



# A/C SERVICE STATIONS



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## WELCOME TO ELCI

ELCI is providing complete a/c system solutions with the wide product range of a/c service stations, refrigerant identifiers, leak detection kits, hoses, vacuum pumps, diagnostic tools, radiator flush machines, refrigerants and oils.

ELCI recharge stations are designed to be used in workshops, maintenance and service stations for diagnosis, maintenance and recharging of air conditioning systems in passenger cars, light commercial vehicles, trucks, buses, motor-homes, agricultural and construction machines, trains and ships.

Perfect solution for daily workshop routine. State of the art, fully automatic, user friendly systems for a profitable and safe business.

**Quality at the Highest Level!**

## ABOUT US

ELCI Elektronik Klima Sanayi Ticaret Limited Sirketi was founded in 2003 and has become the leader in the production of Air Conditioning Service Station in a short time.

Since its foundation, Elci had contributed to continuous development with production according to Turkish Standards and European norms. We are awarded with ISO 9001:2008 that has the validity all around the world and CE certificate that satisfies all quality and safety requirements necessary for European Union (EU) countries.

Our customer oriented management system and continuous research and development activities enable us to offer the best price to meet the expectations of the customers at highest level, without compromising the quality. From design to after sales in every stage of production, we are contributed to Total Quality Management System.

The first full automatic recharge station in Turkey was developed and produced by Elci in 2003 with a great success. And in 2013 another milestone in the company's history is the design and production of the first recharge station operating by a tablet via Bluetooth technology. From the beginning, our experienced team dedicated to follow the technological developments to produce more user friendly products for more environmentally friendly world.

**ELCI, for a profitable and safe business!**

**OUR MISSION** is to produce user friendly and eco-friendly devices by using advanced technology for air conditioning systems of the automotive industry.

**OUR VISION** is to maintain the leadership in the local market and increase the global market share.



## QUALITY POLICY

To document, certificate and continuously improve our Quality Management System to comply with the ISO 9001 standard requirements,

To meet the requirements and expectations of our internal and external customers, and to continuously provide customer satisfaction,

To produce safe products that will not harm human, animals and environmental health,

To ensure that all employees participate in activities for the constant development and improvement of the quality system,

To make continuous improvements to be able to offer our customers highest quality products at affordable prices.

## ENVIRONMENTAL RESPONSIBILITY

### WE HELP TO SAVE OUR ENVIRONMENT!

The leakage of the refrigerants in the cooling systems gives serious damage to the environment. It is illegal to vent any type of refrigerant from a vehicle, including R-12, R-134a or any other alternative refrigerant.

The refrigerant charging devices manufactured by ELCI allows the reuse of these gases safely. We are aware and sensitive to maintain an ecological balance between human activities and nature.

Go Green – Protect the Environment!





## Innovative Solutions for A/C Charging Systems.

### Two Refrigerant Ready

New generation EKM 3000 is designed to work with both R134a and R1234yf refrigerants after discharging all the refrigerant from the tank. According to the new regulation, any newly introduced vehicle that requires new vehicle type approval after the 31st December 2012, will need to be fitted with an Air Conditioning system filled with the new gas R1234yf.

### Android Operating System

A beautiful design and advanced technology was incorporated in EKM 3000 to create a truly unique device. EKM 3000 comes equipped with a 7" android tablet. Thanks to the BLUETOOTH technology the operator can control and follow the operations via tablet from a distance. All updates can be done freely from the internet via Wi-Fi connection.

### Remote Repair Service

In case of a malfunction, an Elci technician can remotely connect to your tablet to diagnose and fix your problems quickly.



### Diagnostic Tool

The unit is operating with a Diagnostic Tool that enables the operator to erase fault codes of cars. This unique feature is offered as an option.

#### Technical Features

- Compressor: 1/3 hp 12 cc reciprocating
- Vacuum Pump: 7,68 m<sup>3</sup>/h two-stage
- Low Pressure Gauge: 15 Bar
- High Pressure Gauge: 30 Bar
- Electronic Scale Resolution: +/- 5 gr
- Refrigerant Capacity: 15 kg
- Oil Bottle Scale Resolution: +/- 1 gr
- Filter Capacity: 100 kg
- Refrigerant: R1234yf - R134a
- Hose: 180 cm
- Temperature Range: 8-49 °C
- Max. Recovery Rate: 400 gr/min
- Size: 55 cm X 58 cm X 113 cm
- Weight: 95 kg

#### Optional Features

- R1234yf Refrigerant Analyzer: Analyzes the purity of R1234yf to prevent contamination of the system.
- Diagnostic Tool to erase fault codes.
- Detection of car interior and ambient temperature via Bluetooth



# EKM 3000 A/C Recovery, Recycle, Recharge Station

elcielektronik.com



**Memory:** 8GB memory which allows the storage of detailed records of maintenance performed, parts replaced, refrigerant amount charged, oil injected.

