

KONFORT 700 Series



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TEXA

KONFORT A/C RECHARGE STATIONS for R1234yf, R134a and R744 (CO₂)

The KONFORT 700 range includes 11 models with different specifications and operating modes, for servicing vehicle air conditioning systems containing R1234yf, R134a or R744 (CO₂).

The range is produced on an assembly line that is the only one of its kind in the world to ensure the ultimate in quality and lasting reliability.

The KONFORT range features a total of 10 registered international patents. The components used all have exceptional characteristics and guarantee refrigerant recovery efficiency in excess of 95%. The neat design combines easy handling, sturdiness and safety to make all maintenance operations simple and easy.



Check with your TEXA Distributor the model and type of refrigerant recommended from each individual car marker listed.

THE KONFORT RANGE IS APPROVED BY:

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KONFORT 744

(R744 - CO₂)

The KONFORT 744 implements a range of innovative solutions and differs from the other models in the KONFORT Series for the fact as it is designed and made specifically for use with the latest A/C systems that use **R744 (CO₂) refrigerant**. Despite its advanced design however, the KONFORT 744 is just as easy to operate as its more conventional counterparts dedicated to R134a and R1234yf refrigerants. The service station is fully automatic and capable of completing the entire service procedure without input from the operator. It also achieves the highest possible levels of precision. In fact, the quality of its the components and the **accuracy of its design permit recharging** to be completed to a maximum tolerance of only 10 grams (2 grams for oil). Special attention has also been paid to the **system for releasing CO₂ into the atmosphere**. Release takes place in a controlled manner to ensure the safety of the operator and of the system itself. The KONFORT 744 also incorporates an accurate system for **measuring the concentration of CO₂** in the surrounding air. If this approaches a dangerous level, the unit warns the operator and suspends charging.







KONFORT 780R (R134a and R1234yf)

The KONFORT 780R is the **top of the range model** and unrivalled by any other service station on the market. Though it is no larger than the other stations in the series, the 780R incorporates **two separate tanks and two separate circuits for recovery, recycling and recharging**. It can therefore function with both refrigerants (R134a and R1234yf) simultaneously. The entire recharge procedure is completely automatic thanks to the hermetically sealed oil tanks, a scale locking and release system and automatic refrigerant weighing. The service station even incorporates a **special system for flushing all its internal circuits during recharging**. With this recharge station you can service vehicles with either type of refrigerant. The station automatically flushes out all circuits before changing from one refrigerant to another, a procedure that takes approximately one minute.



KONFORT 770S

(R1234yf)

The KONFORT 770S implements exclusive technological solutions to conform to the **strict specifications of German vehicle manufacturers** governing the safety and reliability of systems containing R1234yf refrigerant. The space inside the unit is designed to allow maintenance operations such as oil and filter changes. The refrigerant tank is mounted on robust electronic scales with a locking system that prevents changes in calibration during transport. The KONFORT 770S is equipped with an automatic leak detection system combined with **EN837 Class 1 certified pressure gauges**.

If the recharge station is opened for inspection, a micro-switch automatically disconnects power to all electrical components. The control panel also features **an emergency stop button** to shut down the machine and interrupt all ongoing processes. The station's components boast exceptional performance and guarantee over 95% efficiency in refrigerant recovery.



Made in conformity to
the strict specifications
of German vehicle
manufacturers





KONFORT 760R

KONFORT 760R BUS

(R134a or R1234yf)

This model features a high-visibility TFT colour display and an advanced graphic interface that presents images and information in an easy to understand way. Recharging operations are **completely automatic** and require no manual valve control. The distinctive features of this model include **hermetically sealed tanks**, fully automatic recharging, a scales locking/unlocking system and automatic **refrigerant weighing**.

The **760R BUS** is specially designed for use with larger A/C systems. It is equipped with a **30 Kg tank**, a 21cc refrigerant recovery compressor and a 146 l/min dual stage vacuum pump capable of generating 0.030 mbar of vacuum. Both can be purchased pre-configured for R134a or R1234yf refrigerant. A retrofit kit is also available to convert between the two refrigerant types.





