

# KONFORT

**700 SERIES**



# KONFORT 700

## Designed for efficient service

From 1<sup>st</sup> January 2011 all newly type approved vehicles must adopt a new refrigerant (R1234yf) as part of their air conditioning systems under European legislation. This new refrigerant with a lower environmental impact, will progressively replace the current R134a, which may still be used by manufacturers until the end of 2016 on vehicles already type approved.

Workshops will need to work with both refrigerants for a period of time. Workshops therefore have two options:

- Acquire two separate service stations
- they can purchase a single service station that can operate simultaneously with both refrigerants.

The new R1234yf refrigerant is classified as 'highly flammable' therefore the new service stations for vehicle AC systems must adhere to specific restrictions in order to guarantee the operator's safety during vehicle system maintenance.

The KONFORT 700 series has a range of five service stations which may be used to service and maintain air conditioning systems in cars, light and heavy commercial vehicles and coach/bus applications.

The KONFORT series has been designed and developed by TEXA, whose engineers searched for new solutions to provide maximum functionality. The KONFORT is an innovative range of service stations which has eight International patents. The components used have exceptional features, which guarantee 95% efficiency for refrigerant recovery.

The design enables ease of use, and the units are robust to ensure repairs are simple and easy to carry out. The control panel has two clearly visible gauges, and a interactive monitor that ensures optimal visibility in any lighting conditions. It also offers an optical signal group which indicates the various operational phases via different colour LEDs.

To the monitor's side is a SD card reader which contains the vehicle database and allows service records to be stored.

The KONFORT series is produced via a highly advanced automated production system, which provides constant quality checks during the assembly phases in order to guarantee maximum quality and efficiency.

**THE KONFORT SERIES MAY BE PURCHASED FOR USE WITH EITHER THE NEW R1234YF REFRIGERANT OR THE TRADITIONAL R134a REFRIGERANT (EXCEPT THE KONFORT 770S). AN OPTIONAL RETROFIT KIT IS AVAILABLE TO CHANGE THE REFRIGERANT TYPE.**

**THE KONFORT 780 BI-GAS OPERATES WITH BOTH REFRIGERANTS SIMULTANEOUSLY.**

**TEXA has developed the new**

# **KONFORT 700**

**To operate under the new regulations in a thorough, professional and trust worthy manner.**



# 780R

## BI-GAS

### KONFORT 780R

#### TOP OF THE KONFORT RANGE

This model is top of the 700 series range, and offers everything that is required for the market. The 780R version is the same size as the other units, but offers two tanks and two separate circuits for recovery, recycling and refilling, in order to operate with both refrigerants simultaneously (the original R134a and the new R1234yf). The entire service procedure is completely automated with a hermetically sealed oil/UV bottle system. A scale locking system and automatic refrigerant leakage check. It also has a special procedure for cleaning the internal circuits during the refrigerant change procedure. The operator is able to select the correct refrigerant dependant on the vehicle's requirement. The machine carries out the flushing procedure automatically in order to clean out the system when changing from one refrigerant to the other. This procedure takes approx. one minute.

The 780 will provide a solution for workshops' who are required to deal with new vehicles fitted with the new R1234yf refrigerant, but also maintain vehicles which will continue using the traditional R134a refrigerant.



#### MAIN FEATURES

- Dual refrigerant management R134a & R1234yf
- High visibility colour TFT display
- Graphic interface
- DATABASE/SERVICE management via SD card
- Rotating gauge display (excluding Germany)
- 2x 12Kg tank
- Load precision +/- 15gr
- High efficiency refrigerant recovery (over 95%)
- Dual stage vacuum pump
- Hermetically sealed oil bottles
- High precision automatic oil injection
- Automatic bottle recognition
- Automatic refrigerant precision check
- Scale lock system
- Automatic service management
- Functionality:
  - DATABASE
  - PERSONALISED SERVICE
  - MY DATABASE
- Multilingual software coverage
- Service hose length compensation
- Automatic service messages
- Simplified unit service
- Automatic non condensable management
- Thermal printer

#### OPTIONAL

Flushing kit, VDC Kit, Climate control efficiency, refrigerant identifier, Bluetooth module, WASY II module.