**Leak Detection:** Auto Leak Detection via high sensitivity vacuum sensor to detect the leakage to prevent the loss of the refrigerant.

**High Efficiency:** High Efficiency refrigerant recovery that meets the ARI standards

**ABS Housing:** ABS Front Housing that has a high resistance to bumps and scratches.

**Fully Automatic:** Fully Automatic Operation without the user interference.

**Safety:** High Pressure Protection System for safety operation.

**Oil Separation:** Oil Separation for the reuse of the recovered refrigerant.

**Automatic Air Purge System:** Accurate automatic air purge by the help of high sensitivity pressure sensor.

**Filter-drier:** Filter-drier to remove the acid, moisture and particulates from the refrigerant.

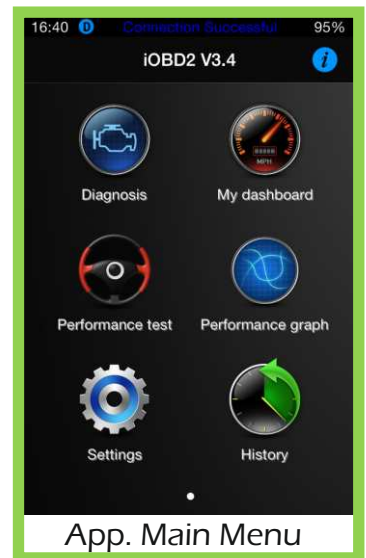
**Thermal Printer:** On board high speed thermal printer with 57mm paper.

**Vehicle Database:** On board Vehicle Database with free of charge updates.

**Built-in Cooling Fans:** The internal cooling system is designed to maintain optimum temperature for stable system operation.



Diagnostic Tool to Erase Fault Codes



App. Main Menu



Thermal Printer



Automatic UV & New Oil Management



Refrigerant Analyzer

# EKM 2500 A/C Recovery, Recycle, Recharge Station

elcielektronik.com

**EKM 2500** is a full automatic complete air conditioning service center for R134a. It recovers, recycles and recharges refrigerant quickly and accurately. A microprocessor controls the units functions and prompts on the display to lead the operator through the operation. The entire service procedure can be done with one hook-up to the vehicle. The equipment is made of high tech ultra-reliable components and user friendly control panel makes every technician an A/C expert. EKM 2500 enables the user to track the recovered, recharged and available refrigerant amount accurately and continuously. And it is supplied with a long term memory for cumulative refrigerant management.



4x20 LCD Display

### Technical Features

- Compressor: 1/3 hp 12 cc reciprocating
- Vacuum Pump: 6 m<sup>3</sup>/h
- Low Pressure Gauge: 15 bar
- High Pressure Gauge: 30 bar
- Electronic Scale Resolution: +/- 5 gr
- Refrigerant Storage Capacity: 15 kg
- 4x20 Character LCD Display
- Max. Recovery Rate: 450 gr/min
- Refrigerant: R134a
- Filter Capacity: 100kg
- Temperature Range: 8-49°C
- Size: 45 cm X 110 cm X 55 cm
- Weight: 81 kg

### Optional Features

- Vacuum Pump: 10.2m<sup>3</sup>/h
- Tank Capacity: 25 kg
- Refrigerant: R407C – R22
- System Flush Kit





## EKM 2500 A/C Recovery, Recycle, Recharge Station

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**Advanced microprocessor control:** Allows the user to set the charge amount, vacuum time, leak test and walk away.

**Automatic air purge:** Eliminates damaging air from internal tank, without any monitoring of gauges or opening valves.

**Automatic oil drain:** The unit automatically drains system oil captured during recovery.

**Electronic scale:** The scale is mounted internally for protection. It weights the recovered refrigerant and charges by weight for highest accuracy.

**Automatic tank full shut-off:** Automatic high pressure shut-off and tank empty warning.

**Internal refrigerant storage tank:** Refrigerant is recovered in and charged from the storage tank which is mounted to the electronic scale for continuous reliability.

**Internal manifold:** The manifold contains all the solenoids those control refrigerant flow to reduce the possibility of leaking connections.

