



OPERATOR MANUAL

Automotive Air-Conditioning Service Equipment

WOW! COOLIUS 2700 BT



WOW! Coolius 2700BT

This equipment has been extensively researched, designed and developed with the prime objective in satisfying the workshop operator and technician in carrying out the most efficient air-conditioning diagnostic and service procedure, which can not be achieved with any other equipment of this kind.

Please follow the proceeding instructions carefully.

If there is anything you do not understand fully in the proceeding text or images, please do not hesitate to contact your local distributor or manufacturer. We will be only too happy to assist you.



IMPORTANT:

This manual contains important information pertinent to operator safety, and must accompany the unit, in the case of sale or transfer to another party.

Manufacturer reserves the right to modify this manual and the unit itself at any time without prior notice

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1 Introduction

Coolius 2700 BT - Advanced Refrigerant Processor 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.
- Electronically gauge amount of refrigerant recovered from air-conditioning system.
- Electronically gauge amount of oil removed from air-conditioning system (if any).
- Evacuate air-conditioning system.
- Electronically charge lubricating oil & UV dye by volume into the air-conditioning system.
- Electronically charge refrigerant into the air-conditioning system by weight.
- Electronically displays vent temperature.
- Electronically Flush A/C system (optional).
- PC communication via blue tooth (optional).
- Refrigerant identification (optional).

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

This unit has been designed and build to be long lasting and with high level of reliability including maximum safety for the operator. The operator needs only to be responsible for the correct use and maintenance of the unit, in accordance with the instructions found in this manual.

Environmental information

This product may contain substances that can be hazardous to the environmental or to human health if it's not disposed of properly.

Electrical and electronic equipments should never be disposed of in the usual municipal waste, but must be separately collected for their proper treatment (recycling).

We also recommend that you adopt appropriate measures for environmental protection: recycling of the internal and external packaging of the product, including batteries (if any).

With your help it is possible to protect our planet and improve the quality of life, by preventing potentially hazardous substances being released in to our environment.

2 SAFETY FIRST! Important Safety Information's

This operator's manual contains important safety procedures relating to the operation and maintenance of this equipment. Failure to follow the instructions contained in this manual may result in serious injury.

- **Read this user manual carefully** before operating the unit. If you do not understand any section of this manual, please contact your nearest distributor or manufacturer.
- **This equipment is to be operated by accredited technician only!** Users must have basic knowledge of air-conditioning and refrigeration systems, including potential hazards associated with the handling of refrigerants and systems under high pressure.
- Handle refrigerant with care as serious injury may occur. **Always wear appropriate protective clothing and safety glasses.**



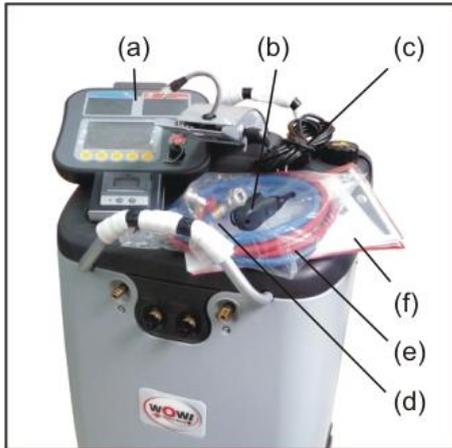
- Avoid inhalation of the refrigerant or oil vapours. Use only in well ventilated work areas.
- Use only pure R134a refrigerant with this equipment.
- Do not expose the machine to direct artificial heat.
- Do not expose the machine to wet environment. Keep Dry.
- Do not tamper with or change safety control devices or their settings.
- The power cable may only be connected to a socket with nominal voltage stated on the rating plate, located at the rear of the unit.
- Power lead plug to be connected only to power point with an earth.
- When transporting the unit keep upright and remove refrigerant cylinder from platform.
- Never operate the equipment with a damaged power lead, replace it immediately.
- **RISK OF ELECTRICAL SHOCK.** Before removing any protective cover from unit, always unplug power lead from power point.
- Do not cover ventilation openings on chassis cover when the unit is operating.
- Maintenance is to be carried out as per the manufacturer recommendation shown in this manual. Only original parts are to be used for maintenance and repairs.
- Maintenance of the unit must only be performed by an authorized technician.
- Only non aggressive substances to be used for cleaning of the unit.
- WOW! Coolius 2700-BT does not contain or should be operated with flammable refrigerants.