**770S**  
R-1234 YF



## KONFORT 770S

### APPROVED AND RECOMMENDED BY GERMAN VEHICLE MANUFACTURERS

The KONFORT 770S implements exclusive technological solutions to adhere to the specific German vehicle manufacturer requirements, with regards to safety and reliability under the European legislation for the new refrigerant.

The internal unit has been designed to ensure the service procedures for the unit are simpler with regards to oil changes or filters. The refrigerant tank is mounted on robust electronic scales with a locking system that prevents changes in calibration during transport or when moving around the workshop.

The KONFORT 770S is equipped with an automatic leak control system, linked to EN837 Class 1 certified gauges with an impeccable precision. The refrigerant scales guarantee that errors will not exceed +/- 15gr.

As far as safety is concerned, as soon as the service station is opened for inspection; a micro-switch system automatically locks electrical components. An emergency stop button has been added to the control panel which turns the machine off stopping all processes in progress. The entire upper console can be turned in order to be viewed, without having to move the whole service station (not-available in the German market).

The components used such as the innovative recovery group have exceptional features and they guarantee refrigerant recovery of over 95%.



#### MAIN FEATURES

- R1234yf compatible
- High visibility colour TFT display
- Rotating CL1-display gauge group
- 20 Kg tank
- Dual stage vacuum pump
- High efficiency refrigerant recovery (over 95%)
- Load precision +/- 15 gr
- Hermetically sealed oil bottles (patented)
- Automatic high precision oil injection
- Automatic bottle recognition (patented)
- Automatic precise oil measurement check (patented)
- Scale lock system
- Thermal printer
- Automatic non condensable management
- Functionality:
  - PERSONALISED SERVICE
  - MY DATABASE
- Multi-lingual software coverage
- Service hose length compensation
- Automatic maintenance alarm
- Simplified service
- Automatic non condensable management

#### OPTIONAL

Flushing Kit, VDC Kit, Climate efficiency kit, Bluetooth module, WASY II module, USB Module.



**Adheres to specific German  
manufacturer requirements**



## SAFETY AND PRECISION FOR THE OPERATOR

### REFRIGERANT IDENTIFIER KIT

The TEXA refrigerant identifier is based on NDIR technology (Non-Dispersive Infrared). It has been developed with the experience gained by producing analysis chambers for over 10 years, and TEXA are recognised as being the market leaders for manufacturing quality. TEXA is the only European company and the second worldwide to develop and manufacture a refrigerant identifier kit dedicated to air conditioning service stations.

TEXA has utilised the most accurate and compact technology, in order to develop the identifier and certain features have International patents (in addition to the 8 for the service stations)

During the development process, particular attention has been paid to algorithms which allow the refrigerant identification, R134a or R1234yf. The TEXA identifier determines the refrigerant type and also measures the purity. Once the analysis has taken place, the identifier will not release the analysed refrigerant.

The entire procedure takes around a minute, and the unit will alert the operator if the refrigerant is incorrect or contaminated, and will therefore lock the KONFORT service station preventing the recovery of contaminated refrigerant. This sophisticated and robust system, which has been granted approval from German vehicle manufacturers, is included as standard with the KONFORT 770S and is optional for the 760R and 780R. It ultimately protects the technician from recovering incorrect or contaminated refrigerant.





Analogue Gauges



Thermal Printer



**760R**  
2 GAS READY



**760R**  
BUS

## KONFORT 760R E KONFORT 760R BUS 2 GAS READY FOR SMALL AND LARGE SYSTEMS

This model is equipped with a high visibility colour TFT display with a graphic interface for ease of use. The service management procedure is fully automatic, so there is no requirement for manual taps. The distinctive features compared to the 720R are the hermetically sealed bottle system, automatic service management system, refrigerant measurement and scale locking system. The 760R BUS specifically developed for larger systems. Is equipped with a 30 Kg internal storage tank, a larger 21cc compressor for refrigerant and a 146l/min dual stage vacuum pump, able to generate depression of 0.030 mbar. It can be purchased for either the original refrigerant R134a or for the new R1234yf. These units can be changed from the original configuration via an optional retrofit kit.



