



**Range of KONFORT
stations**
approved by Mercedes-Benz
for A/C systems
with R134a, R1234yf and CO₂

TEXA



Dear Manager,

as you certainly know, starting from the second half of 2016, Mercedes-Benz will introduce two new refrigerant gases for the A/C systems on its vehicles: R1234yf, intended for the medium/low range vehicles, and CO₂ for the higher versions.

We are a leading manufacturer of charging stations in Europe, approved by most of the vehicle manufacturers worldwide and **the only company that has three charging stations recommended by Mercedes-Benz**. In particular, **the KONFORT 744 model, intended for CO₂, was developed in direct collaboration with Mercedes-Benz itself, while the KONFORT 780 model is the only bi-gas station approved by Mercedes-Benz able to work with both R134a and R1234yf**.

The KONFORT 760R, which can be purchased in either the R134a or R1234yf configuration, completes TEXA's offer for Mercedes-Benz.

Therefore, by confiding in TEXA, you can equip your workshop with charging stations that are able to face any operational need on any Mercedes-Benz model of the past, present and future.

In particular, if you decide to choose us as your only supplier brand, you would gain a series of advantages:

- Only one charging procedure and operating software, regardless of the refrigerant you are working with.
- Homogeneity of the design, which is extremely important in prestigious working places as the one you coordinate.
- Only one after-sales centre for the activation, on-site training, maintenance and technical assistance.

Furthermore, for all the orders and the pre-orders you will place up to July, you may receive a particular discount, which will be even higher if you choose to purchase two stations for different refrigerant types (KONFORT 744 with KONFORT 780R, or KONFORT 744 with KONFORT 760R for R1234yf).

In the following pages you will find an accurate description of the range of TEXA charging stations recommended by Mercedes-Benz, among which we hope you will find the solution that best suits your work needs.

KONFORT 744 (CO₂)

Developed in collaboration with Mercedes-Benz, it is expressly dedicated to CO₂; it is a completely automatic service station, easy to use and absolutely precise: the quality of the components and of the design allows a maximum tolerance of 10 grams while charging (2 grams tolerance for the oil). Particular attention is given to the release of CO₂ into the atmosphere, which is controlled in order to preserve the safety of both the operator and the system.

Furthermore, KONFORT 744 has an accurate gauge for measuring the concentration of CO₂ in the air which interrupts the charging if the concentration reaches dangerous levels.



MAIN FEATURES

- R744 (CO₂) compatible
- High visibility colour TFT display
- CL1 pressure gauge assembly
- 2-stage vacuum pump
- 2.5 m service pipes
- Charging precision +/- 10 gr
- Anti-contamination hermetic oil bottles (filed patent)
- High precision automatic oil injection
- Automatic oil bottle recognition (patented system)
- Automatic measurement of discharged refrigerant
- Automatic control of CO₂ concentration in the atmosphere
- Scale lock system

- Thermal printer
- Automatic maintenance service management
- Multi-language software coverage
- Automatic compensation of the length of the service pipes
- Automatic maintenance alarm
- Operating modes:
 - CUSTOMISED SERVICE
 - MY DATABASE

OPTIONAL

- Leak control kit with Forming Gas



CO₂



MAIN FEATURES

- Dual refrigerant R134a and R1234yf in-line management
- High visibility colour TFT display
- Advanced graphic interface
- Refrigerant identifier kit
- Management of DATABASE and services carried out via SD card
- Rotating pressure gauge-display unit
- 2 12 kg tanks
- Charging precision +/- 15 gr
- High efficiency refrigerant recovery (over 95%)
- 2-stage vacuum pump
- Anti-contamination hermetic oil bottles
- High precision automatic oil injection
- Automatic oil bottle recognition
- Automatic control of refrigerant measurement precision
- Scale lock system
- Automatic maintenance service management
- Operating modes:
 - DATABASE
 - CUSTOMISED SERVICE
 - MY DATABASE
- Multi-language software coverage
- Automatic compensation of the length of the service pipes
- Automatic maintenance alarm
- Simplified maintenance
- Automatic non-condensable exhaust management
- Thermal printer

OPTIONAL

Flushing kit, VDC kit, A/C efficiency kit, A/C system self-diagnosis.



