# ECOTECHNICS

## SIMPLY EFFICIENT

PRODUCT CATALOGUE **2021 / 2022**

EN

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ECOTECHNICS
SIMPLY EFFICIENT

Ecotechnics is a specialised international brand and landmark for the maintenance of air conditioning systems in the automotive industry. The key to success is ongoing research for improvement and the efficiency of technical solutions for the workshop. To meet workshop needs and business opportunities, the corporate programme focuses on product performance, on service before and after the purchase, and on a network of highly competent partners worldwide. The overall goal is to offer most friendly solutions for the workshop and the environment, solutions that are both simple and efficient.

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.

**ECOTECHNICS**

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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.

# Ecotechnics **Highlights**

## "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.

## 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.

## 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.

R1234yf: 0 %  R22: 0 %  Air: 0 %
R134a: 100 %  Hydrocarb: 0 %

## 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.

R1234yf
R134a

## 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.
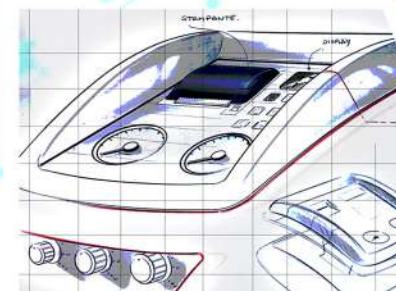In addition to the integrated system of the standard feature, an innovative aftermarket upgrade solution has been developed (KIT.HYBRID for ECK NEXT, ECK 1900 PREMIUM and Cinquecento12).

## 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.

## Project: Technological Standard
### 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.

## 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**
## An innovative experience

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.

**STANDARD**

**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.
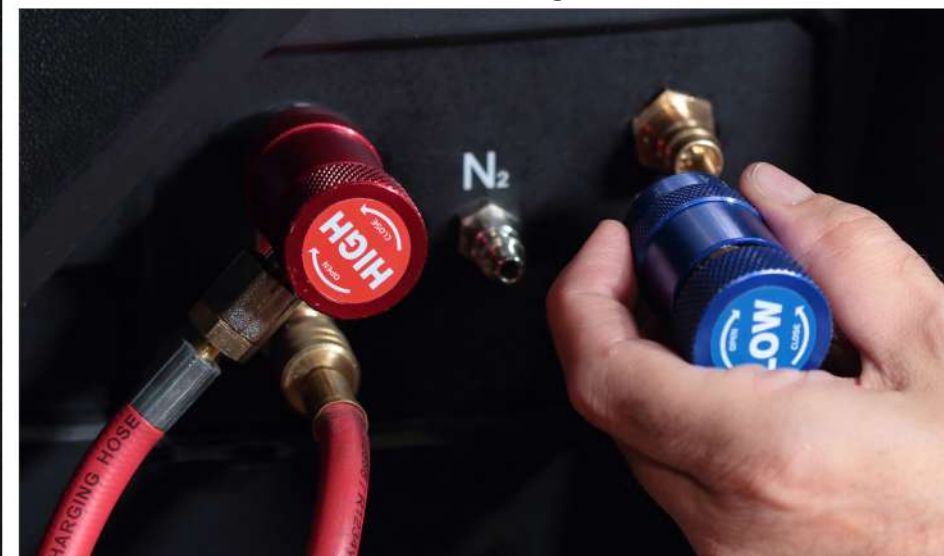• Status light

**OPTION**

**Built-in hybrid feature**

**Refrigerant analyser**

# ECK **NEXT PRO**
## Flexibility for the workshop

**ECOTECHNICS**
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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.



**STANDARD**

R134a / HFO
**KIT**

5"

**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 kit 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

**OPTION**

%

**2 containers management**



**Hybrid kit**

# ECK **NEXT**
## The versatile solution for the workshop

**ECOTECHNICS**

SIMPLY EFFICIENT

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.