**Heated charging cylinder:** For high-speed charging.

**LCD display:** 4x20 character led large display for operator guidance.

**On-board oil injector:** Allows the user to replace the lost oil.

**Maintenance warning:** For vacuum pump oil, dryer filter and compressor oil.

**Automatic vacuum leak test:** Integrated vacuum sensor.

**Vehicle databank:** The unit is supplied with a vehicle databank that enables the user to set the vehicle model.



Thermal Printer



Emergency Stop



Cooling Fan

# EKM 1500S A/C Recovery, Recycle, Recharge Station

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**EKM 1500S** is a complete air conditioning service center for R134a. It recovers, recycles, evacuates and recharges refrigerant quickly, accurately and automatically. It is designed to service on light to medium duty air conditioning systems. A microprocessor controls the units functions and prompts on the display to lead the operator through the operation. The entire service procedure can be done with one hook-up to the vehicle. The equipment is made of high tech ultra-reliable components and user friendly control panel makes every technician an A/C expert. EKM 1500S enables the user to track the recovered, recharged and available refrigerant amount accurately and continuously. And it is supplied with a long term memory for cumulative refrigerant management.

## Technical Features

- Compressor: 1/3 hp 12 cc reciprocating
- Vacuum pump: 3 m<sup>3</sup>/h
- Low Pressure Gauge: 15 bar
- High Pressure Gauge: 30 bar
- Electronic Scale Resolution: +/- 5 gr
- Refrigerant Storage Capacity: 15 kg
- 4x20 Character LCD Display
- Max. Recovery Rate: 400 gr/min
- Refrigerant: R134a
- Filter Capacity: 100 kg
- Temperature Range: 8-49°C
- Size: 60 cm X 105 cm X 48 cm
- Weight: 65 kg



Storage Pocket

**Advanced microprocessor control:** Allows the user to set the charge amount, vacuum time, leak test and walk away.

**Air purge:** The user is guided by the LCD display in case air purge is needed. By pushing a button air is purged from the system.

**Used oil discharge:** The unit allows the user to discharge the used oil.

**Electronic scale:** The scale is mounted internally for protection. It weights the recovered refrigerant and charges by weight for highest accuracy.

**Automatic tank full shut-off:** Automatic high pressure shut-off.

**Internal refrigerant storage tank:** Refrigerant is recovered in and charged from the storage tank which is mounted to the electronic scale for continuous reliability.

**Internal manifold:** The manifold contains all the solenoids those control refrigerant flow to reduce the possibility of leaking connections.

**LCD display:** 4x20 character led large display for operator guidance.

**On-board oil injector:** Allows the user to replace the lost oil by pushing a button.

**Maintenance warning:** For vacuum pump oil, dryer filter and compressor oil.

**Automatic vacuum leak test:** Integrated vacuum sensor.

**Vehicle databank:** The unit is supplied with a vehicle databank that enables the user to set the vehicle model.

**Ergonomics:** With four rollers (two revolving front rollers)the unit can be directed easily. User friendly control panel is easy accessible.

**Highly Maneuverable:** EKM 1500S can be handled easily and positioned in space limited places.

**ABS front body:** ABS material is used for the front body that has a high resistance to bumps and scratches.

**Storage pocket for tools:** The unit is equipped with integral tool storage pocket.



Bottles for used and new oil



User Friendly Control Panel

## New Design, New Service Opportunities

Not only for daily workshop routine but also portable. With the new EKM Plus portable service station, especially heavy duty construction and agricultural machines, ships can be serviced at the place. Easy to carry station allows the operator to service the vehicles on the field. No need to go to a service station in case your a/c system fails at the construction area or during the harvest or during a cruise. Carry and service.

## Service Everywhere

By the help of the 2000 Watt inverter, the station can be operated by 12 Volts where operating with 220V is not possible (optional).