KONFORT 720R (R134a or R1234yf)

The KONFORT 720R is designed to service all car, commercial, HGV and tractor air conditioning systems. Despite its highly competitive purchase price, the 720R delivers all the advanced technology and stylish design of the KONFORT range. The KONFORT 720R is equipped with **automatic** refrigerant recovery and recycling and oil drainage **functions**. Quantities of oil and UV dye are controlled by an automatic valve system. The operator therefore only has a few simple tasks to carry out.

The 720R can be purchased pre-configured for **R134a** or **R1234yf** refrigerant. A **retrofit kit** is also available to convert between the two refrigerant types.



KONFORT 712R

(R134a or R1234yf)

KONFORT 712R is TEXA's new mid-range A/C charging station which boasts the typical technical features of the top-range models such as the **automatic maintenance service management** and the **measuring of the amount of oil recovered with the electronic scale**. The KONFORT 712R can be purchased in the **R134a** or **R1234yf** version with the option to change the configuration.

Other distinctive features of the KONFORT 712R compared to the other models in its category, is the **possibility to install the Refrigerant Identifier Kit** and to use it in combination with REC+, the innovative device patented by TEXA for the recovery of contaminated refrigerants from the vehicle A/C systems.

KONFORT 712R is the ideal solution because with a **limited investment** the mechanic can have a station with exclusive features and top class performance, ensuring customers a **high level of service** over time.



KONFORT 710R (R134a)

TEXA's KONFORT 710R is specially designed to satisfy the needs of garages who want an **entry level system** for R134a only which is still the most common refrigerant in vehicle A/C systems. Though it is TEXA's entry level model, the KONFORT 710R **provides as standard all the essential functions** that have established the KONFORT 700 Series as the best service stations on the market. Features include, automatic leak detection, electronic refrigerant weighing, automatic timed oil and UV dye injection and high efficiency refrigerant recovery (over 95%).



KONFORT 707R

(R1234yf)

The KONFORT 707R is designed to service vehicle A/C systems containing R1234yf refrigerant with maximum safety and efficiency.

This basic and easy to use recharge service station boasts extremely advanced design features. It is fully automatic in functioning and guarantees efficiency and safety.

This innovative service station stands out from the competition for its exceptional characteristics. It incorporates a **filter dryer** that lets you perform **up to 300 recharges**, a scale locking system to avoid loss of calibration between operations and an intuitive alphanumeric keyboard that is far easier to use than the classic cursor type interface.

Other important features are its convenient height and its 4 castors, designed to let you perform all tasks with ease. The KONFORT 707R also **records the services it performs** and can provide details of all past maintenance operations.

It comes with provision for installing a refrigerant identifier kit.







KONFORT 705R KONFORT 705R OFF ROAD (R134a)

The KONFORT 705R is TEXA's entry-level charging station for all recovery and recharging operations involving R134a refrigerant.

The KONFORT 705R retains the same basic characteristics as the other models in the KONFORT range and therefore represents an ideal solution for garages committed to offering customers **impeccable service** while keeping their business costs under control. The KONFORT 705R is also available in an OFF ROAD version for technicians who have to work in tough conditions. It is equipped with two **larger rear wheels** and the tyres are filled with a special anti-puncture foam. Instead of front wheels, the station has a robust metal bar for **greater stability during use**. Another feature designed specifically for off road applications is a scales locking system that prevents the loss of calibration during movement over particularly rough ground.



Exclusive TEXA solutions

Today's technicians are faced with a vast selection of A/C recharge service stations. In this highly competitive market, TEXA service stations have always stood out for advanced technical features, many patented, that guarantee the highest level of precision.

