

A/C Service Station

AC626

Operating instructions



Please read the manual carefully before operation

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Important Safety Information's

This equipment is designed to be operated by qualified and trained personnel. Which should have enough knowledge of air conditioning repair & maintenance, refrigeration and electronics w/high pressure. It should only be operated after reading and understanding the safety warnings and operating procedures in this instruction manual and the vehicle's service manual.

When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

The unit is extremely simple and reliable in selecting and performing all its functions. Therefore, the user is not exposed to any risk, if the general safety guidelines reported below are followed, in association with proper use and maintenance of the unit (improper use and maintenance will reduce the safety of the unit).

1. Checking the unit POE oil always before operation. Avoid working process without enough oil or with bad quality oil.
2. The refrigerant tank must be only filled to 80% of maximum effective capacity in order to avoid the serious accident caused by the additional pressure arising from environmental factors.
3. Keep all soft tubes/hoses away from hot parts and rotating elements, such as: cooling fans, radiators and etc.
4. Always checking the vacuum oil pump, run/work without oil is strictly prohibited.
5. Checking power switch under normal working condition or not. The machine must be well connected with earth and installed against electric leakage to avoid high voltage hurt.
6. Do operate under the instruction to avoid refrigeration from polluted.
7. Polluted refrigeration is avoided from adding into the automobile A/C system.
8. Do avoid too high pressure of refrigerant tank caused by too much refrigeration or too high environmental temperature, which will cause damage of the tank and compressor
9. Make sure to place the vehicle's in "PARK"(if automatic) or "NEUTRAL" (if manual). Then, set the emergency parking brake and block the tires with chocks.
10. Warning: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.
11. This unit is an advanced electromechanical product including precision control components. Never allow operator to make disassembly and service.

WARNINGS



ALLOW ONLY QUALIFIED PERSONNEL TO OPERATE THE UNIT. Before operating the unit, read and follow the instructions and warnings in this manual. The operator must be familiar with air conditioning and refrigeration systems, refrigerants, and the dangers of pressurized components. If the operator cannot read this manual, operating instructions and safety precautions must be read and discussed in the operator's native language.



PRESSURIZED TANK CONTAINS LIQUID REFRIGERANT. Do not overfill the internal storage vessel, because overfilling may cause explosion and personal injury or death. Do not recover refrigerants into nonrefillable containers; use only federally authorized refillable containers



HOSES MAY CONTAIN LIQUID REFRIGERANT UNDER PRESSURE. Handle refrigerant with care as serious injury may occur. Wear protective equipment, including safety goggles, rubber gloves



DO NOT BREATHE REFRIGERANT AND LUBRICANT VAPOR OR MIST. Exposure may cause personal injury, especially to the eyes, nose, throat, and lungs. Use the unit in locations with mechanical ventilation that provides at least four air changes per hour. If accidental system discharge occurs, ventilate the work area before resuming service.

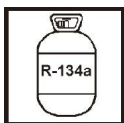


DO NOT USE AN EXTENSION CORD. An extension cord may overheat and cause fire. If you must use an extension cord, use the shortest possible cord with a minimum size of 14 AWG

TO REDUCE THE RISK OF FIRE, do not use the unit in the vicinity of spilled or open containers of gasoline or other flammable substances.



DO NOT USE COMPRESSED AIR TO PRESSURE TEST OR LEAK TEST THE UNIT OR VEHICLE AIR CONDITIONING SYSTEM. Some mixtures of air and R-134a refrigerant are combustible at elevated pressures. These mixtures are potentially dangerous and may result in fire or explosion causing personal injury or property damage.



To prevent cross-contamination, **USE THIS UNIT WITH R-134a REFRIGERANT ONLY.** The unit is designed to recover, recycle, and recharge only R-134a refrigerant. Do not attempt to adapt the unit for another refrigerant. Do not mix refrigerant types through a system or in the same container; mixing of refrigerants will cause severe damage to the unit and the vehicle air conditioning system.



HIGH VOLTAGE ELECTRICITY INSIDE THE UNIT HAS A RISK OF ELECTRICAL SHOCK. Exposure may cause personal injury. Disconnect the power before servicing the unit.



HORIZONTAL HOLD. During operation, the device must be on a level, flat surface so that the measurement can be made correctly



PROTECT THE DEVICE AGAINST RAIN Do not expose this machine to direct sunlight or rain. Used in a well ventilated area.