3 Technical Features

Refrigerant	R134a
Electronic refrigerant scale	5g resolution
Load cell	60kg with 150% overload capacity
LP and HP gauges	High Clarity Digital Display
Recovery cylinder	27kg
Recovery pump	Danfoss SC12G,
Recovery rate	600 g/min (liquid state)
Vacuum pump	2 stage, 170 l/min (6cfm),
Vacuum	3 x 10 ⁻¹ Pa
Dimensions	500 mm, 650mm, H-1320 mm (1000 packed)
Weight	100 kg
Supply voltage	230VAC- 50/60Hz
Power	700 W
Max. Current	6.7A
Working conditions	0 to 40°C ambient temperature, up to 80% humidity, 2000m altitude
Noise level	< 70 dB (A).
Fuse	10 amp/250V (slow blow type)
Measuring instrument	I category (Not to be mixed with II, III, IV category).
Approvals	EN 61010-1 Electric safety, EN 55014-1 EMC-CE

4 Preparing the Machine for Use

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



1. Remove the carton box and Styrofoam inserts.

2. Check to ensure that all of the accessory components are with the unit:

- (a) Unit Head
- (b) Wireless temperature sensor with USB cable
- (c) Power lead
- (d) Brass adapter for refrigerant transfer
- (e) Service hoses with quick couplers
- (f) User's manual

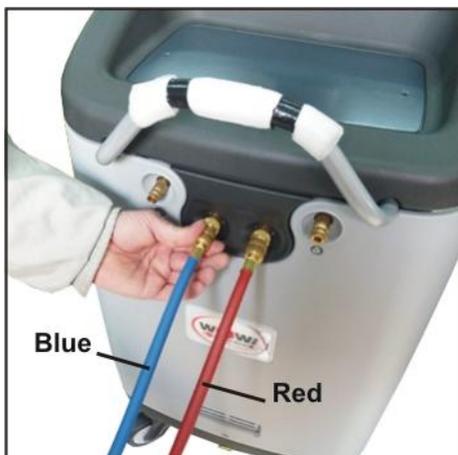


Two securing M6 bolts



3. Unscrew two securing M6 bolts situated on each side of the bottom of the platform base.

4. Place and secure the unit head, connect the cable.



5. Connect suction and discharge (blue & red) service hose to the front service ports of the machine, making sure the "O" ring seals on the end of each hose fitting are inserted correctly.

6. Connect power lead to power socket situated behind the right hand rear wheel, connect power lead plug to suitable power outlet, making sure it has an earth connection.

5 Main Components Location



Coolius 2700PC - Front View

Coolius 2700PC - Back View

NOTE:

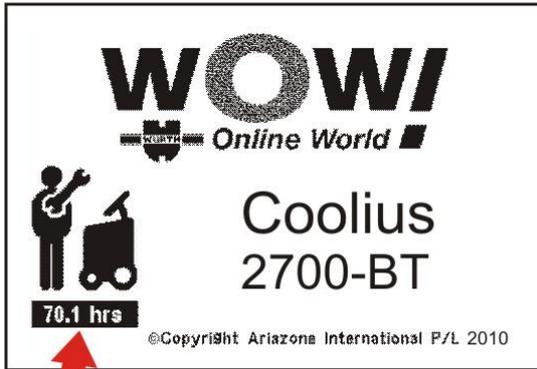
No hand valves are incorporated on the Coolius 2700 BT. A series of electronically controlled valves are incorporated to precisely control the functionality of the machine. No more confusion on which valve to turn off or on.

