 liters refillable	12 liters refillable	40 liters refillable	7 liters refillable
Bottle heater	Standard	Standard	Not available	Not available	Standard
Dimension / weight	cm 55 x 60 x 110, 90 kg	cm 55 x 60 x 110, 80 kg	cm 47 x 51 x 97, 54 kg	cm 80 x 84 x 115, 127 kg	cm 51 x 42 x 44, 40 kg
Dimension / weight with packaging	cm 70 x 70 x 130, 100 kg	cm 70 x 70 x 130, 90 kg	cm 69 x 70 x 122, 68 kg	cm 91 x 91 x 126, 137 kg	cm 70 x 70 x 80, 50 kg

Accessories and options
Safe and suitable solutions

A professional and comprehensive climate service in the automotive industry requires, in addition to the climate station, accessories, consumables and items for regular maintenance.
In order to guarantee safe and suitable solutions in the field of climate service, Ecotechnics presents the following range of products and accessories.

STANDARDS AND OPTIONS

The presentation of the stations in this catalogue provides efficient commercial support and make sales activities as easy as possible: the graphic footprint in line with technological evolution and brand image, the attractive display of the stations, synthetic technical descriptions and, finally, icons for immediate understanding of the various standard or optional features.
Below is a brief legend of the Ecotechnics icons.

Thermal printer	Hybrid function	Connectivity WIFI	Pressure test forming gas / nitrogen

Hermetic disposable containers	Hermetic and refillable containers	Refillable standard containers	Refrigerant Configuration

R134a / HFO
KIT

Gas Analyser	Gas Identifiier	Display	Flushing Kit

KIT.GAS (HFO1234yf)
Gas analyzer

KIT.GAS (R134a)
Adapter for KIT.GAS

XS180.000000 (HFO)
XS185.000000 (R134a)
Gas identifier

Verifying the purity of the refrigerant before the climate service is very important because it avoids costs of decontamination of the station, repair of the A/C system and allows the regular disposal of the contaminated gas. The workshop protects the environment and avoids the risks of possible lawsuits. In most Ecotechnics stations, a gas analyzer or gas identifier can be installed.
• The gas identifier verifies the correct purity of the refrigerant with a "pass-fail" test.
• The gas analyzer also detects the percentages of the different refrigerant components.

XS601.00
Saniflux
System designed for the nebulization treatment of the A/C system and the passenger compartment.
Technical specifications
• Power 12V / 3.7A
• 400 ml tank, 4 Services (per refill)
• Weight 2.9kg
• Automatic shutdown
• Liquid level sensors
• Automatic alarms: high temperature, full tank, empty tank

XS601.01
Connection cable for Saniflux

XS601.00 Saniflux

Saniflux is a complete, efficient and fast solution for the workshop. In addition to treatment with Saniflux Liquid (AEK322), the anti-virus product pursuant to EN14476 "Disicide plus + spray refill 1000ml"(AEK325) is also available.
A ready-to-use water-based, solvent-free, alcohol-free liquid for gentle disinfection. Environmentally friendly and safe for the user.

KIT.WIFI-N
WIFI connectivity evo
Aftermarket option for ECK NEXT PRO, ECK 1900 PRO, Cinquecento12, ECK NEXT (from TC2007621)

The WIFI connection as a standard or optional feature has been implemented in the latest Ecotechnics climate stations. Current features include real-time A/C service status display on smartphones, tablets or PCs, station data such as available oil and gas, and the exportable archive of services performed. Further features will be gradually implemented.

CODE

KIT.HYBRID
Kit Hybrid upgrade option for HFO1234yf and R134a

This After-Market option allows adding the Hybrid feature to those climate stations equipped with appropriate software (ECK NEXT, Cinquecento12).

AEK102-N7-R5
Bypass adapter set
The set contains adapters needed to install a bypass of a removed component (e.g. compressor, expansion valve, filter) to the A/C system before cleaning with the Flushing Kit.

AEK207-A (R134a), AEK207-B (HFO1234yf)
Manual injector
This device is perfect for manual injection of specific oils or tracers. An easy-to-use solution even for climate stations without the oil injection or tracer feature.