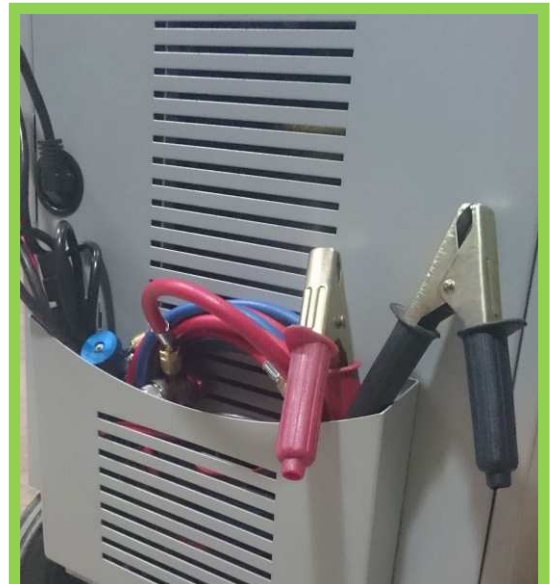


### Main Features

- Microprocessor controlled
- Easy to use menu in English
- Electronic Scale: Accurate, continuous tracking of recovered, recharged and available refrigerant
- High efficiency refrigerant recovery
- Automatic follow up of programmed operations
- On board vehicle database
- Automatic leak detection with high sensitivity vacuum sensor
- Automatic full tank warning
- High sensitivity temperature sensor
- Automatic air purge system
- Filter that refines the refrigerant
- Specially designed oil separation unit to allow the use of recovered gas
- Used oil discharge system
- Oil injection system
- Fast refrigerant charging
- High pressure protection system
- Automatic filter, vacuum pump and compressor maintenance warning
- Displays vacuum timer, the amount of gas recovered and recharged etc. in the statistics menu



User Friendly Control Panel



Storage Pocket

### Technical Features

- Compressor: 1/3 hp 12 cc reciprocating
- Low Pressure Gauge: 15 bar
- High Pressure Gauge: 30 bar
- Electronic Scale Resolution: +/- 5 gr
- Refrigerant Storage Capacity: 5 kg
- 4x20 Character LCD Display
- Max Recovery Rate: 250 gr/min
- Refrigerant: R134a
- Filter Capacity: 50 kg
- Temperature Range: 8-49°C
- Size: 34 cm X 77 cm X 45 cm



Bottles for used and new oil

### Optional Features

- Inverter 2000 Watt for 12 Volt operation
- Vacuum Pump: 3m<sup>3</sup>/h

This portable, easy to carry recharge station allows the operator a quick recharging from the refrigerant tank directly to the vehicle's a/c system. Time saving practical device is controlled by a microprocessor which enables an automatic follow up of programmed operations. Automatic leak detection is supported by an audible and visual warning system. Once the required amount of the refrigerant recharged to the a/c system, OGD stops automatically to prevent excess recharging. There is no need to observe the operation to manually stop the refrigerant flow. Oil injection system, digital scales for accurate refrigerant amount recharging and statics menu for vacuum timer, amount of recharged refrigerant are other main features of the OGD.



User Friendly Control Panel



### Technical Features

- Vacuum Pump: 3 m<sup>3</sup>/h
- Low Pressure Gauge: 15 bar
- High Pressure Gauge: 30 bar
- Electronic Scale Resolution: +/- 5 gr
- 2x16 Character LCD Display
- Refrigerants: R134, R1234yf, R12, R22, R404
- Temperature Range: 8-49°C
- Size: 45 cm X 21 cm X 49 cm
- Weight: 14 kg

In course of time, cooling system may loose the efficiency due to the rust deposits, dirt, grease, scale, grime & solder in the system.

Radiator core clogging is a common problem on older vehicles . The cooling system efficiency can be reduced drastically to restrict the cooling flow. Reduced heat transfer can lead to possible over heating of the system and cause a costly repair.

RTC-1 is designed to repair and increase the performance of the radiator system in the vehicles. There is no need to remove the dashboard. By the help of the two hoses operator can make a connection easily and a microprocessor enables an automatic follow up of operations.

### Main Features

- Microprocessor controlled
- Continuous tracking of flush duration
- Detecting and monitoring the clogged radiator via pressure gauge
- Can switch water rotation by using valves
- Filters out dirt, rust, etc. particles
- Adjustable flush duration
- Electronic filter life monitoring and warning
- Pump maintenance warning
- Monitors number of flushed cars
- Automatic program ending
- Low water level warning
- 4x20 LCD display
- Automatic full tank warning
- Automatic heating system

### Chemical Tank Properties

- 17 liter capacity
- Level controlled
- Automatic temperature controlled
- Special high pressure tank resistant to chemical mixtures

### Technical Features

- Power Supply: 220 V ± 10% / 50 Hz
- Display: 4x20 LCD Display
- Storage Tank Capacity: 15 L
- Water Pump: 35 L/min
- Heater: 2000 W
- Dimensions: 60 cm x 105 cm x 48 cm
- Weight: 40 kg