R1234yf & R134a

KONFORT 780R (R134a and R1234yf)

Although it is the same size as the other stations of the KONFORT range, it has a double tank and double and distinct recovery, recycling and recharging circuits in order to alternate the services carried out on vehicles equipped with R134a and R1234yf; in fact, within approximately one minute the station cleans all the ducts so it is possible to pass from one gas to another without any problems. The entire recharging service is completely automated, with a hermetic bottle system for the oil, a scale lock/unlock device and an automatic control system that verifies the correct weight of the refrigerant. It is equipped, as a standard, with a system that identifies the gas being used.

KONFORT 760R (R134a or R1234yf)

It is the start-of-the-art station for operations with the R1234yf refrigerant. The management of the entire maintenance service is completely automated, without the use of any manual tap. It has an hermetic bottle system for the oil, a scale lock/unlock device and an automatic control system that verifies the correct weight of the refrigerant. It can be purchased in the version for the R134a or for the R1234yf. The version for the R1234yf is equipped with a refrigerant identifier as a standard, while it is optional for the R134a version.



R1234yf

MAIN FEATURES

- R134a or R1234yf compatible
- High visibility colour TFT display
- Advanced graphic interface
- Refrigerant identifier kit for the R1234yf model (optional for the R134a model)
- Management of DATABASE and services carried out via SD card
- Rotating pressure gauge-display unit
- 20 kg tank
- Charging precision +/- 15 gr
- High efficiency refrigerant recovery (over 95%)
- 2-stage vacuum pump
- Anti-contamination hermetic oil bottles
- High precision automatic oil injection
- Automatic oil bottle recognition
- Automatic control of refrigerant measurement precision

- Scale lock system
- Automatic maintenance service management
- Operating modes:
 - DATABASE
 - CUSTOMISED SERVICE
 - MY DATABASE
- Multi-language software coverage
- Automatic compensation of the length of the service pipes
- Automatic maintenance alarm
- Simplified maintenance
- Automatic non-condensable exhaust management
- Thermal printer

OPTIONAL

Flushing kit, VDC kit, A/C efficiency kit, A/C system self-diagnosis.



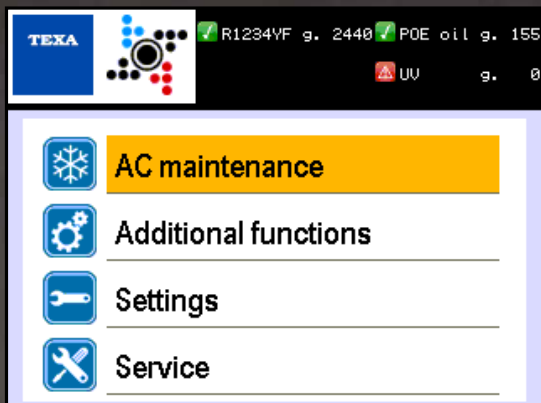
or R134a

OPERATING SOFTWARE

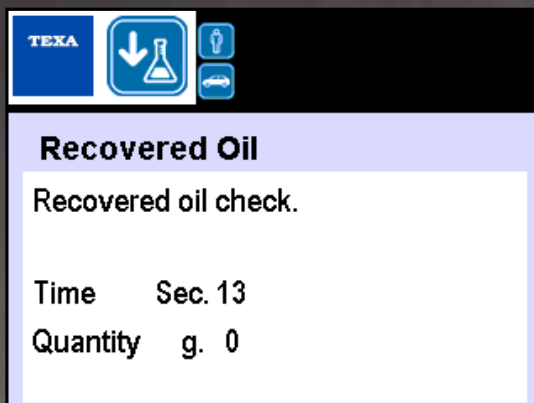
As mentioned previously, all the KONFORT stations, regardless of the refrigerant they are operating with, allow a uniform procedure, thanks to an extremely efficient operating system. TEXA's software, thanks to a thick network of sensors, manages the check and recharging process automatically in order to guarantee a precision that was unknown until now. All the operations can be followed on the TFT matrix colour display, through images and diagrams; any possible fault is signalled through detailed error messages.