CNT4012
40 L bottle
per R134a
R22
R404a
R507
R407C

AEK302
ELECTRONIC SCALE
100kg capacity

AEK317
Double valve extractor screwdriver

185.000001
EASYREC PRO
(HFO & R134a)
The mobile equipment for the complete extraction of different types of refrigerant from air conditioning systems (CFC, HCFC, HFC, fuel). With Easyrec Pro, a mobile scale (AEK302) and a recycling tank, contaminated or unknown refrigerants can be easily and quickly extracted from air conditioning systems without the use of laborious procedures such as dry ice or other processes.

National or local regulations require the coordinated and controlled disposal of these contaminated refrigerants. With Easyrec Pro, the responsible workshop can easily manage the appropriate recycling process and thus make a valuable contribution to environmental protection.
The package includes the 1.5 m service hose for the system (blue), 3 connections for HFO1234yf, R134a and 1/4" SAE and the 1.5 m hose for connecting Easyrec Pro to the cylinder (yellow).

AEK102-N21   **Flushing Kit**
AEK102-N21-1   **Kit HFO for Flushing Kit AEK102-N21**
AEK102-N21-2   **Kit R134a for Flushing Kit AEK102-N21**

If the compressor or other components of a climate system break down, you must remove any possible residue that may be found in the system before reassembling the equipment. Many compressor manufacturers do not guarantee their new components unless the A/C system is cleaned before installation.

The advantages of this flushing kit are:
• Environmentally friendly because no solvents are used but only refrigerant
• Very efficient cleaning thanks to the high washing speed obtained with the vacuum in the tank
• Patented universal adapters for creating bypasses
• The amount of refrigerant can be defined by the user (washing a component rather than a system)
• Time-saving and efficiency thanks to the fast process and fully automatic cycles

DATA BASE UPDATE

DB.AUTOAGRI
Data Base update for car, commercial, agricultural vehicles

AEK120-E
Digital Thermometer

KIT.STM
Thermal Printer Upgrade option (ECK Next, ECK 1900 Premium)

IMB0011
DUST COVER

IMB0026
DUST COVER BUS-TWIN

IMB0036
DUST COVER Pro

KIT.PLA0001
Front Plastic Cover x Cinquecento

KIT.TRF110
External transformer 110V-220V (ECK TWIN 12)

KIT.TRF100
External transformer 100V-220V (ECK TWIN 12)

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Connectors and hoses
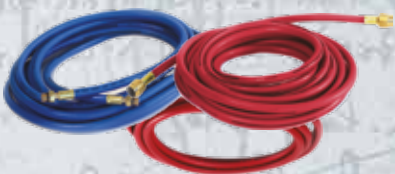
For the daily climate service, in addition to the replacement of wear parts, maintenance items, products for repairs, connectors, hoses and adapters are also required. Here is a selection of the necessary products.

Simply and efficient

Information sheet for the correct combination of station, service hose and quick coupling

A/C STATION			TUBO DI SERVIZIO	QUICK COUPLER
Refrigerant	Model	Connector	Lato stazione - Lato attacco rapido	
HFO	ECK 4000 HFO* ECK 3900 Premium HFO*	female M12 x 1,5	male M12 x 1,5 - male M12 x 1,5 *red hose 3 mt. tub2132* *blu hose 3 mt. tub2122* *red hose 6 mt. tub2136* *blu hose 6 mt. tub2126*	Quick coupler HFO (female M12 x 1,5) Adapter not necessary
R134a or Kit HFO/R134a	ECK TWIN 12 ECK FLAG ECK NEXT PRO ECK NEXT ECK 1900 Premium Cinquecento 12 ECK BUS PRO ECK 3900 Premium*	male 1/2 ACME	female. 1/2 ACME - male M14 x 1,5 *red hose 3 mt. TUB2147* *blu hose 3 mt. TUB2146* *red hose 6 mt. TUB1148* *blu hose 6 mt. TUB1149*	Quick coupler R134a (female M14 x 1,5) Adapter not necessary Quick coupler HFO (female M12 x 1,5) Adapter RAC5216
R134a HFO	ECK LAND ECK LAND HFO	male 1/4 SAE	male 1/4 SAE - female 1/4 SAE *red hose 6 mt. TUB1145* *blu hose 6 mt. TUB1144*	Quick coupler R134a 1/4 SAE Quick coupler HFO (female M12 x 1,5) AEK229A, AEK 229B: Adapter ¼ SAE included

