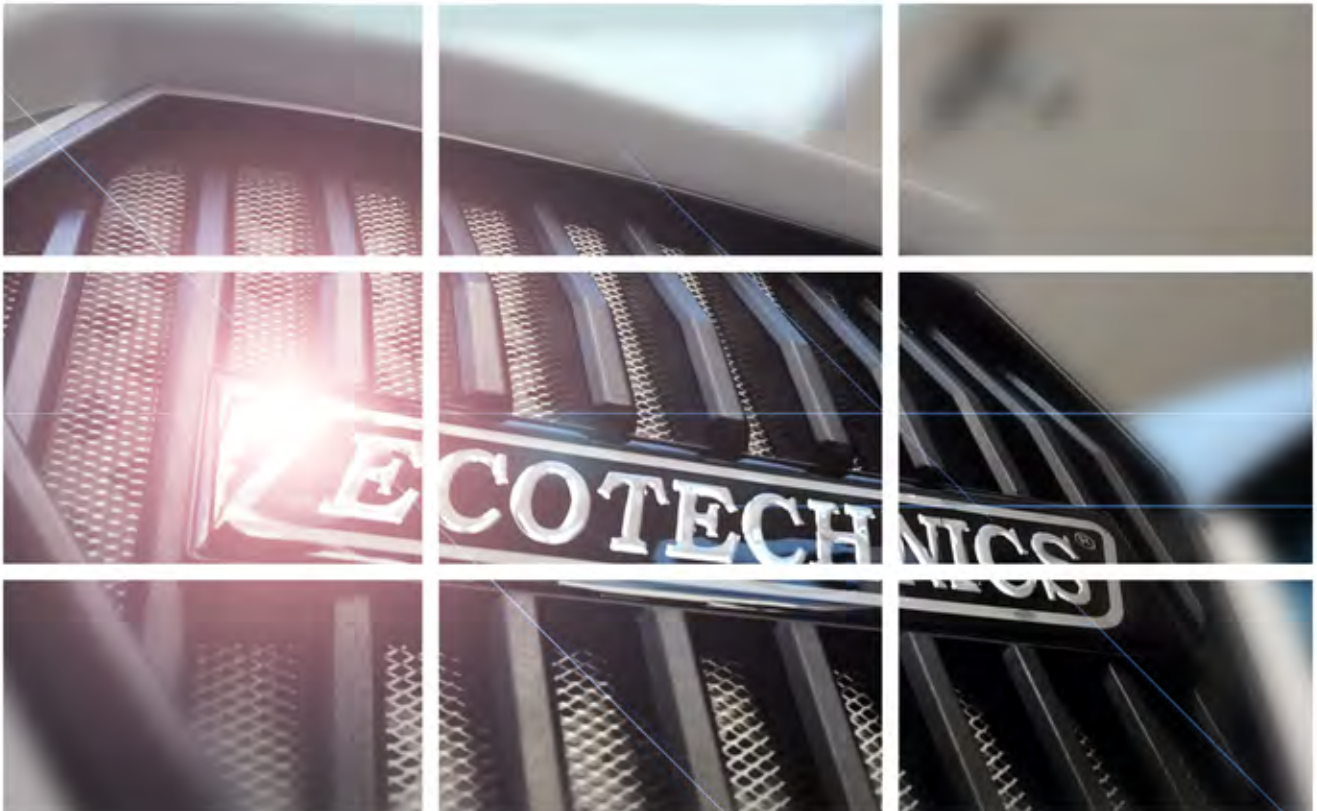


ECOTECHNICS®

SIMPLY EFFICIENT



PRODUCT CATALOGUE
2020/2021

EN

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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.

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SIMPLY EFFICIENT

Brand History

Ecotechnics. Over 20 years of innovation...

...towards the future

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.



Patented solutions

Ecotechnics. The key to our success

Features



The key to the success of the company is ongoing research for improvement and focus on always 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. A short description of some representative samples of Ecotechnics' patents is given below.

✓ REFRIGERANT CONFIGURATION

Constant product availability and fast delivery are crucial for any competent logistic organisation. The latest and most future-oriented result of our research and development team further highlights Ecotechnics' patented solutions: handle with the "neutral" A/C Service Station, separately manage the different Refrigerant Kits and decide which are the desired refrigerant types only at the "last minute".

✓ ALUMINIUM MANIFOLD

The patented and extremely compact aluminium manifold makes the A/C station unique and fast by shortening distances to enhance both efficiency and reliability. Working time is noticeably shorter even with high outside temperatures and intensive use. Internal leaks are thus reduced to a technically possible minimum and constitute a precious contribution to environmental protection, while also ensuring high efficiency of the work processes.

✓ HYBRID

The patented Ecotechnics system allows to run this flushing cycle automatically with the dedicated couplings integrated into the station for the connection of service hoses. The system's extraordinary performance is given by "real loop" flushing.

✓ VACUUM ASSIST

Vacuum Assist is the function that uses Vacuum Pump and Compressor at the same time during the recovery phase. Especially at the end of this process, the pressure is slightly below zero, the temperature is low and, consequently, the recovery of residual refrigerant becomes very slow. Ecotechnics' "Vacuum Assist" function also endows the compressor with the power of the Vacuum Pump for a fast, efficient and clean recovery phase.