1. **LP Digital Display (Suction)** - A large 80 mm x 50 mm digital display, which displays A/C suction pressure. The digital display is mounted on the head panel for easy viewing by the operator. Pressure is displayed in Bar & PSI, depended on the user selection.
2. **HP Digital Display (Discharge)** - A large 80 mm x 50 mm digital display, which displays A/C discharge pressure. The digital display is mounted on the head panel for easy viewing by the operator. Pressure is displayed in Bar & PSI, depended on the user selection.
3. **Touch Screen** – All functions icons are displayed on the LCD touch screen. All functions are selected by touching the appropriate icon on the display. The operator is guided step by step in setting and initiating each selected function.
4. **Stop and Start Button** - The stop and start button are conveniently located on the front panel to give to the operator complete control of the equipment.
5. **Printer** - The thermal printer will print all results at the end of each function once completed.
6. **USB to WTS charging lead** - The USB port is used for downloading software and charging the wireless temperature sensors.
7. **Connecting Cable** - A user friendly connecting cable is used to connect the head with IO board or PC interface adaption.
8. **New Oil 1 Injection vessel** - A large capacity vessel of 240ml is mounted on the left side of the unit to electronically inject the recovered amount of oil back in to air conditioning system, or to select the desired amount of oil to be injected.

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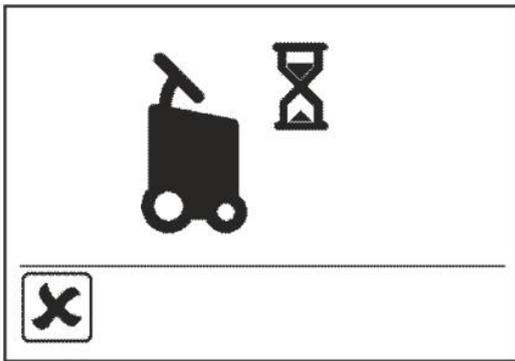
9. **New Oil 2 / UV dye Injection vessel** - A large capacity vessel of 240ml is mounted on the right side of the unit to electronically inject the oil or UV dye in to the A/C system.
10. **Recovered Oil Drain Ball Valve** - The Coolius 2700-BT incorporates an internal oil vessel which measures and retains oil (if any) that is removed from A/C system during the recovery process. The operator is prompted when the valve should be open to drain the internal vessel, when full.
11. **Suction and Discharge Ports with pre-filters** - This ports are used to connect to the vehicle A/C system via service hoses.
12. **Service Hoses Storage Ports** - These ports are used to store the suction and discharge service hoses quick couplers to avoid contaminations and damage.
13. **ON/OFF Switch** - This switch is used to switch the machine on and off.
14. **Power Inlet Socket**- This socket is used to connect the machine to the power supply via the power lead.
15. **Front Cover**- The cover id to protect the internal components of the machine.
16. **Lower Cover**- The lower cover houses the lower internal components of the machine.
17. **Upper Cover**- The upper cover houses the upper components of the machine, furthermore it incorporates a tool tray, conveniently located on the front section of the machine.
18. **Cylinder Cover**- This cover is used to protect the cylinder.
19. **Rear Handle** - This added handle is used to enhance the monuvrability of the machine.
20. **Caster Wheels** - Heavy duty oil resistant caster wheels are used to manoeuvre the machine in the workshop easily.
21. **Rear wheels** - two rears large 200 mm oil resistant wheel are used to make the monuvrability of the machine easy on rough floor surfaces.