## STANDARD

R134a / HFO
**KIT**

4,3"

**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
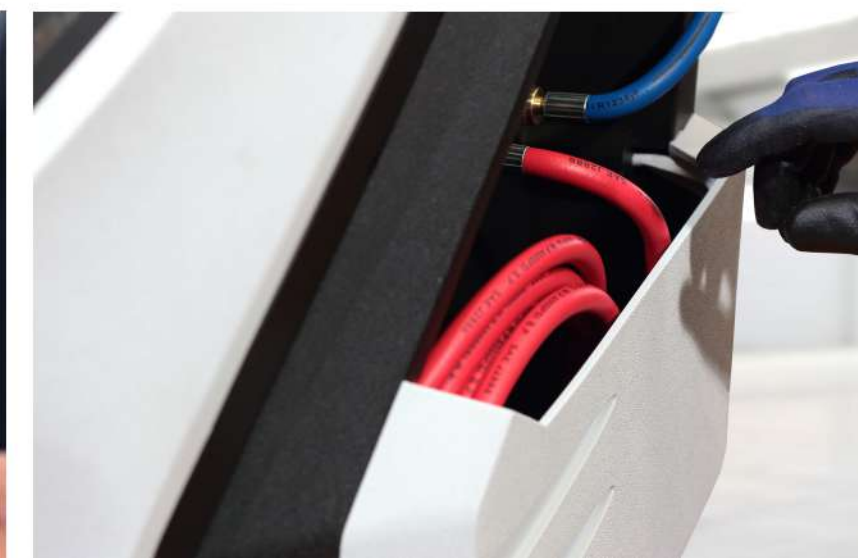• Complete database including commercial and agricultural vehicles

## OPTION



## Refrigerant configuration



## Large side pockets

# ECK **TWIN** 12

## The complete station for R134a and HFO1234yf

**ECOTECHNICS**

SIMPLY EFFICIENT

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

**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

## OPTION



7" touch screen display

WIFI connectivity

# ECK **4000** / ECK **4000 HFO**
## Chosen by the most trusted manufacturers


**ECOTECHNICS**
SIMPLY EFFICIENT

The top of the range for HFO1234yf refrigerant. The most modern functions are standard and offer maximum ease of use. The ECK 4000 is designed and approved according to VDA (German Association of the Automotive Industry) and EGEA (European Garage Equipment Association).

**STANDARD**

**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 (optional for ECK4000 HFO, standard and integrated for ECK4000)
• 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

**OEM Approvals ECK 4000:**
Opel-Vauxhall

**OEM Approvals ECK 4000 HFO:**
PSA, Toyota Deutschland

ECK4000

**OPTION**

ECK4000 HFO

**3 containers management**

**Nitrogen pressure control**

# ECK **3900** PREMIUM
## The proof of a winning formula



**ECOTECHNICS**
SIMPLY EFFICIENT

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.

**STANDARD**

**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

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

**OPTION**

**Built-in hybrid function**



**Gas Identifier**

# ECK **1900** PREMIUM
## Functionality, design, innovation

ECK 1900 PREMIUM is the model designed for different types of refrigerant. The innovative functions, simplicity and high-quality components characterise this station in its functional design. ECK 1900 PREMIUM is a flexible solution for the workshop.

**ECOTECHNICS**
**SIMPLY EFFICIENT**

**STANDARD**

R134a / HFO
**KIT**

5"

**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 5" 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 the 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
• WIFI connection available on request
• Complete database also including commercial and agricultural vehicles