✓ RECHARGING PRECISION

To ensure the utmost precision, Ecotechnics has developed a specific algorithm to control valve opening and closing at the end of gas charging. In combination with the process of pushing vapour refrigerant to empty the hoses, it maintains a highly precise recharging process.

✓ DEVICE FOR OIL SEPARATION

During the recovery & recycling process at high ambient temperature, the oil mixed with gas that reaches the separator is very volatile and can easily reach the machine's compressor, causing oil accumulation and possible damage. The system patented by Ecotechnics provides a metal barrier mechanism studied to prevent the accumulation of oil in the compressor.



MAXIMUM RECOVERY PERCENTAGE

Experience acquired in the American market and the development of cutting edge technological solutions have drastically improved Product performance. Ongoing research for perfection has increased the recovery efficiency of refrigerant to values in excess of 98% with filling accuracy better than 1%. An outcome that benefits both the environment and workshop economy.



HIGHLY USER-FRIENDLY INTERFACE

Ecotechnics' menu navigation is intuitive, professional and designed for rapid interaction with the machine. A special user experience is the 7" colour touchscreen. The user is guided through the various processes and options with pictures, descriptions and instructions. Even inexperienced users are safely guided through the air conditioning service.



CONNECTIVITY

The latest Ecotechnics air conditioning stations come with Wi-Fi connection that displays on Smartphones, tablets or PCs the A/C service status in real time, the station's data, such as lubricant and gas available, and the exportable archive of the services provided. A "work in progress" that will gradually implement additional functions, such as integration with the workshop's management system or automatic software updates.



REFRIGERANT ANALYSER

The Ecotechnics line proposes the option of installing a refrigerant analyser. Compared to traditional systems that perform a "pass-fail" test, this professional tool detects the percentage of various components present in the refrigerant recovered. Such a device ensures safety and environmental protection, besides contributing to avoid unforeseen costs of repairing a contaminated station.



HERMETIC CONTAINERS

Clean handling of compressor oil of various standards and types. Ecotechnics offers hermetic disposable (HD) and hermetic refillable (HR) containers. Both solutions are designed to exclude moisture absorbed by the hygroscopic features of A/C oil and dye. Disposable containers offer the benefit of adequate quality standards of used oil (Ecotechnics oil recommended) and maintain constant dealer-workshop relations. Refillable containers offer the advantage of enhanced user comfort, and keep the workshop independent from the supplier.



HYBRID

The new A/C systems on many latest generation vehicles, such as hybrid or electric vehicles, are equipped with compressors operated by high voltage electric motors containing dedicated high performance electrical insulating oil. Use of non-insulating oil could be dangerous for the operator during A/C system testing; therefore, preliminary flushing of both the station and of service hoses is mandatory. The patented hybrid function is a very efficient cleaning system, and the special technology ensures a safe service.

ECK FLAG

The most advanced technology at the service of the mechanic

ECK FLAG is the new model designed for different types of refrigerant. Future-oriented standard features, WIFI connectivity and premium quality components make ECK FLAG an ambassador among most modern A/C service stations.



Fully automatic A/C service station for recovery, recycling and recharging of different types of refrigerant. The innovative and exclusive solution allows to set the R134a or HFO1234yf gas directly during activation in the workshop.

The ECK FLAG is the most modern expression of Ecotechnics' competences. It introduces WI-FI connectivity to the Ecotechnics product range. All Ecotechnics features are standard, from the very clean and safe hybrid function and pressure test with forming gas or nitrogen.

Menu navigation is intuitive, professional, easy and designed for rapid work with the machine. The 7" colour touchscreen offers a special user experience. The unit is equipped with the original Ecotechnics hermetic universal oil and dye (AEK285-N, AEK270-N) and with hermetic and refillable containers as well. With its advanced technology based on an innovative solenoid valve system, ECK FLAG consumes less than 20% energy, compared to the previous models.

The upgrade with the Gas Analyser detects the different components of the refrigerant, and the result provides information about their percentages. Further, this innovative solution offers the benefit of an external Analyser (no contamination of the A/C Station) without taking up any external space.

The futuristic design conceived by a designer expert in the motorcycle industry was applied to the machine's features by exploiting information provided by numberless workshops organised by Ecotechnics over the years.

The result is easy serviceability: less than 30" to open the revolving control panel and less than 2 min. to remove both plastic covers and access all the internal components.

Further, ECK FLAG grants excellent manoeuvrability as a result of the considerable axial distance between the two wheels. User-friendly features: pressure gauges and touch screen are perfectly inclined for excellent ergonomics.

ECK NEXT PRO

Functional improvement for today's mechanic

ECK NEXT PRO is the latest model designed for various types of refrigerants. ECK NEXT PRO enriches its accessories with an additional oil/dye container and a bottle heater, thus turning this station into a rapid and flexible solution for all temperatures.

Fully automatic A/C charging station for recovery, recycling and charging of various types of refrigerant. This exclusive innovative solution allows to set the refrigerant R134a or HFO1234yf directly during activation with the relative kit. ECK NEXT PRO offers excellent value for money. Easy to use with its 5" touchscreen display, its modular features adapt to the workshop's specific requirements and future needs. A new gas analyser is an additional option. It recognises the various components of the refrigerant and yields information about their percentages.