Brief Description

This fully automatic Air-conditioning (A/C) Service Station is a user-friendly tool specifically designed for the automotive air-conditioning technicians, to carry out the following functions:

- Testing air-conditioning system,
- Recover and recycling the refrigerant from air-conditioning system,
- separate the refrigerant in the AC system from oil and water, and purify it , make it can be reused.
- Vacuum air-conditioning system, test leakage of the AC system.
- automatically discharge the waste oil and recharge with equal qty new oil in AC system
- Electronically charge into the AC system with a programmed amount of refrigerant

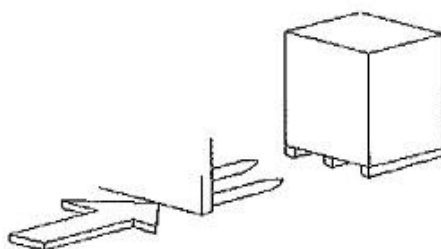
The unit is a microprocessor control system. This provides electronically controlled functions, whilst keeping the operator constantly informed and in full control.

Technical specifications

Power Supply:	220V 50Hz 1PH
Vacuum pump:	60L/Min.
Compressor Power:	3/8hp
Refrigerant Recovery:	R134a
Accuracy of R134a scale:	+/-5g
Max. Weight of the R134a scale:	60kgs
Capacity of R134a Tank:	10Kg
Recovery Speed:	180~350g/min.
Refilling Speed:	800~1500g/min.
Max. Pressure for HP gauge:	34bar
Max. Pressure for LP gauge:	34bar
Max. Pressure for TP gauge:	25bar
Max. Working Pressure:	17.5bar
N.W/G.W	70/77KGS
Dimension	600*570*1110mm

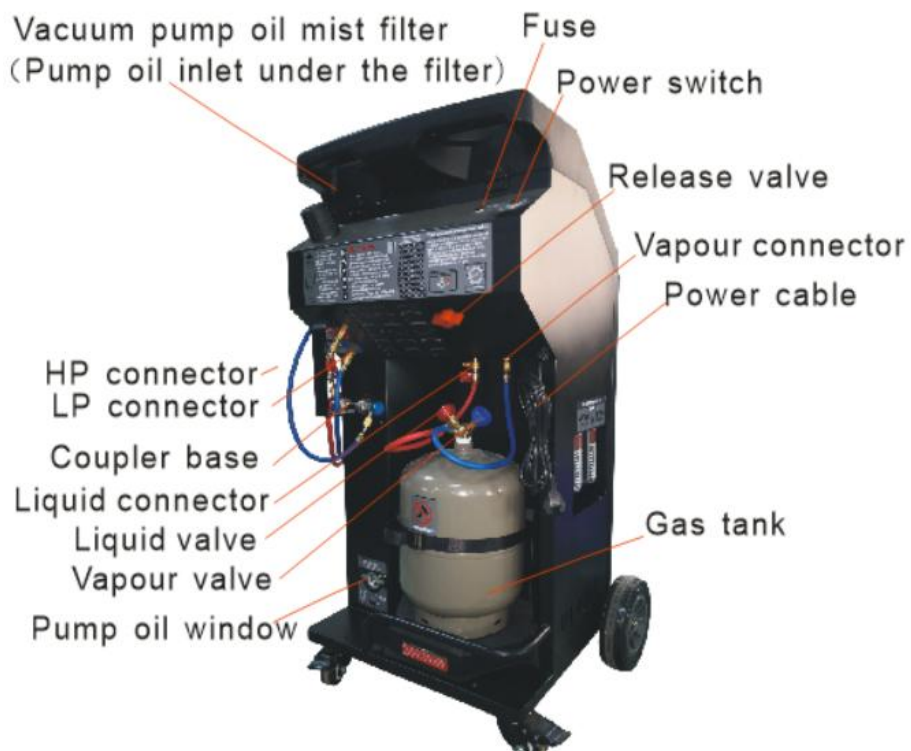
Transport and unpacking

1.The equipment should be carried by forklift for indicattion









- 2.Using the right tools, wearing the safety gloves and other safety tools,when unpacking, the package should unpack the top board first then around board,
3. Make sure the product and acessary in box should be complete and identicaln whit the part list, if not please contact with the local distributor in time
- 4.the packing of the machine is woden package, the proper disposal of the packaging is the reponsibility of the customer

Overview of the A/C Service Station



Keypad








	For selecting function or items or select car data
	For selecting function or items or select car data
	For page up or parameter setting(for all items)
	For page down or parameter setting(for all items)
	Quits current page and returns to previous menu
	To start a procedure or enter the next screen

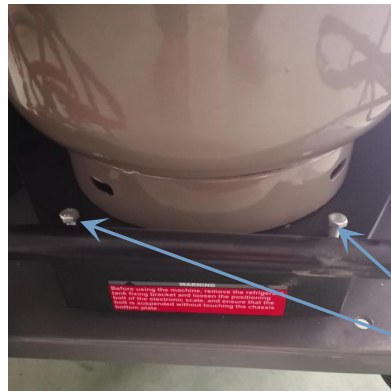
Preparing the Machine for the First Use

Perform the following steps to prepare the unit before the first use.