REFRIGERANT IDENTIFIER KIT

TEXA is the only European company that has designed and manufactured a refrigerant identification system for use with its air conditioning recharge stations. This system was developed using only the most compact, accurate and reliable technology and three new international patents were registered in the process (in addition to the eight already covering TEXA recharge service stations). Special care was taken to ensure that refrigerant test results cannot be influenced by the surrounding environment e.g. by the airborne hydrocarbon vapours and exhaust gases so often present in a workshop environment. Development took over a year, with special care taken over the algorithms that identify the type of refrigerant: R134a or R1234yf. As a result, this TEXA system not only correctly identifies these two refrigerants, but checks their purity too. The entire operation takes approximately one minute. If the refrigerant is found to be unsuitable or contaminated, the station warns the operator and prevents recharging.



FAN PROTECTION SYSTEM

The new R1234yf refrigerant has been classified as being 'highly flammable' and this must be acknowledged by the operator. The KONFORT 700 series adopts a high efficiency redundant fan system to eliminate any possible refrigerant build up within the unit.

REFILLABLE HERMETICALLY SEALED OIL BOTTLES

Standard oil bottles are not hermetically sealed, they always contain a percentage of air. The water molecules in the air bind with the oil and contaminate it. TEXA's solution was to create special containers which prevent the oil from becoming contaminated by air and humidity, which have been patented. These special bottles can be re-used thanks to a special system which removes the air from the bottle.



FORMING GAS

TEXA's Forming Gas Kit for leak detection allows quickly solving any problem in A/C systems that use refrigerants R134a, R1234yf or R744 (CO₂). Using Forming Gas is a smart and real solution, since its chemical composition (95% nitrogen and 5% hydrogen) allows detecting even the smallest leaks with extreme precision thanks to its molecular size, much smaller than any refrigerant gas.



AUTOMATIC CO₂ LEAK DETECTION

The service station automatically checks for leaks in the vehicle's air conditioning circuit before it starts the recharge cycle.

AUTOMATIC LEAK DETECTION MANAGEMENT

The 780R and 760R charging stations for R1234yf automatically carry out a double check for possible gas leaks from the tanks. All safety related operations take place automatically in order to eliminate errors.

ANALOGUE PRESSURE GAUGES

The KONFORT A/C recharge service stations are equipped with clear, easy to read pressure gauges for monitoring pressures even when the power is switched off.

AUTOMATIC BOTTLE IDENTIFICATION

With the introduction of new vehicles, particularly electric and hybrid vehicles, new oils have been introduced for these applications. The correct oil type specified for the air conditioning system on the vehicle must be used (eg PAG or POE). The use of incorrect oils could lead to system damage and safety problems, so the operator must take care to avoid mistakes. TEXA has developed an automatic oil bottle recognition system which, by comparing the data contained in the vehicles database, signals if the incorrect bottle is in use.

SD CARD

SD cards can be used to record all the service operations performed by the service station. Workshops can consult archives of KONFORT station services either in chronological order or by searching for vehicle registration number or customer name.

THERMAL PRINTER

The service station incorporates a thermal printer that can be used to print out detailed reports on all the operations performed, at any time.

VEHICLE FLUSHING KIT

Flushing is the mechanical operation carried out to clean the air conditioning system components of a vehicle. This includes:

- A supplementary 6 lt capacity tank with a contamination indicator
- A stainless steel filter which is easily removable for cleaning
- 5 mm diameter flushing hose
- Universal adapter case (more than 60 pieces).

HYDRAULIC SYSTEM FLUSHING

In order to guarantee safety and efficiency, it is important that each type of oil and refrigerant are not cross contaminated. TEXA have therefore developed a special automatic flushing function to clean the internal circuits of the service station.





A/C system efficiency testing kit

The latest KONFORT models feature an optional A/C SYSTEM EFFICIENCY TESTING KIT designed to dynamically test the temperature of the air coming out from the A/C system's vents. At the end of the test, the recharge station produces a detailed report certifying the effective performance of the vehicle's A/C system.