It also offers the advantage of being an external device (there is no risk of contaminating the station). Indeed, it is perfectly integrated and does not occupy any external space. The optional Hybrid kit and Wi-Fi connectivity complete the key features of this machine.

The station makes use of 2 containers, offering flexible management of either a second type of lubricant (e.g., for Hybrid or electric machines) or the conventional use of the dye. The standard station is supplied with an original hermetically sealed universal Ecotechnics lubricant (AEK285-N) and two refillable containers.

The bottle heater ensures extremely rapid charging in all weather conditions. The C.A.R. (Compressor Assisted Recharge) method adopted by Ecotechnics allows precise completion of the charging phase and a rapid pressure check. With the advanced and innovative solenoid valve system, ECK NEXT PRO's energy consumption is 20% less than that of previous models.

The futuristic design, conceived by an expert designer in the motorbike sector, has been applied to the machine's characteristics following in-depth research involving several workshops served by Ecotechnics over the years.

The outcome of the survey was taken into account when developing the product; hence, the exceptional manoeuvrability ensured by increasing the wheelbase, excellent ergonomics with perfect inclination of both pressure gauges and touch screen, besides very easy maintenance: 30 seconds suffice to open the control panel, while plastic covers can be removed to access all internal components in less than 2 minutes.



ECK NEXT

High performing versatile solution

ECK NEXT is the new model designed for different types of refrigerants. Future-oriented and premium quality components make ECK NEXT the most valuable A/C service station.

Fully automatic A/C service station for recovery, recycling and recharging of different types of refrigerant. The innovative and exclusive solution allows to set the R134a or the HFO1234yf gas directly during activation in the workshop.

ECK NEXT offers outstanding "value for money" as it is very easy to use with its 4,3" touch screen display. With its modular features, the machine can be configured to meet the most specific needs. The upgrade with the Gas Analyser detects the different components of the refrigerant, and the result provides information about their percentages. Further, this innovative solution offers the benefit of an external Analyser (no contamination of the A/C Station) without taking up any external space; Hybrid Kit and Wi-Fi Connectivity complete the optional key points of this machine.

The Ecotechnics C.A.R. method (Compressor Assisted Recharge) allows fast and accurate gas charging also in high temperature conditions. With the advanced technology based on an innovative solenoid valve system, ECK NEXT consumes 20% less energy than the previous models.

The futuristic design conceived by a designer expert in the motorcycle industry was applied to the machine's features by exploiting information provided by numberless workshops organised by Ecotechnics over the years.

The result is easy serviceability: less than 30" to open the revolving control panel and less than 2 min. to remove both plastic covers and access all the internal components. Further, ECK NEXT grants excellent manoeuvrability as a result of the considerable axial distance between the two wheels. User-friendly features: pressure gauges and touch screen are perfectly inclined for excellent ergonomics.

ECK TWIN PRO

A solution equalled by none

Best expression of the technological and functional competences of Ecotechnics in the "Black-Line" design. Two devices in one for a simple, fast, clean and safe climate service on R134a and HFO1234yf systems.



Fully automatic A/C service station for recovery, recycling and recharging with the refrigerants R134a and HFO1234yf. Two different circuits and separated components for each gas ensure the purity of the refrigerant. Machine operation is very intuitive and user-friendly via a 7" colour touchscreen display. The navigation menu is special for its user-friendly features, and guides even inexperienced users safely through the professional air conditioning service. All associated Ecotechnics features are standard, from the very clean and safe hybrid function, the pressure test with forming gas or nitrogen, automatic compensation of the service hose length and the hermetic containers (AEK250-N, AEK265-N, AEK270-N).

Flexibility and upgrade options with HFO1234yf gas identification are designed to protect the machine from contaminated refrigerants. The workshop-oriented design is user-friendly, space saving and enables easy handling in the workshop, thus making machine maintenance very easy. The high quality materials ensure resistance to kicks and impact.

ECK TWIN-PRO is the special solution proposed by Ecotechnics for both current and future workshops. The fully equipped A/C service station offers solutions for safe and professional service with the refrigerant HFO1234yf and R134a.

OEM Approvals:

PSA, Renault, Mitsubishi, Honda, Suzuki Italia, Jaguar-Land Rover, Toyota Deutschland

ECK 4000

Chosen by the most reliable manufacturers

The top-of-the-range product for refrigerant HFO1234yf. Most modern features are standard and offer excellent user friendly features. ECK 4000 is designed to meet VDA (German association of the automotive industry) and EGEA (European Garage Equipment Association) specifications.

“Full optional” and fully automatic A/C service station for recovery, recycling and recharging with the refrigerant HFO1234yf. The high refrigerant recovery rate ensures a crucial cutting-edge contribution to environmental protection.

The performance standard of VDA and EGEA specifications are ensured by a strict set of rules for performance and efficiency related to A/C service stations for refrigerant HFO1234yf. ECK 4000, compared to ECK 4000-HFO, includes some additional features, like the internal gas identifier supplied as standard.