6 Switching ON the Machine



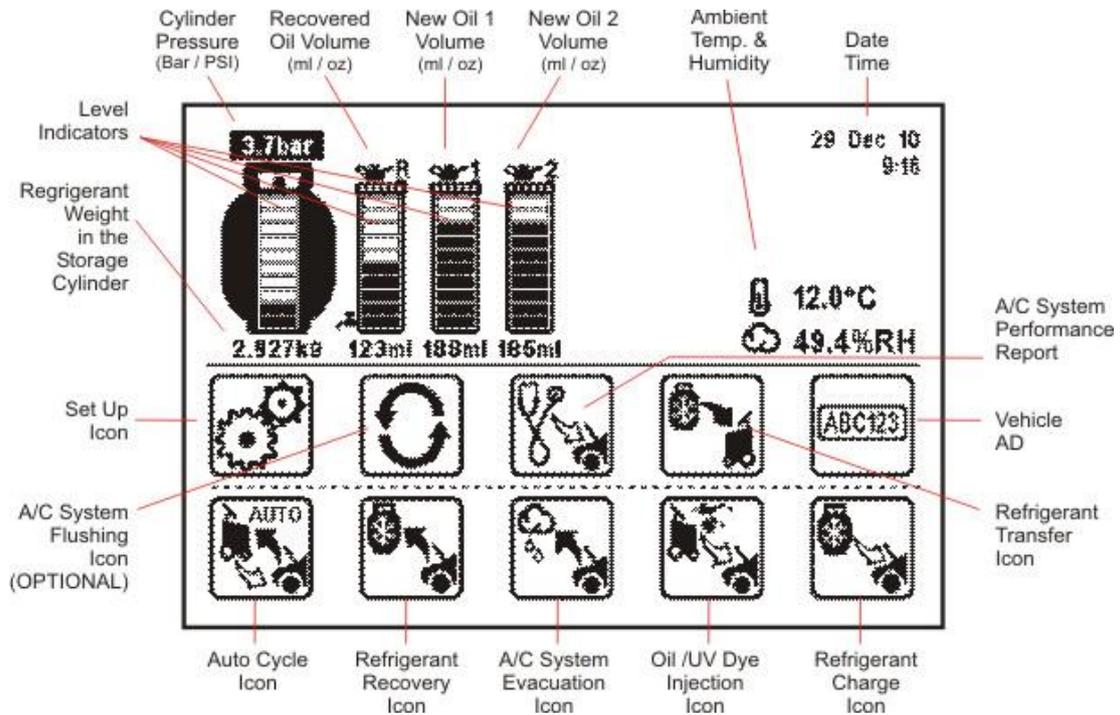
Remaining Working Hours

Switch on machine power switch, the machine will display the number of hours left before the maintenance service is required.



Followed by **self purge and hose evacuation** (if necessary). This special function will prevent non-condensable (air) to be pushed in to the cylinder, therefore maintaining maximum refrigerant purity.

Once this function is completed, the main menu is displayed on the LCD.



Coolius 2700-PC - Main Menu

7 Icons and their meaning



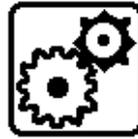
Machine requires servicing.



The machine is self purging.



Updating software.



Set up, adjusting settings.



Set weight.



Please wait.



Edit.



Return, returning to previous menu.



Left arrow, scrolling left.



Right arrow, scrolling right.



Down arrow, scrolling down.



Up arrow, scrolling up.



Minus (Decrease).



Plus (Increase).



Good, function completed successfully.



Bad result is achieved and cancel symbol.



Cancel symbol.



Set time.



Power.



Start button, starting a function.



The air-conditioning system contains refrigerant (pressure in A/C system).



There is no refrigerant in the air-conditioning system or quick couplers not open.



Recover, yes or no.



Recovering (removing) the refrigerant from the air-conditioning system.



Partial recovery (removing some of the refrigerant from the air-conditioning system).



Full recovery (removing the entire refrigerant from the air-conditioning system).



The machine has stopped due to excessive high working pressure.



Refrigerant cylinder on machine is full, the machine will not allow you to recover any more refrigerant, change cylinder or transfer some refrigerant to another cylinder.



Pause, the function is paused.



Number of cycles, indicating the number of recovery pauses.



Evacuate, yes or no.



Evacuating, removing air and moisture from within the air-conditioning system.



Leak test, yes or no.



Air-conditioning system is leaking.



Oil charge, yes or no.



Oil vessel # 1, injecting oil in to air-conditioning system.

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Oil vessel # 2, injecting oil into air-conditioning system.



Dye injection vessel (optional), injecting dye in to air-conditioning system.



Select amount of refrigerant to be charged.



Charging the air-conditioning system with refrigerant.



Oil vessel # 3 (optional), injecting oil in to air-conditioning system.



Injecting oil in to air-conditioning system.



Program amount of refrigerant to be charged in to the air-conditioning system.

8 Printer Set Up

The printer is equipped with two keys and green led:

- >> Paper feed
- II on line / off line

The green led shows the state of the printer:

- Led constantly ON - Printer in line
- Led blinking - Printer not in line or no paper
- Led off - Press II. If the problem persists, contact authorized distributor or manufacturer.