\* Please check at your TEXA dealer which specific gas and model has been recommended by the above mentioned manufacturing companies.

### MAIN FEATURES

- R134a or R1234yf compatible
- High visibility colour TFT display with interface Graphics
- DATABASE/SERVICE management via SD card
- Rotating gauge display (Excluding Germany)
- 20 Kg internal tank for 760R
- 30 Kg internal tank for 760R BUS
- +/- 15 gr load precision
- High efficiency refrigerant recovery (above 95%)
- Dual stage vacuum pump
- Hermetically sealed bottles
- Automatic high precision oil injection
- Automatic oil bottle recognition
- Automatic precise refrigerant measurement check
- Scale lock system
- Automatic service procedure management
- Functionality:
  - DATABASE
  - PERSONALISED SERVICE
  - MY DATABASE
- Multilingual software coverage
- Service hose length compensation
- Simplified service
- Automatic precise oil measurement check (patented)
- Scale lock system
- Thermal printer
- Automatic non condensable management

### OPTIONAL

Flushing Kit, VDC Kit, Climate efficiency kit, Bluetooth module, WASY II module.

# 720R

2 GAS READY

## KONFORT 720R

### BASE MODEL WITHIN THE KONFORT RANGE

The KONFORT 720R is the entry level service station within the 700 series. It can operate on all car, commercial vehicle, tractors and industrial vehicle systems, and still offers high end technology as per all the KONFORT range.

It is equipped with automatic refrigerant recovery and recycling functions as well as oil drainage. The quantity of oil and UV dye are checked by an automatic valve system just leaving the operator to carry out a few simple manual operations.

It may be purchased for either the original refrigerant R134a or for the new R1234yf. These units can be changed from the original configuration via an optional retrofit kit.



#### MAIN FEATURES

- R134a and R1234yf compatible
- High visibility 4x20 blue LCD
- DATABASE/SERVICE management via SD card
- Rotating gauge display group (excluding Germany)
- 12 Kg tank
- Dual stage vacuum pump
- +/- 15gr load precision
- High efficiency refrigerant recovery (above 95%)
- Automatic oil injection
- Service hose double valve manual control
- Functionality
  - DATABASE
  - PERSONALISED SERVICE
  - MY DATABASE
- Multi-lingual software coverage
- Automatic precise oil measurement check (patented)
- Automatic service alert
- Simplified service
- Automatic non condensable management

#### OPTIONAL

Flushing Kit, VDC Kit, Climate efficiency kit, WASY II module.



Cylinder access



SD card slot



Dual refrigerant couplings (only for 780R)



Status light indicators

## SPECIFIC SERIES SOLUTIONS

### REFILLABLE HERMETICALLY SEALED OIL BOTTLES\*

Because standard 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. These have been patented. These special bottles can be re-used thanks to a special system which removes the air from the bottle.



### 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.



### 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 must be used relating to the air conditioning system to be serviced (eg PAG or POE). It is potentially damaging and dangerous to inject non-compatible oils into the system, 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.

### TILT SENSOR SYSTEM FOR ACCURATE READINGS\*

The scales used for refrigerant measurement can be inaccurate when used on uneven surfaces. TEXA's patented **TILT SENSOR SYSTEM** analyses the scales horizontal positioning and alerts the operator to the fact that the readings may be inaccurate.

### 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.



### AUTOMATIC LEAK DETECTION MANAGEMENT

The KONFORT 700 series units automatically carry out a dual leak detection check. All safety related operations take place automatically in order to eliminate errors.

\* Not available for 720R

# OPTIONAL

## FLUSHING KIT

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

- A supplementary 6lt capacity tank with a contamination indicator
- A stainless steel filter which is easily removable for cleaning
- 5mm diameter hoses flushing hose
- Universal adapter case



## VDC KIT

TEXA has developed a VDC interface (Variable Displacement Compressor) which allows air conditioning system with variable cylinder compressor to be tested. The VDC allows the technician to intervene and modify the compressor control signal through the Konfort service station, to test the functionality of the system.