ECK4000
Approvazioni OEM: Opel-Vauxhall

ECK 4000 HFO



Both units have a 7" colour touchscreen that guarantees easy, intuitive and extremely user-friendly menu navigation, patented hybrid function for electrically driven compressors, and pressure test with forming gas or nitrogen. There are also 2 hermetic and refillable containers for new oils and 1 for dye.

The internal hardware is strong and professional: tubes are made of copper to reduce refrigerant losses up to the technically possible minimum. A precious contribution in terms of cost saving and environmental protection.

The special solution proposed by Ecotechnics for workshops of today and tomorrow.

ECK4000 HFO
OEM Approvals: PSA, Toyota Deutschland



ECK 3900 PREMIUM

The success of a winning solution

Consistently with the highest performance and efficiency standards for Black Line design, the project of this A/C service station artfully combines various components to offer a very attractive and powerful machine for refrigerants R134a or HFO1234yf.



Fully automatic A/C service station for recovery, recycling and recharging with refrigerants HFO1234yf or R134a. The high refrigerant recovery rate ensures a crucial contribution to environmental protection. The patented and very compact aluminium manifold makes the A/C service station unique and fast, reducing internal piping and, thereby, increasing efficiency and reliability.

The 5" LCD display guarantees easy and intuitive menu navigation, with a graphical representation of the procedures and selection of possible options with a short description. The patented hybrid function for electrically driven compressors is a very efficient cleaning system for service couplings, service hoses and internal lines. Further features are standard, including three hermetic containers, pressure test with forming gas or nitrogen, and the status light.

The machine can be easily upgraded within 10 minutes with the gas identifier, thus protecting it from contaminated refrigerants in order to enhance both safety and environmental protection. It further helps to avoid unexpected costs resulting from repair services on the contaminated machine.

This special solution proposed by Ecotechnics for current and future workshops is studied to achieve speed and savings within the Black Line Design. The fully equipped A/C service station with the performance required for safe and professional service with refrigerants HFO1234yf or R134a.

OEM Approvals:
PSA, Renault, Mitsubishi, Honda, Volvo



ECK 1900 PREMIUM

Professional expertise, design, innovation

ECK 1900 PREMIUM is the new model designed for different types of refrigerants. Focused on the future with premium quality components, ECK 1900 PREMIUM is the most valuable A/C service station.



Fully automatic A/C service station for recovery, recycling and recharging of different types of refrigerants. The innovative and exclusive solution allows to set the R134a and the HFO1234yf gas directly during activation in the workshop.

ECK 1900 PREMIUM offers outstanding "value for money" as it is very easy to use with its 5" touch screen display. With its modular features, the machine can be configured to meet the most specific needs.

The upgrade with the Gas Analyser detects the different components of the refrigerant, and the result provides information about their percentages. Further, this innovative solution offers the benefit of an external Analyser (no contamination of the A/C Station) without taking up any external space; Hybrid Kit and Wi-Fi Connectivity complete the optional key points of this machine.

The unit is equipped with the original Ecotechnics hermetic universal oil (AEK285-N) and with a refillable container as well. The Ecotechnics C.A.R. method (Compressor Assisted Recharge) allows fast and accurate gas charging also in high temperature conditions. With the advanced technology based on an innovative solenoid valve system, ECK 1900 PREMIUM consumes 20% less energy than the previous models.

The workshop-oriented design is user-friendly, space-saving, enables agile moving in the workshop and makes maintenance work on the machine very easy. The high-quality materials make the machine resistant to kicks and strikes.

The special solution from Ecotechnics for the workshop of today and tomorrow looking for economics within the Black-Line Design. The fully automatic A/C service station with all the solutions to a safe and professional service with the refrigerant HFO1234yf or R134a.

VA_Cinquecento

Accessible practicality and quality in all situations

VA_Cinquecento is the new model designed for refrigerants R134a or HFO1234yf. The choice of known and tested components, and the solid metal structure make this A/C station the ideal "Entry Level" machine in terms of cost, reliability, compact design and completeness.

Fully automatic equipment for recovery, recycling and charging of refrigerant R134a or HFO1234yf with manually operated service taps.

VA_Cinquecento is the evolution of a remarkably successful historical model with edge of the line technology. Known and tested components and a solid metal structure characterise this economic, reliable and compact station. Very easy to use. The LCD alphanumeric display guides the user, even the least expert one, with a logical, user-friendly menu.

A separate keyboard is used for data entry and to select the options. The Database contains information of cars, commercial vehicles and agricultural machinery.

The condenser is ventilated to guarantee proper condensation (gas/liquid transformation) of the refrigerant in all weather and in case of intensive use. The electronic scale for both used and new oil management enhances precision and reliability.

The C.A.R. (Compressor Assisted Recharge) method applied by Ecotechnics ensures quick completion of the charging phase in extreme weather conditions (high temperatures), recovers residual gas from service tubes and allows rapid guided control of system pressure. The cylinder's temperature sensor and pressure gauge ensure precise purging of non-condensable gases.

The station has a refillable container for new oil. The use of a hermetically sealed container is an option. The 360° swivel castors and the balanced structure with small size and weight are designed for easy moving in the workshop. The solid and safe metal handle is also studied for excellent ergonomics.