*Hose length 3,8 meter; see spare parts list

	TUB2132	*RED HOSE 3 MT. HFO*
	TUB2122	*BLU HOSE 3 MT. HFO*
	TUB2136	*RED HOSE 6 MT. HFO*
	TUB2126	*BLU HOSE 6 MT. HFO*
	TUB2147	*RED HOSE 3 MT. R134a*
	TUB2146	*BLU HOSE 3 MT. R134a*
	TUB1148	*RED HOSE 6 MT. R134a*
	TUB1149	*BLU HOSE 6 MT. R134a*
	TUB1145	*RED HOSE 6 MT. 1/4" SAE*
	TUB1144	*BLU HOSE 6 MT. 1/4" SAE*

	AEK1234A	High quality QUICK COUPLER HP HFO Parker
	AEK1234B	High quality QUICK COUPLER LP HFO Parker
	AEK208A	High quality QUICK COUPLER HP R134a Parker
	AEK208B	High quality QUICK COUPLER LP R134a Parker
	AEK228A	QUICK COUPLER HP R134a
	AEK228B	QUICK COUPLER LP R134a
	AEK229A	QUICK COUPLER HP HFO1234yf
	AEK229B	QUICK COUPLER LP HFO1234yf
	AEK230A	QUICK COUPLER HP R134a 1/4" SAE
	AEK230B	QUICK COUPLER LP R134a 1/4" SAE
	AEK218 - A	HP "puff free" coupler for HFO
	AEK218 - B	LP "puff free" coupler for HFO
	AEK224 - A	HP "puff free" coupler for R134
	AEK224 - B	LP "puff free" coupler for R134a
	AEK211	Special quick-connect coupling R134a (Ford, BMW)
	AEK277	Special quick-connect coupling HFO1234yf (Ford)

	AEK109A	Terminal valve, high pressure 1/4" SAE
	AEK109B	Terminal valve, low pressure 1/4" SAE
	AEK116 - 1	Adapter for refrigerant bottles for R134a
	AEK213	Nitrogen coupler for A/C machines
	AEK318	Fitting HFO W 21.7 x 1/14" LH for Dupont bottle
	AEK319	Fitting HFO ½"-16 ACME LH for Honeywell bottle
	AEK320	Fitting LP for bottle R134a
	RAC5216	Fitting hose M14 x 1,5 HFO coupler M12 x 1,5

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Consumables and containers

1. Simple solution for the user
2. Everything for both HFO and R134a
3. Mechanical and electric compressor
4. Choice of bottles or hermetic cartridges
5. Focused on the most used PAG / POE and viscosity standards
6. Sales Unit = 6

Oil / Tracer	PAG / POE	Viscosity	Bottle		Cartridge	
Oil	PAG	100	AEK275	250 ml	AEK275 - N	250 ml
		46	AEK276	250 ml	AEK276 - N	250 ml
	POE	68	AEK285	250 ml	AEK285 - N	250 ml
Oil / Tracer	POE	85	AEK386	250 ml	AEK386 - N	250 ml
Tracer			AEK290	250 ml	AEK290 - N	125 ml

AEK275	OIL PAG	100	Oil bottle PAG100 - 250ml for R134a, HFO1234yf mechanical and electric compressor	
AEK275-N			Sealed oil cartridge PAG100 - 250ml for R134a, HFO1234yf mechanical and electric compressor	
AEK276		46	Oil bottle PAG46 - 250ml for HFO1234yf, R134a mechanical and electric compressor	
AEK276-N			Sealed oil cartridge PAG46 - 250ml for R134a, HFO1234yf mechanical and electric compressor	
AEK285	OIL POE	68	Oil bottle POE68 - 250ml for R134a, HFO1234yf mechanical and electric compressor	
AEK285-N			Sealed oil cartridge POE68 - 250ml for R134a, HFO1234yf mechanical and electric compressor	
AEK386	OIL POE + TRACER	85	Oil + dye bottle POE85 - 250ml for R134a, HFO1234yf mechanical and electric compressor	
AEK386-N			Sealed oil + dye cartridge POE85 - 250ml for R134a, HFO1234yf mechanical and electric compressor	
AEK290	TRACER		Dye bottle - 250ml for R134a, HFO1234yf mechanical and electric compressor	
AEK290-N			Sealed dye cartridge 125ml for R134a, HFO1234yf mechanical and electric compressor	