## CLIMATE CONTROL EFFICIENCY KIT

The new KONFORT service station models offer an optional climate control efficiency kit module which allows ambient and vent temperatures to be measured. Once the test has been carried out, the KONFORT unit provides a detailed performance report.

## REFRIGERANT IDENTIFIER KIT (included with 770S)

A solution which automatically identifies the refrigerant on behalf of the operator when using R134a and R1234yf refrigerants (available as an option for 760R, 760R BUS & 780R). This kit ensures that incorrect or contaminated refrigerant is not recovered into the KONFORT service station.



## BLUETOOTH MODULE (not available for 720R)

The service station is able to connect to the workshop's network via the Bluetooth card/module. It can therefore communicate with a PC.



## WASY MODULE II

This module allows the KONFORT software to be updated via the GPRS telephone connection with a personalised TEXA server link.



## USB MODULE

It is possible to connect the KONFORT 770S to an external refrigerant analysis device via a USB connection and lead. The service station is able to carry out the refrigerant test even with other brands of analysers and avoid damage through refrigerant contamination.

**GAS**



**GAS**



Refrigerant identifier



VDC housing

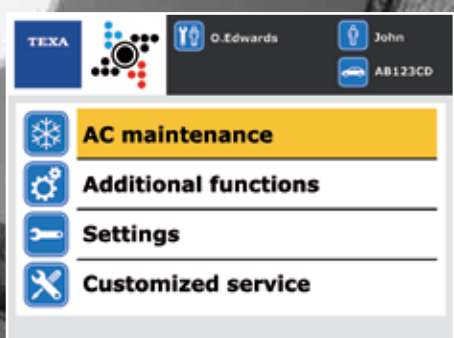


## OPERATING SOFTWARE

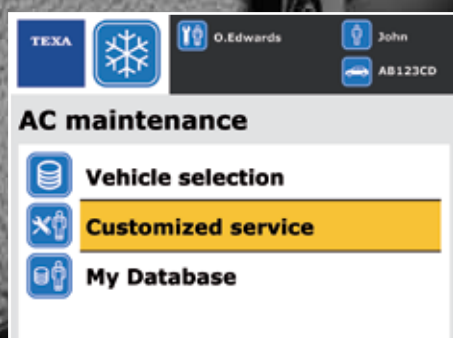
TEXA operating software has been developed under strict SAE requirements in terms of accuracy and precision. The base version of the KONFORT range, the 720R, has a high visibility LCD interface which is simple but complete. The other models are equipped with a colour TFT display which controls the progress of automated operations using images, graphics and technical diagrams. Any possible faults or messages are displayed via detailed error messages. TEXA software manages the recovery and recharge processes, in order to guarantee precision that was previously unknown. In particular, 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 vehicle make and model database, check and certify all services and potential software updates.



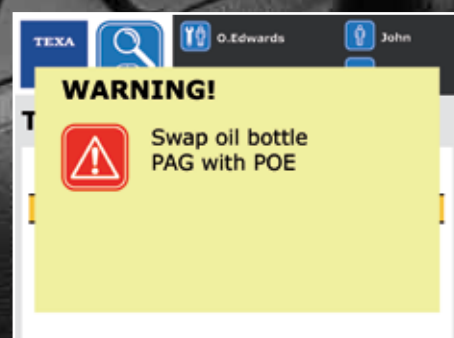




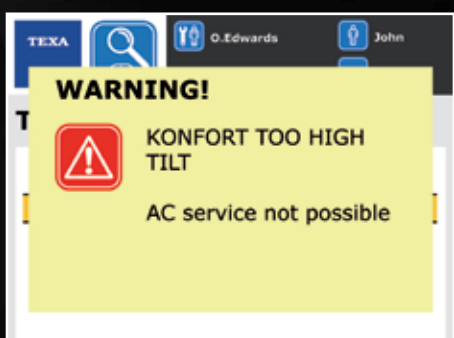
The main menu is the point of access to all services and functions that the KONFORT service station offers. It is designed to be simple and easy to navigate.