The station can be easily enriched with a front panel to enhance the visual impact of high-quality design.



ECK BUS PRO

The answer to industrial needs

Ecotechnics' special product for refrigerant R134a. Performance parameters for ECK BUS PRO comply with the increased capacities required for services on big A/C systems, such as buses and trains.



Fully automatic A/C service station for recovery, recycling and recharging with refrigerant R134a on very large A/C systems, such as those installed in buses and trains. The high refrigerant recovery rate ensures a crucial contribution to present day environmental protection.

The special refrigerant high pressure gear pump, with a capacity of 1 kg/min flow rate in the liquid phase, provides a quick refrigerant charge, and along with the large 40 L refrigerant storage tank and 6 m service hoses, it makes working on very large A/C systems easy and fast.

The alphanumeric display guides the operator easily through the logical and professional menu navigation. The pressure test with forming gas or nitrogen is a standard feature that provides an ecological method for leak detection.

Another important feature is the discharge of "non-condensable" gases from the internal tank, which takes place automatically. The workshop-oriented design is user-friendly and space saving. It enables easy handling in the workshop, thus facilitating maintenance work on the machine. The high quality materials make this high end A/C service station resistant to kicks and impact.

ECK LAND

A station that stands apart

Ecotechnics' special product for the refrigerant R134a or HFO1234yf. ECK Land is designed for mobile use and can be easily transported.

Fully automatic A/C service station for recovery, recycling and recharging with refrigerant R134a or HFO1234yf for mobile outdoor or indoor use. The workshop-oriented design is user-friendly, space-saving and the case is made of metal. As an option is available the trolley which enables easy handling in the workshop. The high-quality materials used are chosen to make the machine resistant and strong.



The use of 6 m of service hose, which allows to reach the A/C system service ports that are often located on the top of the vehicle, is very important.

To protect the internal gas balance, all Ecotechnics A/C service stations are equipped with a lock system. In this mobile station, this is easily accessible from the front of the unit.

The A/C system pressure test can be worked out very quickly by the manual service valves and helps to measure up the A/C system.

The alphanumerical display guides even inexperienced operators safely through the whole A/C service. The data input is made on a separate keypad. The discharge of the "non-condensable" gases from the internal tank takes place manually. Thermal printer, heater, as well as strong and professionally designed components, create this special A/C service station.

OEM Approvals: JCB, CLAAS (France)



FEATURES	ECK FLAG	ECK NEXT PRO / ECK NEXT	ECK TWIN PRO	ECK 4000	ECK 4000 HFO
Type of refrigerant	HFO1234yf or R134a	HFO1234yf or R134a	R134a and HFO1234yf	HFO1234yf	HFO1234yf
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	100 l/min, vacuum level 0,1 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	2 x 1/3 HP	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
Scale resolution	10 gr	10 gr	10 gr	10 gr	10 gr
Oil scale resolution	5 gr	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	2 filters for humidity	1 filter for humidity	1 filter for humidity
Refrigerant tank	12 liters refillable	12 liters refillable	2x12 liters refillable	12 liters refillable	12 liters refillable
Hoses	3 meters	3 meters	2 pairs, 3 meters each	3 meters	3 meters
Automatic service valves	Standard	Not available	Standard	Standard	Standard
Display	7" colour touchscreen	5" /4,3" colour touchscreen	7" colour touchscreen	7" colour touchscreen	7" colour touchscreen
Connectivity WIFI	Standard	Option	Not available	not available	Not available
Hybrid function / electrically driven compressors	Standard	Option	Standard	Standard	Standard
Pressure test forming gas / nitrogen	Standard	Not available	Standard	Standard	Standard
Gas Identifier / Gas Analyser	Option, Analyser	Option, Analyser	Option, Identifier	Standard, Identifier	Option, Identifier
Flushing Kit	Option	Option	Option	Option	Option
Status light	Standard	Not available	Not available	Standard	Standard
Bottle heater	Standard	Standard / Not available	Standard	Standard	Standard
Thermal printer	Standard	Standard /Option	Standard	Standard	Standard
A/C diagnosis	Standard (R134a)	Standard (R134a)	Not available	not available	Not available
Hermetic and refillable containers for oil and dye	Standard 2 + 1	Not available	Standard 2 + 2	Standard 2 + 1	Standard 2 + 1
Hermetic disposable containers for oil and dye	Standard 2 + 1	Standard 1 + option 1 / Option 1	Standard 2 + 2	Option	Option
Refillable standard containers for oil and dye	Not available	Standard 2 / Standard 1	Not available	not available	Not available
Automatic air purge	Standard	Not available	Standard	Standard	Standard
Dimension / weight	cm 67 x 68 x 108, 77 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	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 91 x 72 x 126, 132 kg	cm 70 x 70 x 130, 100 kg	cm 70 x 70 x 130, 100 kg