**OPTION**

**Refrigerant configuration**

**WIFI connection**
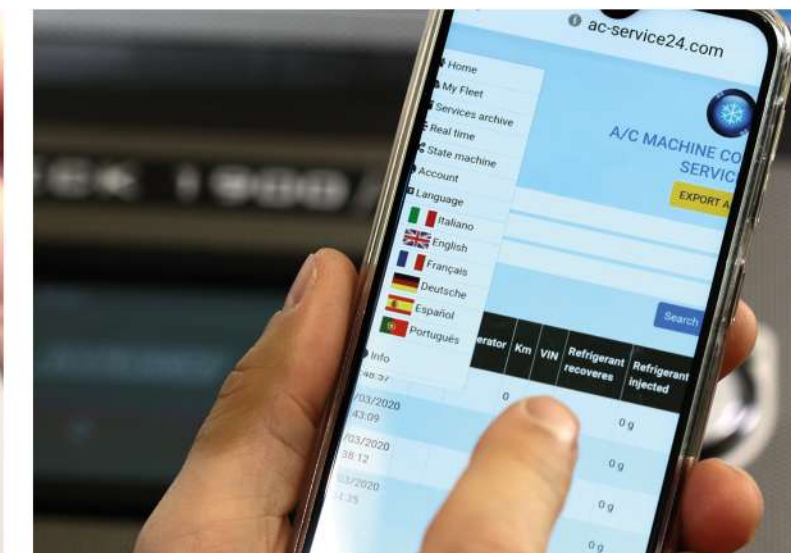
# Cinquecento12
## Compact, economic, modern

**ECOTECHNICS**

SIMPLY EFFICIENT

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.

R134a / HFO
**KIT**

4,3"

**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

**OPTION**

**4,3" touch screen display**
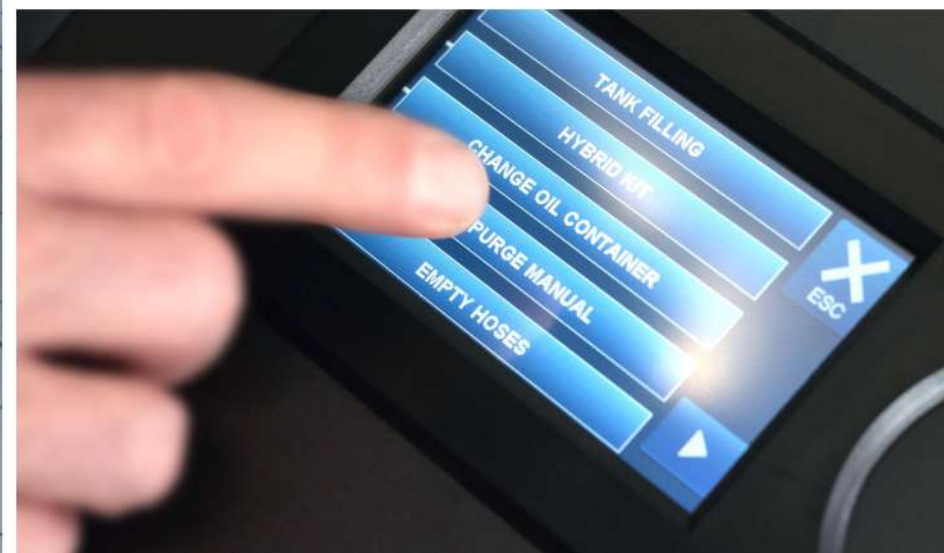
**Refrigerant configuration**

# ECK **BUS** PRO
## Power for large systems

**ECOTECHNICS**

SIMPLY EFFICIENT

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**

# 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.

**STANDARD**

**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

**OEM Approvals:** JCB, CLAAS (France)

**OPTION**

GRCAR01.13

**Practical handles**

**Printer**

| FEATURES | ECK FLAG | ECK NEXT PRO | ECK NEXT | ECK TWIN 12 | ECK 4000 / 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 | Standard, Identifiier/Option |
| 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 Premium | 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 | Option | 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 | Not available | Not available |
| Refillable standard containers for oil and dye | Not available | Standard 1 | 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 | Option | 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 |
| 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 | Not available | 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, leakage control solutions 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.

**ECOTECHNICS**
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**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.

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

**KIT.WIFI** WIFI connectivity Aftermarket option for 1900 PREMIUM, ECK NEXT (up to TC2007621)

**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 "Discide 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.

**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**

**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.

**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, ECK 1900 PREMIUM, Cinquecento12).

**AEK102-N14-5 (R134a)  AEK102-N14-6 (HFO1234yf)**
**Flushing Kit**

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
• Time-saving and efficiency thanks to the fast process and fully automatic cycles.