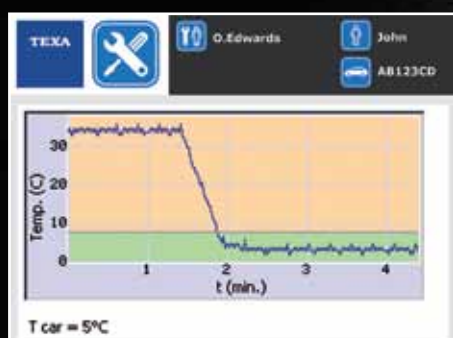
A dedicated software section allows the recovery, oil injection and recharge phases to be customised.



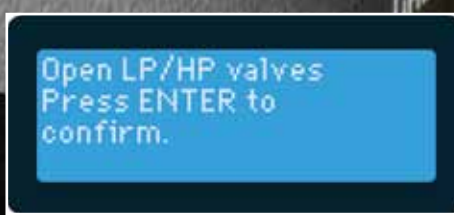
New climate control systems require new and specific oil types. The KONFORT service stations are able to manage all oil types, alerting the user should a different bottle need to be introduced.



The KONFORT is able to monitor the inclination of the service station, and will warn the operator if it is incorrect.



Thanks to a specific kit and dedicated software, the correct function of the climate control system can be accessed both before and after maintenance is carried out.



Even the 720R software is highly functional and easy to use. The operational function differences are down to limitations on the 80 character LCD graphics.