FEATURES	ECK 3900 Premium	ECK 1900 Premium	ECK BUS PRO	ECK LAND	VA_Cinquecento
Type of refrigerant	HFO1234yf or R134a	HFO1234yf or R134a	R134a	R134a or HFO1234yf	R134a or HFO1234yf
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	170 l/min, vacuum level 0,1 mbar	72 l/min (R134a) / 51 l/min (HFO)	51 l/min, vacuum level 0,2 mbar
Sealed compressor	1/3 HP	1/3 HP	21 cc	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
Scale resolution	10 gr	10 gr	10 gr	10 gr	10 gr
Oil scale resolution	5 gr	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	2 filters for humidity	1 filter for humidity	1 filter for humidity
Refrigerant tank	12 liters (HFO), 22 liters (R134a)	12 liters refillable	40 liters refillable	7 liters refillable	12 liters refillable
Hoses	3 meters	3 meters	6 meters	6 meters	3 meters
Automatic service valves	Standard	Not available	Not available	Not available	Not available
Display	5" colour display	5" colour touchscreen	LCD alphanumeric mm 146 x 82,5	LCD alphanumeric mm 98 x 39	LCD alphanumeric mm 98 x 39
Connectivity WIFI	Not available	Option	Not available	Not available	Not available
Hybrid function / electrically driven compressors	Standard	Option	Not available	Not available	Not available
Pressure test forming gas / nitrogen	Standard	Not available	Standard	Not available	Not available
Gas Identifier / Gas Analyser	Option, Identifier	Option, Analyser	Not available	Not available	Not available
Flushing Kit	Option	Option	Not available	Not available	Not available
Status light	Standard	Not available	Not available	Not available	Not available
Bottle heater	Standard	Not available	Not available	Standard	Not available
Thermal printer	Standard	Option	Standard	Standard	Factory Option
A/C diagnosis	Standard (R134a)	Standard (R134a)	Not available	Not available	Not available
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	Not available	Not available	Not available
Refillable standard containers for oil and dye	Not available	Standard 1	Standard 1+ 1	Standard 1	Standard 1
Automatic air purge	Standard	Not available	Standard	Not available	Not available
Dimension / weight	cm 55 x 60 x 110, 90 kg	cm 55 x 60 x 110, 80 kg	cm 80 x 84 x 115, 127 kg	cm 51 x 42 x 44, 40 kg	cm 47 x 51 x 97, 54 kg
Dimension / weight with packaging	cm 70 x 70 x 130, 100 kg	cm 70 x 70 x 130, 90 kg	cm 91 x 91 x 126, 137 kg	cm 70 x 70 x 80, 50 kg	cm 69 x 70 x 122, 68 kg

Gas identifier / Gas analyser



Issued to ensure greater environmental protection, regulation CE 517/2014 defines the reduced use of refrigerants with high global warming potential (GWP). From 1 January 2017 the A/C systems of cars have to make use of refrigerants with GWP <150. HFO1234yf gas is the most widely used solution with GWP 350-fold lower than the previous R134a. Control and limitation of R134 gas production, importation and sale have been introduced to ensure that its market share will drop to below 21% by 2030. The graph presents the maximum percentage allowed for the market share of R134a and expectations concerning the price of the two refrigerants.



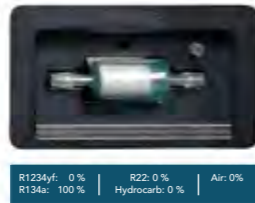
Due to the considerable difference in price and the difficulty obtaining supplies, systems might have a wrong refrigerant.

It is important to ascertain that the refrigerant is pure before servicing the machine in order to avoid the pointless cost of decontaminating the station, of repairing the A/C system, of disposing of contaminated gas, and of possible legal proceedings.

A gas analyser or identifier can be installed in most Ecotechnics stations to safeguard the environment and avoid unforeseen costs of repairing a contaminated station.

- The gas identifier checks the refrigerant's correct degree of purity with a "pass-fail" test.
- The gas analyser also detects the various component percentages of the refrigerant.

Gas analyser
KIT.GAS (HFO1234yf)



KIT.GAS.R134a
for gas analyser
KIT.GAS



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



Wi-Fi connectivity for Ecotechnics stations

The digital world offers numberless opportunities to integrate new solutions into the organisation of the so-called "connected workshop": an attractive and interesting experience for the user, consistent with future online services that help the technician build a profitable business.



The latest Ecotechnics air conditioning stations come with Wi-Fi connection that displays on Smartphones, tablets or PCs the A/C service status in real time, the station's data, such as lubricant and gas available, and the exportable archive of the services provided. A "work in progress" that will gradually implement additional functions, such as integration with the workshop's management system or automatic software updates.

KIT.WIFI
Aftermarket option for
NEXT/1900 Premium



XS600.00 saniflux
The A/C system and passenger compartment air purification system.



SCH8220
USB RS232 adapter (VA_Cinquecento)



IMB0011
Dust cover

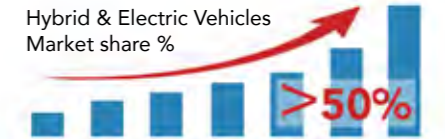


KIT.PLA0001
Front Cover (VA_Cinquecento)



Hybrid

The European Commission's "Observatory for electric mobility" confirms a growth rate of hybrid and electric cars in excess of 30% a year, and estimates that 50% of cars will be either hybrid or electric by the next 20 years. These vehicles have a compressor driven by a high frequency electric motor and containing a dedicated high performance insulating lubricant.