1. Unpack the equipment you will find the follow accessoris

Pic	Name	Qty
	Manual	1 set
	Power line	1 pc
	1.8m HP/LP hose	Each for 1pc
	HP/LP quick coupler	Each for 1pc
	Wheel with axle	2pcs

2. fix the two wheels on the machine
3. Remove the two electronic Scale protection screws (Reference above picture).



the protection boot

3. Check the vacuum pump oil level

Check the vacuum pump oil level , oil level should be between with the line on the vacuum pump sight glass when the pump is not running.



4. Fill up refrigerant into refrigerant tank.

Refrigerant tank fitted on a platform is evacuated during the production process.

Note, please check if refrigerant tank is evacuated by view TP gauge (during transport, vacuum could be lost, If so, please contact your local distributor)

- a. Remove the quick couple from the blue hose. Leave the red quick coupling on the red hose (see following figure)



- b. make sure the other end of the red hose is connected with high-pressure port of the unit
- c. connect the blue hose to the external R134a tank and the other end connected with low-pressure port of the unit.
- d. Make sure the valve on external R134a refrigerant tank is closed
- e. Perform the Vacuum function 2 minute in manual mode
- f. Turn external R134a refrigerant tank upside down for liquid delivery, open the valve on the external

R134a refrigerant tank,

- g. In manual mode press "Recovery" key and setup the 3kgs R134a to recovery, then press enter key
- h. the equipment will automatic stop while reach the set weight.
- i. Close the valve on the external tank and then running recovery again, when the machine shows followed interface press ESC key immediately
- j. Now the procedure is completed

recovery
Waste oil draining..
it will take about
60s, pls wait.....
countdown: **sec



5. fill new coolant oil

Unscrew the new oil bottle then Add about 250cc of new coolant oil into the new oil bottle, the oil type should meet the requirements of maintenance of automotive air conditioning system.

6. connect the power

Connect the power supply and switch it on. now the equipment is ready to use

7. turn the printer switch to on position

Operation instructions

Manual mode

With this procedure, all functions (Refrigerant Recovery & Recycling, Recovered Oil Drain, A/C System evacuation, New Oil Injection and Refrigerant Charge) can be performed individually (step by step).

recover refrigerant from a Vehicle

The purpose of the Recovery mode is to recover refrigerant from the air conditioning system, which will condense, purify and store the liquid refrigerant in the storage cylinder ready for re-use.

1. Empty the oil drain bottle before starting a recovery. unscrew the oil drain bottle from the machine

Note: The machine gives an alert while enter the recovery process, but it is a good practice to completely empty the oil drain bottle before recovering an A/C system

1. Connecting to the A/C system

Use the service hose quick-connect couplers to connect the hoses to the A/C system service ports, bearing in mind that BLUE must be connected to the low-pressure (suction) side and RED to high pressure (discharge) side.

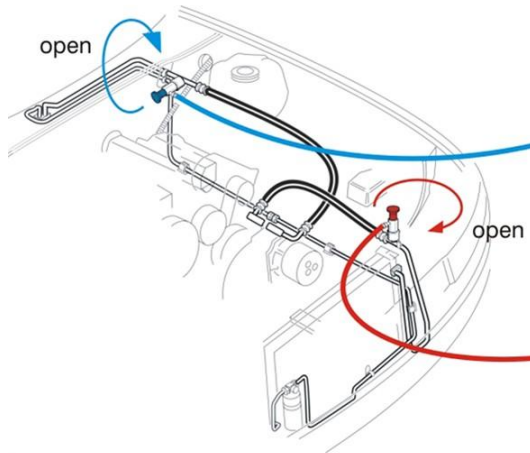
NOTE: Before connecting the quick couplers, clean the a/c ports of any foreign material

3. Open the coupler valves on the hoses by turning the collars clockwise.

Winding the quick coupler hand wheel clockwise, will allow the refrigerant to flow through the hoses. Turning hand wheel in opposite direction, the flow will be closed. If there is any refrigerant in the air-conditioning system, the pressure gauges will indicate a pressure rise.