KONFORTAPP

The KONFORT range models 720R, 760R, 760R BUS, 770S and 780R BI-GAS can interface with Android and iOS mobile devices thanks to a dedicated APP.

This APP allows technicians to **follow** the vehicle A/C system **service procedures** in progress also remotely, directly from the **smartphone**. Furthermore, the new APP allows you to manage the performed maintenance services easily, even when the station is turned off.

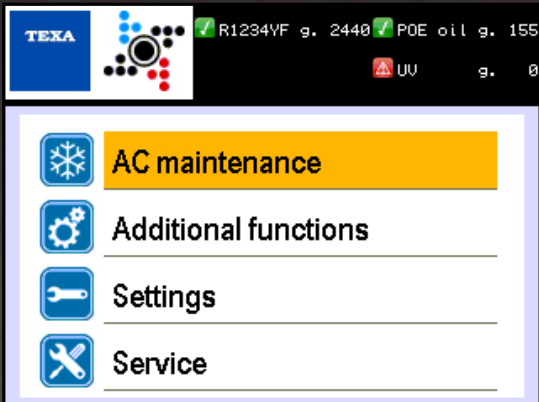


Operating software

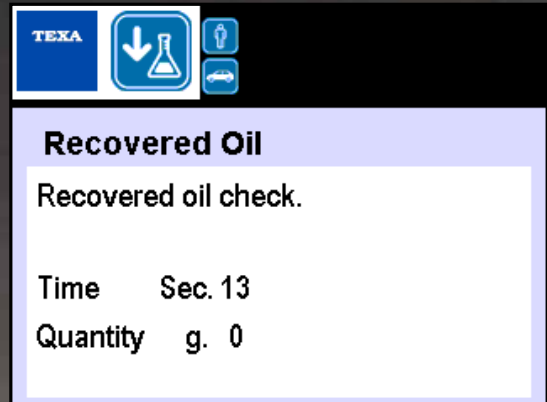
TEXA's operating software conforms to the strictest requirements of accuracy and precision. Even the 705R, 705R OFF ROAD, 707R, 710R and 720R are equipped with a simple but complete high-vis LCD interface. All other models are equipped with a colour TFT display which controls the progress of automated operations using images, graphics and technical diagrams. Any possible faults or messages are displayed via detailed error messages. TEXA's software manages the recovery and recharge process, in order to guarantee precision that was previously unknown. The automatic procedures assist the operator with repairs on highly sophisticated systems, such as those fitted on the new hybrid vehicles.

All models have a removable SD card which allows communication with a Windows PC to update the vehicle make and model database, check and certify all services and potential software updates.





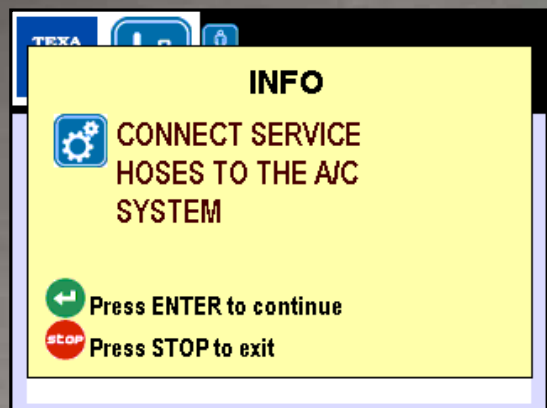
The main menu is designed to be simple and easy to navigate and provides a point of access to all services and functions.



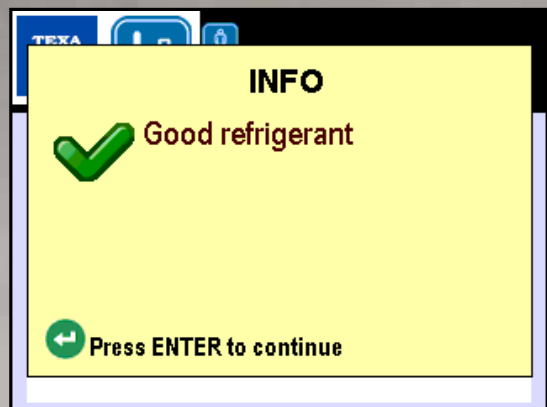
Electronic scales weigh the quantity of oil recovered during services to a high level of accuracy.