User Friendly Control Panel

# COMPARISON SHEET

	EKM 3000	EKM 2500	EKM 1500S	EKM Plus+	OGD
R134a Compatible	Standard	Standard	Standard	Standard	Standard
R1234yf Compatible	Standard	Standard	Standard	Standard	Standard
Car Compatible	Standard	Standard	Standard	Standard	Standard
Hybrid and Electric Car Compatible	Standard	Standard	Standard	Standard	Standard
Bus Compatible	Standard	Standard	Standard	Standard	Standard
Full Automatic Operation	Standard	Standard	Standard	Standard	Standard
Automatic Leak Detection	Standard	Standard	Standard	Standard	Standard
Automatic Air Purge	Standard	Standard	Standard	Standard	Standard
Automatic Used Oil Recovery	Standard	Standard	Standard	Standard	Standard
Automatic Maintenance Tracking System	Standard	Standard	Standard	Standard	Standard
Automatic Oil and UV Management	Standard	Standard	Standard	Standard	Standard
Refrigerant Recovery	Standard	Standard	Standard	Standard	Standard
Electronic Refrigerant Scales	Standard	Standard	Standard	Standard	Standard
Digital Vacuum Sensor	Standard	Standard	Standard	Standard	Standard
High Pressure Protection System	Standard	Standard	Standard	Standard	Standard
Vacuum Pump	Standard	Standard	Standard	Optional	Standard
Fan Protection System	Standard	Standard	Standard	Standard	Standard
Touch Screen	Standard	Standard	Standard	Standard	Standard
Bluetooth	Standard	Standard	Standard	Standard	Standard
Wi-Fi	Standard	Standard	Standard	Standard	Standard
Update via Internet	Standard	Standard	Standard	Standard	Standard
Vehicle Database	Standard	Standard	Standard	Standard	Standard
Thermal Printer	Standard	Standard	Standard	Standard	Standard
Vehicle Flushing Kit	Standard	Optional	Standard	Standard	Standard
Refrigerant Identifier Kit	Optional	Standard	Standard	Standard	Standard
Inverter 12V to 220V	Standard	Standard	Standard	Optional	Standard

Standard

Optional

Not Available



**1. PRICES**

For the pricing of the products, please contact with Elci. Pricing includes the packaging.

**2. ACCEPTANCE OF ORDERS**

2.1 Orders below 500,00 USD is not acceptable.

2.2 Orders are only considered as accepted after the confirmation of Elci in written.

2.3 Elci' s written order confirmation is decisive for the scope of delivery.

2.4 Any claims related with the order must be submitted upon receipt of order confirmation.

2.5 Orders are invoiced according to their order confirmations.

**3. DELIVERY PERIOD**

3.1 The delivery dates are only binding if it is expressly confirmed by Elci in written.

3.2 The delivery time starts after sending order confirmation or receipt of payment.

3.3 The delivery time written on order confirmation is approximate.

The buyer cannot take advantage of any increase of delivery time and refuse a delivery or claim for any damage.

3.4 Elci shall not be responsible for any delay at delivery because of any force majeure beyond Elci' s control including but not limited to war, partial or total strikes, breakdown of transportation, shortage of raw material, fires, floods, tooling accidents or any other circumstances impeding the activity of Elci' s work.

**4. DELIVERY**

4.1 The deliveries are made ex-works.

4.2 If Elci accepts to arrange for transportation, according to Buyer' s instructions, any and all forwarding charges shall be invoiced in addition to the Buyer.

4.3 Elci arranges for packing in a manner suitable under normal transport conditions to prevent damage to or deterioration of goods taking into account their destinations.

4.4 The goods are delivered without insurance. The risks at transportation belong to the Buyer.

**5. WARRANTY**

5.1 Elci warrants that the equipment delivered is free from defects in material and workmanship.

This warranty is provided for a period of twenty four (24) months. The warranty period starts from the delivery date.

5.2 Warranty does not apply to parts normally consumed in operation, current maintenance and the adjustments described in the operating instructions provided with the equipment.

5.3 Elci does not accept any liability in the case where the goods are not used in accordance with their proper intent.

5.4 The warranty may not be claimed for damages occurred during the shipment, for damages resulting from improper handling or use, the defects in maintenance, negligence, bad functioning of auxiliary equipment, in the case of force majeure or accident and incorrect power supply.

5.5 In the event of failure, Elci shall be under no liability for any injury, or any loss or damage as the result of the failure other than the guarantee conditions.

**6. PRODUCT MODIFICATION**

6.1 Description and specifications written in Elci' s Price List and catalogues are given as a guide only.

6.2 Elci reserves the right to make changes to the products depending on the technical development any time.

6.3 Elci does not make such changes to the products previously delivered or the delivery of which is in progress.

**7. CLAIMS**

7.1 Any claim relating to the delivery or the product must be notified to Elci with a bill of receipt within 48 hours after the receipt of the goods.

**8. JURISDICTION**

8.1 The place of jurisdiction for any complaint arising out of an order will be Trade of Court of Ankara Republic of Turkey.



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