Thanks to the removable memory device (SD card), available on all the models, it is possible to communicate with a commercial Windows PC in order to update the database with makes and models, check and certify all the maintenance services carried out and eventually upgrade the software.





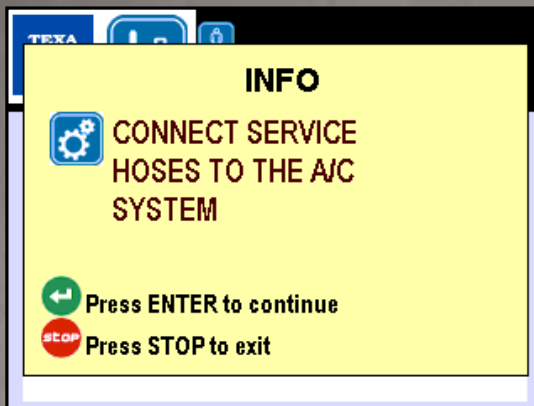
The main menu, designed to offer a simple and intuitive use, represents the access point to all the services and functions.



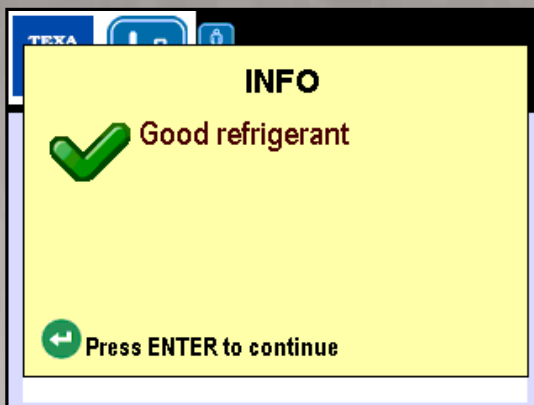
The electronic scale allows you to measure the amount of oil that was recovered during the maintenance service with extreme accuracy.



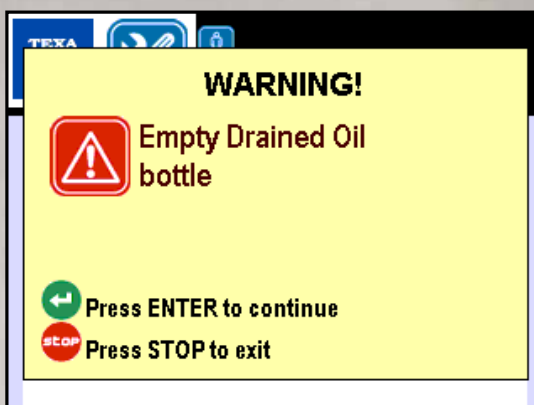
During the refrigerant recovery operation, the display shows the amount of refrigerant that was recovered and the pressure in the system.



A complete message service guides the operator during the service start operations.



TEXA's software warns the operator about the actual conformity and purity of the refrigerant being used.



Each possible error is identified by the station and the operator is warned immediately with a specific message.