Expectations of the European Commission's "Observatory for electric mobility"

KIT.HYBRID Aftermarket option for R134a e HFO1234yf



The use of a non-insulating lubricant could damage the A/C system and be dangerous for the operator who handles the components. Hence the need to wash the service tubes and internal circuits of the station before charging to ensure that all traces of non-insulating lubricant have been removed.

The hybrid function patented by Ecotechnics is an exceptionally efficient cleaning system, and the special technology guarantees safe service.

Ecotechnics' innovative Hybrid solution is now also an aftermarket upgrade option. Besides stations with standard Hybrid function, Ecotechnics has developed an upgrade function for NEXT PRO/NEXT/1900 PREMIUM.

Rapid and easy to upgrade, with installation in a couple of minutes, the hardware is compatible both with R134a and with HFO, and is secured onto the station's external surface with two screws. This aftermarket option allows to add the Hybrid function to air conditioning stations equipped with adequate software. A solution that looks to the future of modern workshops.

XK185.000001
EASYREC PRO (HFO & R134a)

With Easyrec, every responsible workshop may easily manage recycling procedures, thus providing a precious contribution for environmental protection.

The product is supplied with a 1.5 m (blue) service tube for the system, 3 connections for HFO1234yf, R134a and 1/4" SAE, and a 1.5 m (yellow) tube to connect Easyrec Pro to the cylinder.



AEK102-N7-R5
Bypass adapters set for Flushing Kit



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

FLUSHING KIT
AEK102-N14-5 (R134a)
AEK102-N14-6 (HFO1234yf)



AEK207-A (R134a)
Manual oil injector kit for R134a
AEK207-B (HFO1234yf)
Manual oil injector kit for RHFO1234yf

This device is ideal for the manual injection of specific types of oil and/or dye. Easy to use solution also in case of A/C units without dye management.



In case of compressor or other component failure, it is mandatory to remove any metal shavings that may have accumulated inside the system before a new installation. The manufacturers of many compressors do not grant a warranty that covers their new components unless the A/C system is mechanically flushed prior to installation.

Advantages: No solvents, only refrigerant for flushing, environment-friendly, use of a bottle in vacuum, high flushing speed for efficient cleaning, fully automatic cycles, fast procedure, time saving.

AEK317
Double valve extractor screwdriver



AEK302
Electronic scale 100kg capacity



CNT4012
40 L bottle for R134a
R22
R404a
R507
R407C



AEK120-E
Digital Thermometer



































KIT.STM
Thermal Printer Upgrade option



Connectors and hoses

The daily air conditioning service, the replacement of wearing parts, the maintenance and eventual repairs, require connectors, hoses and adapters. Here is the most useful selection of the necessary products.




 <p>AEK109A Terminal valve high pressure 1/4" SAE</p>	 <p>AEK109B Terminal valve, low pressure 1/4" SAE</p>	 <p>AEK116-1 Adapter for refrigerant bottles for R134a</p>
 <p>AEK1234A Quick coupler HP HFO</p>	 <p>AEK1234B Quick coupler LP HFO</p>	 <p>AEK208A Quick coupler HP R134a</p>
 <p>AEK208B Quick coupler LP R134a</p>	 <p>AEK211 Special quick-connect coupling R134a (Ford, BMW)</p>	 <p>AEK277 Special quick-connect coupling HFO1234yf (Ford)</p>
 <p>AEK228A Quick coupler HP R134a</p>	 <p>AEK228B Quick coupler LP R134a</p>	 <p>AEK229A Quick coupler HP HFO</p>
 <p>AEK229B Quick coupler LP HFO</p>	 <p>AEK230A Quick coupler HP R134a 1/4" SAE</p>	 <p>AEK230B Quick coupler LP R134a 1/4" SAE</p>

 <p>AEK213 Nitrogen coupler for A/C machines</p>	 <p>AEK218A HP "puff free" coupler for HFO</p>	 <p>AEK218B LP "puff free" coupler for HFO</p>
 <p>AEK224A HP "puff free" coupler for R134</p>	 <p>AEK224B LP "puff free" coupler for R134a</p>	 <p>AEK318 Fitting for Dupont bottle AEK319 Fitting for Honeywell bottle</p>
 <p>AEK320 Fitting LP for bottle R134a</p>	 <p>TUB2122 Blu hose 3 mt HFO</p>	 <p>TUB2132 Red hose 3 mt HFO</p>
 <p>TUB2126 Blu hose 6 mt HFO</p>	 <p>TUB2136 Red hose 6 mt HFO</p>	 <p>TUB1144 Red hose 6 MT. 1/4" SAE</p>
 <p>TUB1145 Blu hose 6 MT. 1/4" SAE</p>	 <p>TUB2146 Red hose 3 mt. R134a</p>	 <p>TUB2147 Blu hose 3 mt. R134a</p>
 <p>TUB1148 Red hose 6 mt. R134a</p>	 <p>TUB1149 Blu hose 6 mt. R134a</p>	 <p>ECOTECHNICS SIMPLY EFFICIENT</p>