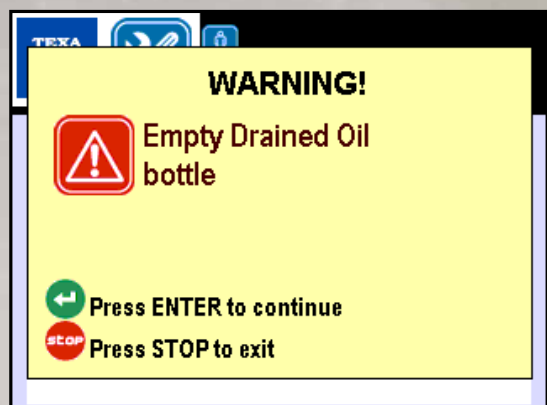
During refrigerant recovery, the display shows the volume of refrigerant recovered and the pressure in the system.



Clear and comprehensive messages guide you through the initial steps of the recharging process.



TEXA's operating software informs you of the compatibility and purity of the refrigerant used.



The service station identifies all possible errors and warns you immediately using clear messages.



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Production and quality certified. Iso ts 16949 system quality

The KONFORT range benefits from new developments in materials, technologies and automated production procedures that resulted in TEXA gaining a **ISO TS 16949** certification.

All phases are subject to strict quality control, from component selection and development to machining, assembly, distribution and after-sales service.

After assembly, the KONFORT recharge stations enter TEXA's testing department where the electrical system is tested and the load cells and pressure transducers are calibrated. Functional testing is then performed to verify that all components and devices respond correctly and perform according to specifications.

Rigorous testing eliminates the risk of defects in the hydraulic system and ensures that all parts are effectively sealed.

The final stage of testing takes place in a special sealed chamber and involves the injection of helium into the tank and the recharge circuit. Helium is used because its particularly small molecules are able to find even minute leaks.

The KONFORT charging stations conform to European CE/PED safety standards, to the American standards governing refrigerant purity (SAE J2099 for both R134a and R1234yf) and to those governing efficiency in the recovery of at least 95% of used refrigerant (SAE J2788 for R134a and SAE J2843 for R1234yf). Even TEXA's production line conforms to manufacturers' specifications, as certified by TÜV.

Technical specifications

	705R	705R OFF ROAD	707R	710R	712R	720R	760R	760R BUS	770S	780R	744
R134a compatible	●	●		●	●	●	●	●		●	
R1234yf compatible			●		●	●	●	●	●	●	
C02 compatible											●
Dual refrigerant										●	
CAR and TRUCK compatible	●	●	●	●	●	●	●	●	●	●	
BUS compatible								●			
Rotating pressure gauge and display assembly						●	●	●	●	●	
CL1 pressure gauges									●		
Fully automatic maintenance management			●		●		●	●	●	●	●
Automatic leak detection	●	●	●	●	●	●	●	●	●	●	●
Electronic scales for refrigerant weight measurement	●	●	●	●	●	●	●	●	●	●	●
ATB (Air Tight Bottle) oil anti-contamination system (registered patent)							●	●	●	●	●
Automatic oil management with electronic scales							●	●	●	●	●
Timed oil injection	●	●	●	●	●	●					●
Timed UV tracer injection				●	●	●					
Electronic scales for weighing recovered refrigerant					●		●	●	●	●	●
Hybrid vehicle compatible	●	●	●	●	●	●	●	●	●	●	●
Automatic service management (database)	●	●	●	●	●	●	●	●	●	●	●
Personal service management (database)	●	●	●	●	●	●	●	●	●	●	●
FPS (Fan Protection System)						●	●	●	●	●	
Flushing system for refrigerant changes										●	
Flushing system for oil changes	●	●	●	●	●	●	●	●	●	●	●
Refrigerant identifier kit			●				●	●	●	●	
KONFORT service reports on SD	●	●	●	●	●	●	●	●	●	●	●
Print-out of completed services	●	●	●	●	●	●	●	●	●	●	●
High visibility TFT colour display							●	●	●	●	●
High visibility graphic display	●	●	●	●	●	●					
DATABASE and service management by SD card	●	●	●	●	●	●	●	●		●	
KONFORT APP						●	●	●	●	●	