IMPORTANT:

The unit gauges are important and useful instruments. The operator should have basic understanding between gauge reading and air-conditioning system operation, in order to correctly diagnose any possible system malfunction.



4. Turn on the power switch, the unit will show.

Pls check oil level!
 tank R134a weight:
 *****g
 enter: next

5. Press ENTER key to enter the main menu page:

Main menu
 Automatic mode
 Manual mode
 System Setup
 ↑ ↓ :select, ent:next

6. select manual mode by ↑ ↓ keys, then press enter key it will show

Recovery
 Vacuum/Leakage test
 oil injection
 R134a recharge
 ↑ ↓ :select, ent:next

7. Select "recovery" then press enter key, the unit shows

Recovery
 Connect HP/LP hose
 with auto A/C & open
 the HP/LP valve
 Ent: next, stop: back

8. while Connect the two hose with the car and opening the two quick coupler valves then press enter key, it shows

Recovery
 Tank R134a: *****g
 Set Rec qty: *****g
 ← →:input, Ent: next

9. set the recovery qty(normally set maxim qty) by ← or →keys, then press enter key,the unit shows

check used oil level,
 ensure its less than
 250ml
 enter: next

check used oil level, if it is over 250ml, pls empty the used oil bottle.

Note: it is a good practice to completely empty the used oil bottle before recovery

10. then press enter key,machine start recovering and it will shows the set qty and has recovered qty

Recovering.....
 Set qty: *****g
 recovered: *****g

Note: maybe it will gives an alert as followed, point out a max recovery qty, pls press enter key and re-set the recovery qty

Set qty over, Pls
 Reset, tank can
 only recov *****g

11. when the refrigerant of A/C system is completely recycled or recovered qty reached set qty, the unit will continue recovery 1min. and it display as figure followed,

recovery
 R134a Recovery end
 Recovered: *****g
 Countdown: **min**s

Note:

- a. if the set recover qty less than the qty of R134a exist in the auto A/C system, the unit will stop recovering automatically while recovered qty reached the set qty. and it display as followed, press any key back to recovry page

Warning
 R134a Recovery have
 Not completed,pls
 recovery again
 Press Anykey to back

- b. during the recovery process, if the machine stop working with beep sound and shows as followed fig, it means the unit tank pressure is equal to or more than 17.5bar, you can Press the hand valve fixed the rear of the machine to release tank pressure till 12 bar(by view TP gauge), then press stop key and the unit can perform recovery again

Warning

Tank Pressure high !

Open the hand valve
to release pressure

stop:back

11. one minutes later,the unit begin to drain the waste oil out automatically, the unit shows as followed

recovery

Waste oil draining..

it will take about
60s, pls wait.....

countdown: **sec

12. one minutes later, oil drained completed and the unit shows, if necessary press enter key to print the result, otherwise press stop key back to the manual page

recovery

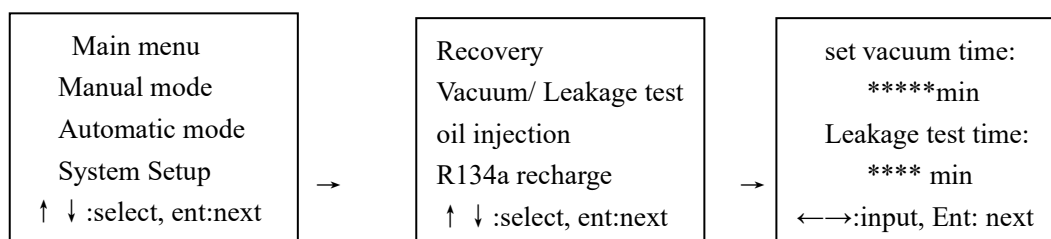
oil drain completed

Ent:Print, stop:back

Evacuate the A/C System & leakage test

In the evacuation mode the air and moisture in the air conditioning system is removed and exhausted to the atmosphere. The evacuation mode runs for a predetermined time selected by the operator.

1. Ensure service hoses are connected to the vehicle A/C system, and coupler valves are OPEN.
2. enter the manual mode and select vacuum/leakage test by ↑↓ keys, then press enter key, unit shows



3. Set vacuum time by←and→keys, then press ENTER key to ensure, then set the Leakage test time by←and→keys, then pPress enter key to start the proses, now the display shows as followed

vacuum

Vacuumizing....

set time: *****min

countdown: **min**s

Note: if the a/c system exist refrigerant, the unit will refuse to perform the vacuumizing and gives an alert as followed, press enter key back to the recovery page

Warning
R134a in car,pls
Recover first

4. The unit evacuates the A/C system and stops when the specified amount of time has elapsed. the unit enter the leakage test procedure

Note: **At any time the evacuation can be paused or cancelled by pressing the stop key**

5. **after the vacuum the unit will automatic enter the leakage testing under the manual mode**, and the machine display as figure, pls record the vacuum degree(view HP/LP gauge)

Leakage test
Leakage testing....
Pls record pressure,
countdown:*****min

6. while the specified amount of time has elapsed the unit display as followed fig, pls ciompare the read of HP and LP gauge, if the read become higher , it means that leakage exist in A/C system, pls repair first.