WHAT A CHARGING STATION MUST HAVE TODAY

As you know, the scenario of today's charging station is very broad. In this field TEXA has always stood out for technical peculiarities, many of which are protected by patents, to guarantee accuracy and precision at the highest levels. Let's see what a modern charging station should have according to our philosophy:

REFRIGERANT IDENTIFIER KIT

(only for 780R and 760R for the R1234yf; optional for 760R for the R134a)

TEXA is the only European company and the second worldwide to design and create a refrigerant identification system dedicated to A/C charging stations. For its creation, TEXA used a compact, precise, reliable technology, filing several international patents. Particular attention was given to the non-influenceability of the examination by the surrounding environment, for example the hydrocarbon vapours or the exhaust gases that can be found in workshop. The planning lasted over one year, with particular attention for the algorithms that allow the identification of the type of refrigerant, R134a or R1234yf; TEXA's tool not only is able to recognise these two refrigerants, but it guarantees the degree of purity. The entire operation lasts approximately one minute and if the refrigerant is not suitable or is contaminated, the charging station warns the operator and blocks itself.



FAN PROTECTION SYSTEM *(only 780R and 760R)*

The new refrigerant R1234yf is classified as flammable and therefore needs particular precautions in order to avoid fires. The charging stations of the KONFORT 700 range have a high efficiency redundant fan system to eliminate the possibility of gas stagnating inside the machine.

HERMETIC AND RECHARGEABLE OIL BOTTLES

Standard bottles, not being hermetic, always contain a consistent amount of air, and the water molecules contained in it bind to the oil contaminating it. TEXA's solution consists in special containers with a filed patent which prevent air and humidity from contaminating the oil. These special TEXA bottles can be reused continuously as a special device eliminates the excess air at each top up.



ANALOGUE PRESSURE GAUGES

The KONFORT series is equipped with very clear and easy reading pressure gauges, in order to be able to monitor the pressures even when the charging station is turned off.

AUTOMATIC CO2 LEAK CONTROL MANAGEMENT *(only 744)*

The station automatically checks for leaks inside the vehicle's system before starting the charging. To locate possible leaks, you may also launch a leakage search function that uses the Forming Gas, a gaseous mixture made up at 95% by nitrogen and 5% by hydrogen. With the help of an external sniffer, it is possible to locate the area of the leak easily.

AUTOMATIC LEAK CONTROL MANAGEMENT *(only 780R and 760R for R1234yf)*

The 780R and 760R charging stations for the R1234yf automatically carry out a double check for possible gas leaks from the tanks at all times. All the safety operations are completely automatic, avoiding the possibility of errors or oversights by the operator.

AUTOMATIC BOTTLE RECOGNITION

The arrival of new types of vehicles, especially hybrid ones, brought to the introduction of different oils based on the type of A/C system that must be serviced (for example PAG or POE). Since it is harmful and dangerous to inject a non-compatible oil into the system, the operator must avoid any error. TEXA developed an automatic recognition system for the type of oil which, by cross-checking the information in the vehicle database, will signal if a wrong bottle is inserted.



SD CARD

It offers the possibility to record all the services carried out by the charging station. At any time the workshop can consult the archive in the KONFORT, either based on the date or on the license plate number of customer's name.

THERMAL PRINTER

The charging station has a built-in thermal printer that allows you to print, at any time, a precise report of all the operations carried out.

FLUSHING KIT *(optional for 780R and 760R)*

The flushing is the mechanical operation that cleans all the pipes in the vehicle's A/C system. TEXA offers a kit made up of:

- an additional 6 litre tank with a contamination indicator;
- a stainless steel filter that can be removed easily in order to be cleaned;
- a high flow rate pipe with an internal diameter of 5 millimetres;
- a case containing the complete series of universal adapters (over 60 pieces).



CERTIFIED PRODUCTION AND QUALITY

The new KONFORT range reflects the great attention TEXA puts into the design, the research on the materials, the use of new technologies and automated production processes, which allowed the company to achieve the ISO TS 16949 certification. Maximum quality was pursued throughout all the phases: from the development to the selection of the components, from the manufacturing and assembly systems to the distribution and after-sales support. After it is assembled, the KONFORT station the pre-testing section where the electrical



AFTER-SALES SERVICES

When purchasing a KONFORT station you are certain to not only use a highly technological product, but also to be able to always count on TEXA, a dependable and reliable business. In fact, TEXA has a first-rate After-Sales service throughout the national territory. Our Service Partners are qualified technicians, continuously updated, that use forefront equipment and assistance methods.