	705R	705R OFF ROAD	707R	710R	712R	720R	760R	760R BUS	770S	780R	744
2 x 12 kg tanks										●	
10 kg tank	●	●	●	●	●						
12 kg tank						●					
20 kg tank							●		●		
30 kg tank								●			
Charging accuracy +/- 10 g											●
Charging accuracy +/- 15 g	●	●	●	●	●	●	●	●	●	●	
High efficiency refrigerant recovery (over 95%)			●	●	●	●	●	●	●	●	
Double stage vacuum pump				●	●	●	●	●	●	●	●
100 l/min single stage vacuum pump	●	●	●								
Automatic oil tank recognition (registered patent)							●	●	●	●	●
Scales locking system		●	●				●	●	●	●	●
Functioning modes: DATABASE	●	●	●	●	●	●	●	●		●	
Functioning modes: PERSONALISED SERVICE	●	●	●	●	●	●	●	●	●	●	●
Functioning modes: MY DATABASE	●	●	●	●	●	●	●	●	●	●	●
Multi-language software	●	●	●	●	●	●	●	●	●	●	●
Automatic compensation for length of recharging lines	●	●	●	●	●	●	●	●	●	●	●
Automatic maintenance alarm	●	●	●	●	●	●	●	●	●	●	●
Simplified maintenance				●	●	●	●	●	●	●	●
Automatic management of uncondensable product			●		●	●	●	●	●	●	
Thermal printer	●	●	●	●	●	●	●	●	●	●	●
Flushing kit				●	●	●	●	●	●	●	
A/C system efficiency testing kit							●	●	●	●	
Automatic, high precision oil injection							●	●	●	●	●
Air conditioning system autodiagnosis							●	●	●	●	
2 manual line control valves	●	●		●		●					
Leakage detection kit with forming gas	●	●	●	●	●	●	●	●	●	●	
Leakage detection kit with forming gas (based on Mercedes specifications)											●
Automatic metering of refrigerant release											●
Automatic monitoring of CO ₂ concentration in atmosphere											●

Not available



Optional



Standard



TEXA

TEXA was founded in 1992 in Italy and is today among the world leaders in the design and production of multi-brand diagnostic and tele-diagnostic tools, exhaust gas analysers and air conditioning service stations. TEXA is worldwide with an extensive distribution network; through its subsidiaries, it sells in Brazil, France, Germany, Japan, Great Britain, Poland, Russia, Spain and the United States. Currently there are approximately 650 TEXA employees in the world, among which 150 engineers and specialists dedicated to Research and Development. Over the years, TEXA has received many awards and international recognitions, among which the Automechanika Frankfurt Innovation Award (2010 and 2014), the National Innovation Award as the most innovative

company in Italy, received by the then President of the Republic Giorgio Napolitano (2011), the Irish Automotive Innovation Award (2014), and the Golden Wrench award in Moscow (2015 and 2017). In 2015, the Mit Technology Review awarded TEXA among the ten most "disruptive" companies in Italy. In 2016, TEXA received the Frost & Sullivan award for "European Commercial Vehicle Diagnostics Customer Value Leadership". All TEXA tools are designed, engineered and built in Italy on modern, automated production lines that guarantee the utmost precision. TEXA pays particular attention to the quality of its products, and obtained the strict certification ISO TS 16949 specially written for original equipment suppliers to the automotive industry.



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