Leakage test
Leakage testing end,
Pls compare pressure
data
Ent:Print,stop: back

Oil injection

The purpose of this function is fill refrigerant oil from the oil reservoir to the vehicle air-conditioning system.

Important: The unit requires that the air conditioning system has previously been evacuated to a maximum vacuum before this function can be carried out.

- 1. Make sure there is enough new oil in the oil bottle**
- press enter key enter the main menu,then select maual mode by ↑ ↓ key

Main menu
Automatic mode
Manual mode
System Setup
↑ ↓ :select, ent:next

- press enter key, LCD shows as figure, select “oil injection” by ↑ ↓ keys

Recovery
Vacuum/Leakage test
oil injection
R134a recharge
↑ ↓ :select, ent:next

- press enter key, LCD shows as figure, pls ensure the new oil level is more than 100 ml

check new oil level,
ensure its more than
100 ml

enter: next

5. press enter key, LCD shows as figure, set the oil qty by ← or → keys

Oil injection

set qty: ***ml

←→:input, Ent: next

6. then press enter key, LCD shows as figure, And the unit begin to adding oil

Oil injection

Oil injection.....

Pls wait

7. After completion of oil injection, the unit will show as followed fig

Oil injection

Oil injection end

Ent:Print,stop: back

Conditions that will prevent oil injection

- The unit will not inject oil if the following conditions exist:
- Insufficient vacuum.
- quick coupler valve on service hose are closed

Recharge the A/C System

The purpose of this function is to batch a user defined weight amount of refrigerant into the air-conditioning system.

It is recommended that the A/C system is always properly evacuated before refrigerant is charged in to the A/C system.

1. press enter key enter the main menu,then select maual mode by ↑ ↓ key

Main menu

Automatic mode

Manual mode

System Setup

↑ ↓ :select, ent:next

2. press enter key, LCD shows as figure,

Recovery
 Vacuum/Leakage test
 oil injection
 R134a recharge
 ↑ ↓ :select, ent:next

select "R134a recharge" by ↑ ↓ keys, press enter key LCD will show:

Recharge
 Connect HP/LP hose
 with auto A/C & open
 the HP/LP valve
 Ent: next, stop: back

press enter key LCD will show

Recharge
 tank R134a: *****g
 Set fill qty: *****g
 ← → :input, Ent: next

3. set the amount of refrigerant to be charged into the a/c system by ← → keys, then press enter key, machine start recharge and it will shows the set qty and has recharged qty

Recharge
 R134a charging...
 Set qty: *****g
 charged:*****g

Note:

maybe the screen display the followed fig pointing the max charging weight, it means there is not enough R134a in tank, pls recovery more into the tank or re-set the charging qty

Set qty over, Pls
 Reset, tank can
 only charge *****g

4. when R134a recharged qty reached set amount, the equipment stops recharge with beep sound and screen display as figure followed, pls remove the HP hose from car and running auto ac to suction the refrigerant exist in the service hose

Recharge
 Remove HP hose from
 Car, runing auto A/C
 Ent: next

5. then press enter key the unit display as followed,

Countdown: 5min 0s

6. 5 min later, the unit shows

Recharge
R134a recharge end
R134a intank: *****g
Charged: *****g
Ent:Print stop: back

Operating tips

Anytime when recharging slowly or stop rechaging but no any indicator, you can remove the HP service hose from A/C system and running car A/C system to accelerate rechargeing speed

Automatic mode

In the Automatic cycle mode, all the operations will be performed one after the other.

(Refrigerant Recovering and Recycling, Recovered Oil Drain, System Evacuation, New Oil Injection and Refrigerant Charging) are performed automatically, in one cycle.