**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).

**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

**DATA BASE UPDATE**

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

**SCH8220**
USB RS232 adapter (VA_Cinquecento)

**AEK120-E**
Digital Thermometer

**KIT.STM**
Thermal Printer Upgrade option

**IMB0011**
Dust cover

**IMB0026**
Dust cover BUS-TWIN

**IMB0036**
Dust cover PRO

**KIT.PLA0001**
Front Cover (Cinquecento12)

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

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

**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 | Display | Refrigerant Configuration |
| Gas Analyser | Gas Identifiier | Refillable standard containers | Flushing Kit |

# 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.

**AEK109A**
Terminal valve high pressure 1/4" SAE

**AEK109B**
Terminal valve, low pressure 1/4" SAE

**AEK116-1**
Adapter for refrigerant bottles for R134a

**AEK1234A**
Quick coupler HP HFO

**AEK1234B**
Quick coupler LP HFO

**AEK208A**
Quick coupler HP R134a

**AEK208B**
Quick coupler LP R134a

**AEK211**
Special quick-connect coupling R134a (Ford, BMW)

**AEK277**
Special quick-connect coupling HFO1234yf (Ford)

**AEK228A**
Quick coupler HP R134a

**AEK228B**
Quick coupler LP R134a

**AEK229A**
Quick coupler HP HFO

**AEK229B**
Quick coupler LP HFO

**AEK230A**
Quick coupler HP R134a 1/4" SAE

**AEK230B**
Quick coupler LP R134a 1/4" SAE

**AEK213**
Nitrogen coupler for A/C machines

**AEK218A**
HP "puff free" coupler for HFO

**AEK218B**
LP "puff free" coupler for HFO

**AEK224A**
HP "puff free" coupler for R134

**AEK224B**
LP "puff free" coupler for R134a

**AEK318**
Fitting for Dupont bottle
**AEK319**
Fitting for Honeywell bottle

**AEK320**
Fitting LP for bottle R134a

**TUB2122**
Blu hose 3 mt HFO

**TUB2132**
Red hose 3 mt HFO

**TUB2126**
Blu hose 6 mt HFO

**TUB2136**
Red hose 6 mt HFO

**TUB1144**
Red hose 6 MT. 1/4" SAE

**TUB1145**
Blu hose 6 MT. 1/4" SAE

**TUB2146**
Red hose 3 mt. R134a

**TUB2147**
Blu hose 3 mt. R134a

**TUB1148**
Red hose 6 mt. R134a

**TUB1149**
Blu hose 6 mt. R134a

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# Consumables and containers

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

### AEK250-N
Sealed oil cartridge PAG46 250ml for R134a mechanical compressor
**SALES UNIT = 6**

### AEK255-N
Sealed oil cartridges PAG100 - 250ml for R134a mechanical compressor
**SALES UNIT = 6**

### AEK265-N
Sealed oil cartridge PAG100 - 250ml for R134a, HFO1234yf mechanical compressor
**SALES UNIT = 6**

### AEK285-N UNIVERSAL
Sealed oil cartridge POE68 - 250ml for R134a HFO1234yf mechanical and electric compressor
**SALES UNIT = 6**

### AEK270-N UNIVERSAL
Sealed dye cartridge 125ml for R134a, HFO1234yf mechanical and electric
**SALES UNIT = 6**

### AEK286-N UNIVERSAL
Sealed oil + dye cartridges 250ml for R134a HFO1234yf mechanical and electric compressor
**SALES UNIT = 6**