 <p>AEK203-C Sealed bottle of tracer (55ml) SALES UNIT = 5</p>	 <p>AEK250-N Sealed oil cartridge PAG46 250ml for R134a mechanical compressor SALES UNIT = 6</p>	 <p>AEK255-N Sealed oil cartridges PAG100 - 250ml for R134a mechanical compressor SALES UNIT = 6</p>
 <p>AEK265-N Sealed oil cartridge PAG100 - 250ml for R134a, HFO1234yf mechanical compressor SALES UNIT = 6</p>	 <p>AEK285-N UNIVERSAL Sealed oil cartridge POE68 - 250ml for R134a HFO1234yf mechanical and electric compressor SALES UNIT = 6</p>	 <p>AEK270-N UNIVERSAL Sealed dye cartridge 125ml for R134a, HFO1234yf mechanical and electric SALES UNIT = 6</p>
 <p>AEK286-N UNIVERSAL Sealed oil + dye cartridges 250ml for R134a HFO1234yf mechanical and electric compressor SALES UNIT = 6</p>	 <p>AEK275 UNIVERSAL Oil bottle PAG100 - 250ml for R134a HFO1234yf mechanical and electric compressor SALES UNIT = 6</p>	 <p>AEK276 UNIVERSAL Oil bottle PAG46 - 250ml for R134a HFO1234yf mechanical and electric compressor SALES UNIT = 6</p>
 <p>AEK280 Oil bottle PAG46 - 250ml for R134a and mechanical compressor SALES UNIT = 6</p>	 <p>AEK281 Oil bottle PAG100 - 250ml for R134a and mechanical compressor SALES UNIT = 6</p>	 <p>AEK283 Oil bottle POE100 - 250ml for R134a and electric compressor SALES UNIT = 6</p>
 <p>AEK290 UNIVERSAL Dye bottle 250ml for R134a HFO1234yf mechanical and electric compressor SALES UNIT = 6</p>	 <p>AEK296 UNIVERSAL Oil + dye bottle 250ml for R134a HFO1234yf mechanical and electric compressor SALES UNIT = 6</p>	 <p>AEK322 SANIFLUX LIQUID Bottle (1000 ml)</p>
 <p>GRCNT 16 Refillable and hermetic container (260 ml)</p>	 <p>GRCNT 17 Refillable and hermetic container (260 ml)</p>	 <p>GRCNT 18 Refillable and hermetic container (260 ml)</p>
 <p>GRCNT 19 Refillable and hermetic container (260 ml)</p>	 <p>RAC8088 Adapter for previous dye cartridges</p>	 <p>RAC9000 Adapter for previous oil cartridges</p>

 <p>AEK304N Universal nitrogen leak detection kit with nitrogen hydrogen bottle (950ml) with quick couplers R134a and HFO</p>	 <p>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)</p>	 <p>AEK178 Electronic Leak Detector, one instrument for identifying R134a, HFO1234yf and Hydrogen</p>
 <p>AEK305 Nitrogen + H2 bottle (950ml)</p>	 <p>AEK145 UV cobra led lamp, fluorescent enhanced goggles</p>	

Maintenance

 <p>KIT016 Maintenance Kit includes 1 bottle 500ml of vacuum pump oil + 1 filter FLT5005</p>	 <p>KIT3335 Vacuum pump oil 500 ML. ISO46</p>	 <p>FLT8006 Filter for Flushing Kit 30µ (R134a)</p> <p>FLT8008 Filter for Flushing Kit 20µ (HFO)</p>
 <p>KIT017 Maintenance Kit includes 1 bottle 500ml of vacuum pump oil + 1 filter FLT5512</p>	 <p>TUB1260 (HFO) TUB1262 (R134a) Gas sample hose (HFO) for gas analyser & identifier</p>	 <p>KIT018 Maintenance Kit Includes bottle 500ml of vacuum pump oil + 1 filters FLT5005 and 1 filter FLT5006</p>
 <p>FLT5507 Filter for gas analyser & identifier</p>		

Part number

ECK FLAG	Y1F200000000	ECK TWIN PRO	K5T5A170004B
FLAG KIT HFO 1234yf	Y1FH00000000	ECK 4000	K592A25VD40H
FLAG KIT R 134a	Y1FR00000000	ECK 4000HFO	K592A25HF02H
FLAG KIT HFO 1234yf UK	Y1FH00000001	ECK 3900 PREMIUM HFO	K5Z3A250093H
FLAG KIT R 134a UK	Y1FR00000001	ECK 3900 PREMIUM	K5Z3A250094R
ECK NEXT PRO	Y2NP20000000	ECK BUS PRO	XK456A000051
ECK NEXT	Y1N000000000	ECK LAND	K5V2A000000A
ECK 1900 PREMIUM	Y1P000000000	ECK LAND HFO	K5V2A000000H
KIT HFO 1234yf	Y1NH00000000	VA Cinquecento	Y1V00000000A
KIT R 134a	Y1NR00000000	VA Cinquecento + Printer	Y1V20000000A
KIT HFO 1234yf UK	Y1NH00000001	VA Cinquecento HFO	Y1V00000000H
KIT R 134a UK	Y1NR00000001	VA Cinquecento HFO + Printer	Y1V20000000H



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