1. press enter key enter the main menu, then select "Automatic mode" by ↑ ↓ key

Main menu
Automatic mode
Manual mode
System Setup
↑ ↓ :select, ent:next

2. press enter key The LCD display

Pls ensure new oil
more than 100ml &
used oil less than
250ml
enter: next

3. press enter key The LCD display

Automatic mode

Manual input
database
↑ ↓ :select, ent:next

5. Select "Manual input" by arrow key, followed enter key, it will show


```

Set Rec qty:  3000g
Vacuum time: ****min
Oil injection :  ***ml
Recharge qty: ***** g
← →:input, Ent: next

```

6. If select “database” then press enter key the unit shows as followed,

```

Alfa romeo
Audi
Bedford
Bmw
chrysler

```

press ← → keys For page up/page down, press ↑ ↓ key to select car brand ,then press enter key, it will shows the car model :

```

145
146
147
155
156

```

Select model then press enter key, the unit display

```

1.3/1994~97  700
1.4/1994~97  700
1.6/1994~97  700
1.7/1994~97  700
JTD/1998~01  800

```

Select the the displacement and year, then press enter, it shows

```

Set Rec qty:  3000g
Vacuum time: 10min
Oil injection :  0ml
Recharge qty: 700 g
← →:input, Ent: next

```

7.pls set parameter by ← → key then press enter key to conform, machine will enter automatic cycle, then the unit runs recovering, discharging oil, vacuum, adding oil , recharging automatically by sequence.

Automatic Recovering..... Set qty: ****g recovered: ****g	Automatic Waste oil draining.. it will take about 60s, pls wait.... countdown: **sec	Automatic Vacuumizing.... set time: **min countdown:**min**s	Automatic Oil injection... Pls wait	Recharge R134a charging... Set qty: *****g charged:*****g
--	--	---	---	--

In this procediure there is no need the person stay front of the unit, while the machine stop automatically, the unit display as followed with beep sounds; pls remove the HP hose from car and running auto ac to

suction the refrigerant existed in the service hose

Recharge
Remove HP hose from
Car, runing auto A/C

Ent: next

8.then press enter key the unit display as followed,

Countdown: 5min 0s

5 min later, the unit shows

Automatic
R134a recharge end
R134a intank: *****g
Charged: *****g
Ent:Print,stop: back

the hole automatic cycle completed

System Setup

1.Turn on the unit, the LCD display as figure, pls the new oil and used oil level

Pls check oil level!
tank R134a weight:
*****g

enter: next

2. enter the main menu and select “system setup” then press enter key

Main menu
Automatic mode
Manual mode
System Setup
↑ ↓ :select, ent:next

3. press enter key The LCD dispaly

Clear filter value
Clear vacuum time
R134 calibrate
Clear R134a tank
sys self test

4. replace the dry filter

System will calculate and record total quantity of refrigerant recovered automatically. When total recovered R134a amount over 98kgs, the unit will display

The dry-filter has
filtered R134a over 98
kg, please replace the
dry-filter
Enter: next, stop: back

4.1 When the machine shows above interface, press ENTER button to continue operation. Then Replace the filter after finishing operation

4.2 Dismantle the cover of the unit and remove the old dry filter, replacing with a new one.



4.3 After replace the dry filter, press enter key enter system set up, then select clear filter then press enter key the unit shows

Clear filter value
The dry-filter has
filtered R134a
*****kg
Ent: clear, stop: back

then press enter key to clear the value, then press stop key to save

note:

1. should apply dry filter of same specification as original parts
2. note mount direction of dry filter
3. use two wrenches at removing/mounting dry filter adaptors

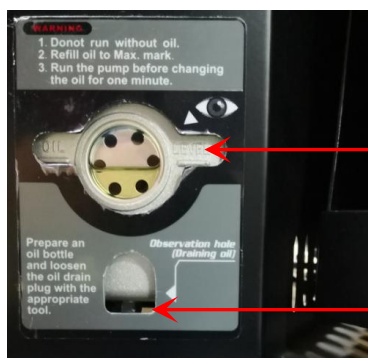
5. Change Vacuum Pump Oil

For maximum vacuum pump performance, change the vacuum pump oil after every 10 hours of operation. System will calculate and record total time of “vacuum” operation

And it will remind you to replace oil after 10hours accumulated working times since the last oil change,when the followed figure display means that you should change the pump oil, follow is the changing step

warning
Vacuum pump has been
running 10 hours,Pls
change pump oil
Enter: next,stop: back