Printer roll specifications,

Paper width: 57-58mm

Max paper thickness: 80 μ

How to open printer cover



How to load the paper



How to close the cover



9 Storage Cylinder Filling Procedure (Refrigerant Transfer)



The purpose of the Refrigerant Transfer mode is to transfer new refrigerant from a storage cylinder to the machine cylinder.

The machine refrigerant cylinder which is situated behind the cylinder cover is supplied empty of refrigerant.
Note: The cylinder is evacuated by the manufacturer.

There are various types of new refrigerant cylinders which are in the market, refillable and disposable cylinders.

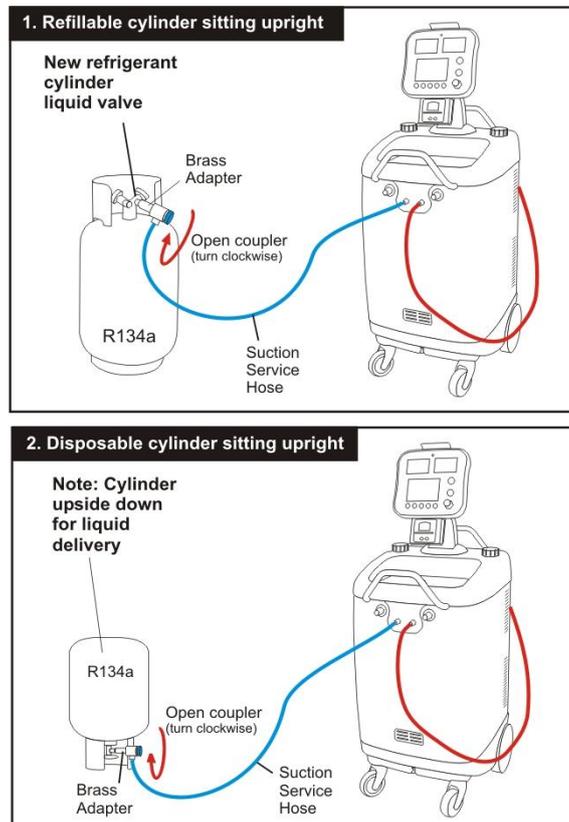
Whenever refrigerant is transferred from either type of cylinder, must always be transferred **liquid state** in to the machine.

Using a refillable cylinder to transfer refrigerant (see figure 1 for correct connection procedure)

Keep the cylinder sitting upright, connect the suction (blue) service hose to new refrigerant cylinder liquid valve by using the brass adapter provided, open liquid valve on storage cylinder (please note, all cylinder valves are marked with liquid and vapour on the valve hand wheel), open suction service hose quick coupling >>>

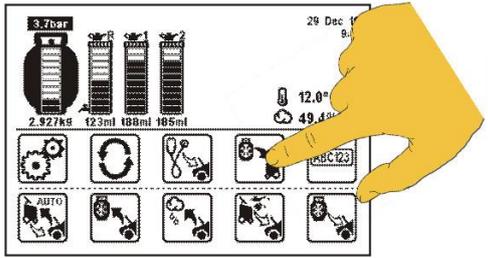
Using a disposable cylinder to transfer refrigerant (see figure 2 for correct connection procedure)

Connect the suction (blue) service hose to a new refrigerant cylinder valve by using the brass adapter provided. Turn cylinder upside down for liquid delivery, open the valve on the cylinder, open suction service hose quick coupling >>>

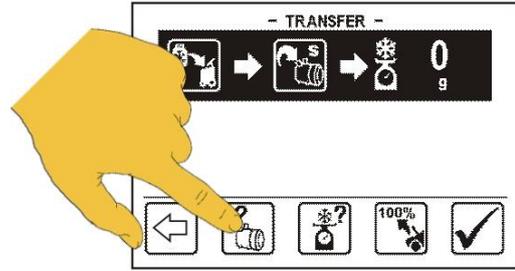


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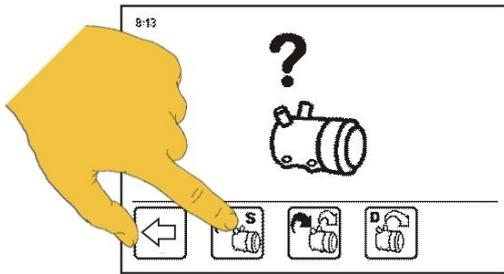
Step 1 - Touch refrigerant recovery icon