### AEK275 UNIVERSAL
Oil bottle PAG100 - 250ml for R134a HFO1234yf mechanical and electric compressor
**SALES UNIT = 6**

### AEK276 UNIVERSAL
Oil bottle PAG46 - 250ml for R134a HFO1234yf mechanical and electric compressor
**SALES UNIT = 6**

### AEK280
Oil bottle PAG46 - 250ml for R134a and mechanical compressor
**SALES UNIT = 6**

### AEK281
Oil bottle PAG100 - 250ml for R134a and mechanical compressor
**SALES UNIT = 6**

### AEK283
Oil bottle POE100 - 250ml for R134a and electric compressor
**SALES UNIT = 6**

### AEK290 UNIVERSAL
Dye bottle 250ml for R134a HFO1234yf mechanical and electric compressor
**SALES UNIT = 6**

### AEK296 UNIVERSAL
Oil + dye bottle 250ml for R134a HFO1234yf mechanical and electric compressor
**SALES UNIT = 6**

### AEK322
SANIFLUX LIQUID Bottle (1000 ml)
**SALES UNIT = 6**

**GRCNT16  GRCNT17  GRCNT18  GRCNT19**
Refillable and hermetic container 260ml

### RAC8088
Adapter for previous dye cartridges

### RAC9000
Adapter for previous oil cartridges

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

### TAP0051-KIT
Closure for hermetic container kit box 10 pc.

### STM0012-KIT
Printer paper, box 10 pc.

# Leak detection

### AEK304N
Universal nitrogen leak detection kit with nitrogen hydrogen bottle (950ml) with quick couplers R134a and HFO

### 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)

### AEK178
Electronic Leak Detector, one instrument for identifying R134a, HFO1234yf and Hydrogen

### AEK305
Nitrogen + H2 bottle (950ml)

### AEK145
UV cobra led lamp, fluorescent enhanced goggles

# Maintenance

### KIT016
**Maintenance Kit** includes 1 bottle 500ml of vacuum pump oil + 1 filter FLT5005

### PMP3335
**Vacuum pump oil** 500 ML. ISO46
**SALES UNIT = 12**

### FLT8006
**Filter** for Flushing Kit 30μ (R134a)

### FLT8008
**Filter** for Flushing Kit 20μ (HFO)

### KIT017
**Maintenance Kit** includes 1 bottle 500ml of vacuum pump oil + 1 filter FLT5512

### TUB1260 (HFO) TUB1262 (R134a)
Gas sample hose (HFO) for gas analiser & identifier

### FLT5507
**Filter** for gas analiser & identifier

### KIT018
**Maintenance Kit** Includes bottle 500ml of vacuum pump oil + 1 filters FLT5005 and 1 fiter FLT5006

# Part number

| | | | | |
|---|---|---|---|---|
| **ECK FLAG** | Y1F200000000 | | Refrigerant Kit R134a | Y1NR0000000 |
| Refrigerant Kit FLAG HFO1234yf | Y1FH00000000 | | Refrigerant Kit HFO1234yf UK | Y1NH0000001 |
| Refrigerant Kit FLAG R134a | Y1FR00000000 | | Refrigerant Kit R134a UK | Y1NR0000001 |
| Refrigerant Kit FLAG HFO1234yf UK | Y1FH00000001 | | **ECK TWIN 12** | K6T5A000000B |
| Refrigerant Kit FLAG R134a UK | Y1FR00000001 | | **ECK 4000** | K592A25VD40H |
| **ECK NEXT PRO** | Y2NP30000000 | | **ECK 4000 HFO** | K592A25HF02H |
| **ECK NEXT** | Y1N000000000 | | **ECK 3900 PREMIUM HFO** | K5Z3A250093H |
| **ECK 1900 PREMIUM** | Y1P000000000 | | **ECK 3900 PREMIUM** | K5Z3A250094R |
| **Cinquecento12** | Y2V000000000 | | **ECK BUS PRO** | XK456A000051 |
| **Cinquecento12 + printer** | Y2V200000000 | | **ECK LAND** | K5V2A000000A |
| Refrigerant Kit HFO1234yf | Y1NH0000000 | | **ECK LAND HFO** | K5V2A000000H |

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a unico socio

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