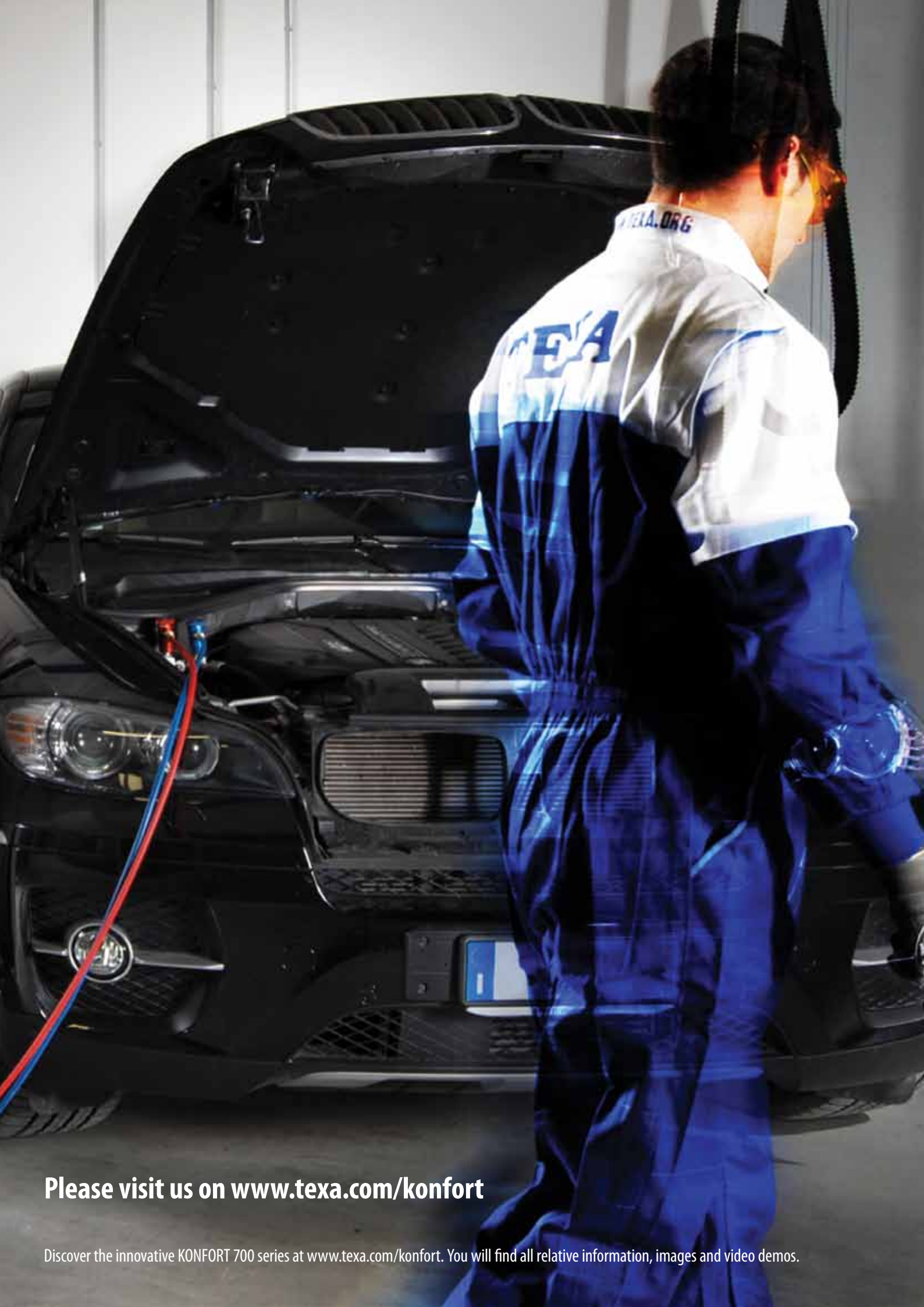
## PRODUCTION AND QUALITY CERTIFIED ISO TS 16949 SYSTEM QUALITY

The new KONFORT range is the result of TEXA's attention and research on materials, new technology and automated production procedures which have resulted in the company having been certified via ISO TS 16949. Constant quality control and attention to detail is used during all the production phases, from the selection of components, assembly procedure to aftersales support.

The KONFORT units are fully checked and inspected once they come off the assembly line, with specific checks of the electronics, calibration of pressure transducers, scales and sensors. This procedure ensures that all the unit's functions operate accurately.

The final test is carried out in a sealed area, where helium is injected into the Konfort tank and the unit's hydraulic system. Helium was selected for this test as its particularly small molecules allow microscopic leaks to be detected. The new KONFORT units adhere to European CE/PED safety requirements as well as standard American refrigerant purity requirements (SAE J2099 for R134a and R1234yf) and minimum 95% refrigerant recovery efficiency R134a (SAE J2788), R1234yf (SAE J2843). Even the production line has been certified by TÜV according VDA specification.





**Please visit us on [www.texa.com/konfort](http://www.texa.com/konfort)**

Discover the innovative KONFORT 700 series at [www.texa.com/konfort](http://www.texa.com/konfort). You will find all relative information, images and video demos.

# COMPARISON SHEET

	720R	760R	760R BUS	770S	780R
R134a compatible					
R1234yf compatible					
Dual refrigerant management					
CAR & TRUCK compatible					
BUS compatible					
Rotating display (not available on the German market)					
Full automatic service management					
Automatic leak detection					
Transit lock system					
Electronic refrigerant scales					
Tilt Sensor System					
Oil contamination protection system					
Automatic Oil and UV management					
Manual Oil and UV injection					
Electronic recovered Oil management					
Hybrid/Electric vehicle compatibility					
Automatic service and maintainance system					
Personalised service management system					
Fan Protection System					
Internal refrigerant flushing system					
Internal Oil flushing system					
Climate efficiency check kit					
VDC compressor check kit					
Bluetooth kit					
WASY II kit					
AC system flushing kit					
Refrigerant identifier kit					
KONFORT REPORT on SD card					
Multiple user management					
Service report print out					

Standard

Optional

Not available

To check out the extensive coverage of TEXA products visit [www.texa.com/applicationlist](http://www.texa.com/applicationlist)

To view demos showing TEXA instruments in operation visit [www.texa.com/demo](http://www.texa.com/demo)

For information on IDC4 compatibility and minimum system requirements go to [www.texa.com/system](http://www.texa.com/system)



**ALL TEXA PRODUCTS ARE GUARANTEED FOR 24 MONTHS**

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