TEXA's After-Sales Services dedicated to the KONFORT A/C stations include:

checks are taken care of along with the calibration of the scale's sensors and of the pressure transducers. Instead, the operational testing verifies if all the components and all the devices respond to the various inputs correctly and operate in compliance with the specifications. Furthermore, this operation excludes the presence of faults inside the hydraulic system and verifies the tightness of the components.

The final test takes place in a special sealed room in which helium is injected into the tank and into the entire circuit in the charging station; the helium was chosen because its very small molecules allow the identification of microscopic leaks also.

The KONFORT stations respect the European EC/PED safety requirements and meets the American standards regarding the purity of the refrigerant (SAE J2099 for the R134a and for the R1234yf) and the recovery efficiency of at least 95% of the R134a refrigerant (SAE J2788) and the R1234yf refrigerant (SAE J2843). Even the production line was certified by the TÜV based on the specifications of the manufacturers.



**STATION
INSTALLATION
AND ACTIVATION**



**INITIAL
ON-SITE
TRAINING**



MAINTENANCE



**PREMIUM
PARTNER
SERVICE**
Selected by TEXA
throughout
the national territory



WARRANTY
24 months after the setup

**SERVICE
PARTNER**

TEXA

TEXA is an Italian company founded in 1992. Today it is among the world leaders in the design and production of multi-brand remote diagnosis and diagnostic tools, exhaust gas analysers, AC system maintenance stations. TEXA is worldwide with an extensive distribution network; in Spain, France, the UK, Germany, Brazil, USA, Poland, Russian and Japan it sells through its subsidiaries.

Currently there are approximately 500 TEXA employees in the world, among which over 100 are engineers and specialists dedicated to Research and Development. TEXA has received many national and international awards throughout the years.

Only to mention the most recent, in 2011 the founder and CEO Bruno Vianello received, by the President of the Republic Giorgio Napolitano, the "Prize of all Prizes" as the most innovative Italian company.

In 2014 TEXA repeated the success achieved in Frankfurt in 2010 by winning the prestigious Automechanika Innovation Award again, in two categories; it also won the Autotrade Expo Innovation Award in Dublin.

In 2015 the MIT Technology Review awarded TEXA as one of the 10 Italian disruptive companies.

All TEXA's tools are designed, engineered and built in Italy on modern automated production lines, which guarantee maximum precision. TEXA pays particular attention to the quality of its products and gained the strict ISO TS 16949 certification which is specific for the suppliers of original automotive equipment.

WARNING

The trademarks and logos of vehicle manufacturers in this document have been used exclusively for information purposes and are used to clarify the compatibility of TEXA products with the models of vehicles identified by the trademarks and logos. Because TEXA products and software are subject to continuous developments and updates, upon reading this document they may not be able to carry out the DIAGNOSTICS of all the models and electronic systems of each vehicle manufacturer mentioned within this document. References to the makes, models and electronic systems within this document must therefore be considered purely indicative and TEXA recommends to always check the list of the "Systems that can be diagnosed" of the product and/or software at TEXA authorized retailers before any purchase. **The images and the vehicle outlines within this document have been included for the sole purpose of making it easier to identify the vehicle category (car, truck, motorbike, etc.) for which the TEXA product and/or software is intended.** The data, descriptions and illustrations may change compared to those described in this document. TEXA S.p.A. reserves the right to make changes to its products without prior notice.



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QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =**

**COMPANY WITH
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MANAGEMENT SYSTEM
CERTIFIED BY DNV GL
= ISO/IEC 27001 =**

**COMPANY WITH
QUALITY SYSTEM
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