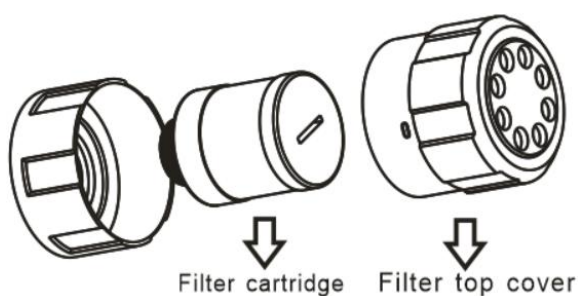
1. Program hints to replace the pump oil when the vacuum pump runs 10 hours total from last time oil replaced
2. Press ENTER button to continue operation. Replace the vacuum pump oil after finishing vacuum operation
3. Place an oil container under the oil drain outlet of vacuum pump
4. Unscrew the oil drain plug fixed on the vacuum pump, the wasted pump oil will flow to the oil container



Oil level window

Oil drain plug

5. Recover the oil drain plug after finish draining wasted oil
6. turn the oil mist filter top cover anticlockwise about 1cm then take it away
7. turn the filter cartridge anticlockwise and take it away
8. pour the new pump oil into the vacuum pump from the filter fixed hole. (Please use 100# vacuum pump oil)



Filter cartridge

Filter top cover



Vacuum oil inlet

9. Screw down the filter cartridge when the oil exceed the oil level line. then recover the filter top cover
10. turn on the power switch and enter into the operation interface
11. After change the pump oil, press enter key enter system set up and select “clear vacuum time”

Clear vacuum time
The vacuum pump
has running: ****h
Ent:clear,stop:back

- 12.then press enter key shows above fig, then press enter key to clear the value,then press stop key to save

6. calibrate the refrigerant scale

Any time you doubt the R134a scale's accuracy, you may do a calibration as followed steps

- a. press enter key enter system set up, then select R134a calibrate

Clear filter value
Clear vacuum time
R134 calibrate
Clear R134a tank
sys self test

- b. press enter key the unit display

Pls remove the tank
From the R134 scale
& ensure nothing on
the scale plate
Ent:next,stop:back

Then remove the refrigerant tank from scale plate by unscrew the three fixing screws(no need to dismantle the two hose fixed on the tank) and make sure there is nothing on the scale plate

- c. Then press enter key LCD displays

No-load: *****
Weights:
On load:

Ent:next,stop:back

- d. Press enter key then Input the value of the weight which you have(for example 8000g), then put the weight (which weight equals you input value) on the scale plate

No-load: *****
Weights: 8000g
On load:

← →:input, Ent: next

- e. Then press enter key LCD displays as followed, the calibration is completed, then press stop key to back previous menu

No-load: *****
Weights: 8000g
On load: *****
Press ent then stop

7. Clear R134a tank

The function is used for Eliminate tank weight of the refrigerant scale after the calibration finish, step as follow

- a. remove the weight and put the empty refrigerant tank on the scale plate then fixed the three screws on
- b. enter the "system setup", then select "**Clear R134a tank**", press enter key LCD as fig followed

Clear R134a tank
Empty tank: *****g

Ent:clear,stop:back

- c. then press enter key to clear the value, then press stop key to save

Note: if the tank contains refrigerant, the clear function will not be effected unless replaced with a different tank

8. system self-test

it is convenient for the rapairer to sevice the unit while the unit emerge any problems

it is used for diagnostic the 8pcs of magnetic valve and 2 motors wether works normally

- a. turn on the unit, press enter key enter system set up, the unit display as follow

Clear filter value
Clear vacuum time
R134 calibrate
Clear R134a tank
sys self test

- b. select "system self-test" by ↑ ↓ key press enter key LCD display as followed
or page down by press →key

waste gas valve
new oil valve
waste oil valve
recovery valve
vacuum valve

HP valve
charge valve
UV valve
compressor
vacuum pump

- c. select an item then press enter key the unit display

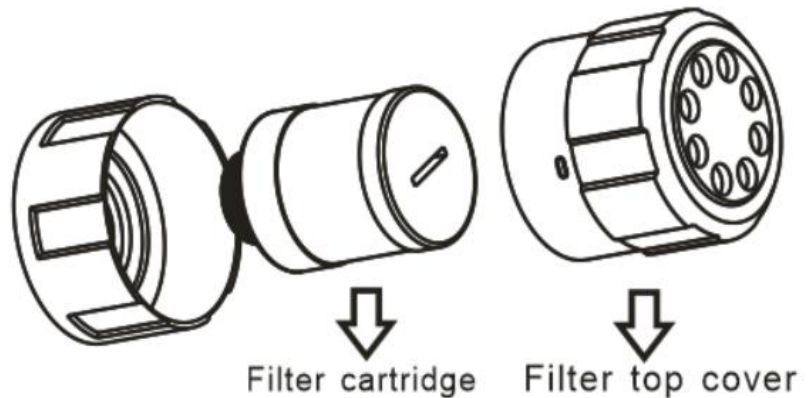
Open
close

- d. select the valve state by ↑ ↓ key then press enter key to open or close the parts