AEK203-C
Sealed bottle of tracer (55ml)
SALES UNIT = 5

AEK322
Bottle of Sanniflux Liquid (1000 ml)
SALES UNIT = 6

RAC8088
Adapter for previous dye cartridges

RAC9000
Adapter for previous oil cartridges

GRCNT16 GRCNT17 GRCNT18 GRCNT19

Refillable and hermetic container (260 ml)

TAP0051-KIT
Cap for HR container kit 10 pc.

AEK325
Disicide plus+ spray refill, 1000 ml 035025
SALES UNIT = 12

STM0012-KIT
Thermal paper for printer kit 10 pc.

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Leak Detector

	AEK178	Electronic Leak Detector, one instrument for identifying R134a, HFO1234yf and Hydrogen
	AEK203	Cobra Kit HD- Leak detector for A/C circuits including goggles, UV Cobra lamp, hermetic dye cartridge 55 ml for 7 applications, dye injector (R134a)
	AEK145	UV cobra led lamp, fluorescent enhanced goggles
	AEK304N	**WITH NITROGEN HYDROGEN BOTTLE** Universal nitrogen leak detection kit with nitrogen hydrogen bottle (950ml) with quick couplers R134a and HFO
	AEK304S	**WITHOUT NITROGEN HYDROGEN BOTTLE** Universal nitrogen leak detection kit without nitrogen hydrogen bottle (950ml) with quick couplers R134a and HFO
	AEK305	Nitrogen + H2 bottle (950ml)

Maintenance

	KIT016	Maintenance Kit. Includes 1 bottle 500ml of vacuum pump oil + 1 filter FLT5005
	KIT017	Maintenance Kit. Includes 1 bottle 500ml of vacuum pump oil + 1 filter FLT5512
	KIT018	Maintenance Kit. Includes 1 bottle 500ml of vacuum pump oil + 1 filter FLT5005 + 1 fiter FLT5006
	PMP3335	Vacuum pump oil 500 ml ISO46
	TUB1260	Gas sample hose (HFO) for gas analiser and identifier
	TUB1263	Gas sample hose (R134a) for gas analiser and identifier
	FLT5507	Filter for gas analiser & identifier
	FLT8006	Filter for Flushing Kit 30µ
	FLT8008	Filter for Flushing Kit 20µ

Part Number

ECK FLAG	Y1F200000000
Refrigerant Kit FLAG HFO1234yf	Y1FH00000000
Refrigerant Kit FLAG R134a	Y1FR00000000
Refrigerant Kit FLAG HFO1234yf UK	Y1FH00000001
Refrigerant Kit FLAG R134a UK	Y1FR00000001
ECK NEXT PRO HYBRID	Y2NP40000000
ECK NEXT	Y1N000000000
ECK 1900 PRO	Y2P200000000
Cinquecento12	Y2V000000000
Cinquecento12 + printer	Y2V200000000

Refrigerant Kit HFO1234yf	Y1NH00000000
Refrigerant Kit R134a	Y1NR00000000
Refrigerant Kit HFO1234yf UK	Y1NH00000001
Refrigerant Kit R134a UK	Y1NR00000001
ECK TWIN 12	K6T5A000000B
ECK 4000 HFO	K592A25HF02H
ECK 3900 PREMIUM HFO	K5Z3A250093H
ECK 3900 PREMIUM	K5Z3A250094R
ECK BUS PRO	XK456A000051
ECK LAND	K5V2A000000A
ECK LAND HFO	K5V2A000000H

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