9. Replace the vacuum pump oil mist filter

the vacuum pump oil mist filter is mounted on the rear of the equipment, It is recommended that to replace the vacuum pump oil mist filter every half a year, please refer the follow description to replace the filter

1. turn the oil mist filter top cover anticlockwise about 1cm then take it away
2. turn the filter cartridge anticlockwise and take it away
3. screw down a new filter cartridge instead previous
4. then recover the filter top cover



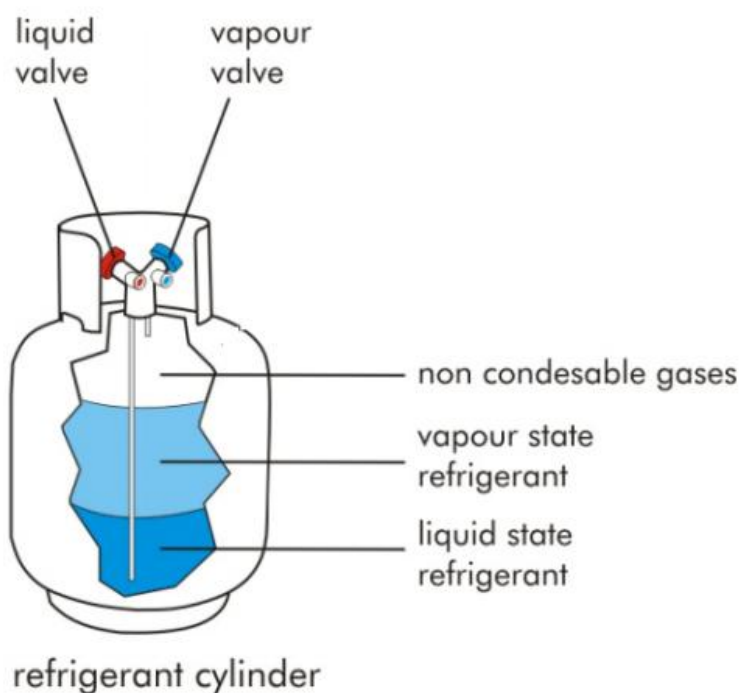
Cylinder Air Purge

Once a week check if there is non-condensable (air) build up in the refrigerant cylinder.

First, measure the ambient temperature. Then read the tank pressure on TP gauge and compare it with the temperature pressure chart, affixed to the machine.

If the cylinder pressure is higher than the pressure/temperature chart, there are non-condensable gases (air) in the refrigerant tank. Press the green button fixed the rear of the machine to purge the waste gases from the tank and bring back the pressure to the recommended chart values.

NOTE: After recovery process it is normal that cylinder pressure is higher than the pressure/temperature chart shows. Always read the tank pressure gauge first thing in the morning before operating the machine.



TROUBLE SHOOTING

	fault	cause	remedy
A	LCD CAN'T LIGHT	A1- no power	- check the power supply
		A2- power connector fech away	- connect well
		A3- fuse melt	- replace a new one
		A4- cpu board or LCD WRONG	- replace a new one
B	Can't display the refrigerant weight	B1- scale protecton bolt has not remove	- take off the protecton bolt
		B2- sensor connector fech away	- connect well
		B3- sensor fault	- replace a new one
		B4- cpu board fault	- replace a new one
C	Can't perform recovery	C1- solenoid valve not work	- check the relative relay
			- chenge the solenoid valve
		C2- expansion valve jam	- reversed flush
			- ice jam, 30min later recovery again
		C3- copressor no power	- check the relative relay
D	No oil drain	C4- compressor fault	- replace a new one
		D1- solenoid vavle not work	- check the relative relay
E	Can't vacuumize	E1- solenoid vavle not work	- check the relative relay
			- replace a new one
		E2- pump can not work	- check the relative relay
			- replace a new vacuum pump
			-change the pump oil
F	No display	F1- power connector fech away	- connect well
		F2- transformer fault	- change a new one
		F3-cant see any character	- adjusting the potentiometer of cpu board
G	Can't charge refrigerant	G1- refrigerant not enough	-Fill refrigerant into refrigerant tank
		G2- weight scale fault	- change a scale
		G3- solenoid vavle not work	- check the relative relay
			- replace a new solenoid valve
H	Too much noise	Vacuum Pump lack oil	- add enough pump oil
		Pump screws loose	- tighten the screws
		durty in solenoid valve	- change a new solenoid valve
		Fan blade touched rear cover	- check and repair