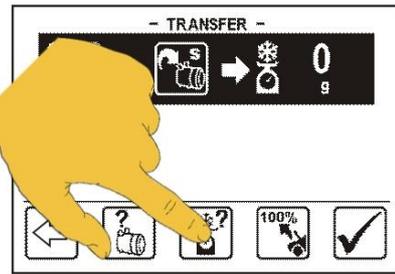
Step 2 - Touch compressor icon



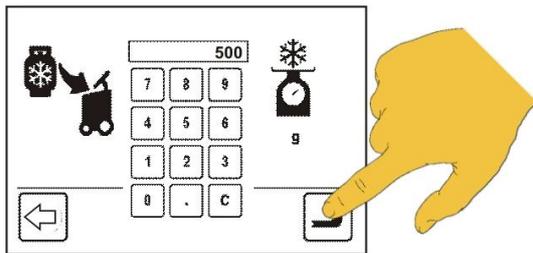
Step 3 - Touch suction (S) icon



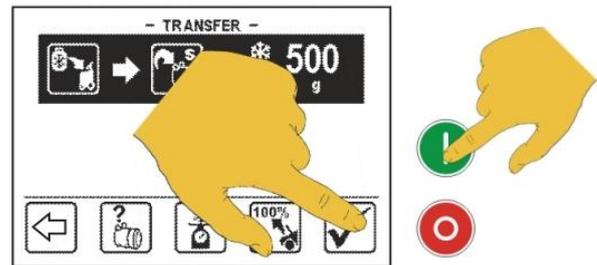
Step 4 - Touch weight icon



Step 5 - By using the keypad select the desired amount of refrigerant to be transferred into the machine cylinder and touch Enter.

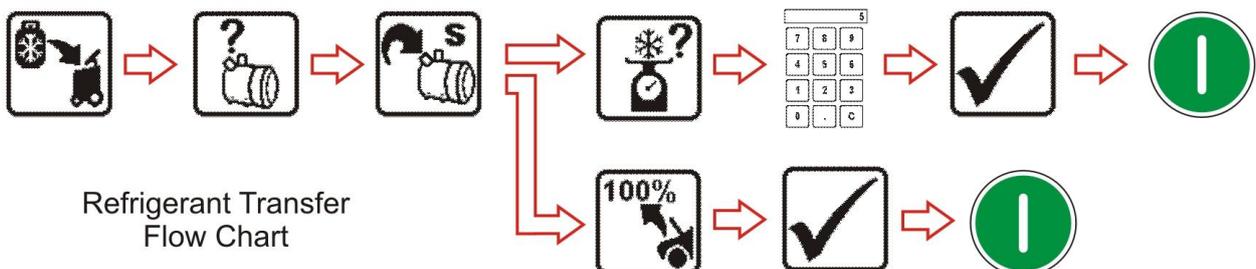
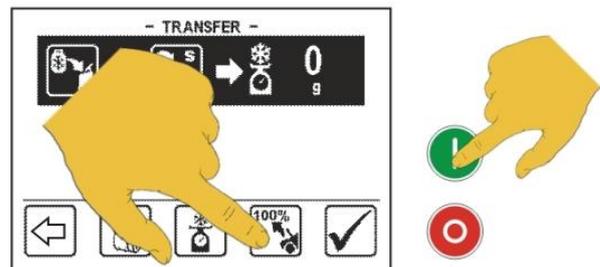


Step 6 - Touch confirm icon and press the Start button on the panel.



NOTE: If you wish to transfer the complete amount of refrigerant from the new refrigerant cylinder in to the machine cylinder go directly from Step 3 to Step 7.

Step 7 - Touch 100% icon, touch the confirm icon and press the Start button (See flow chart below).

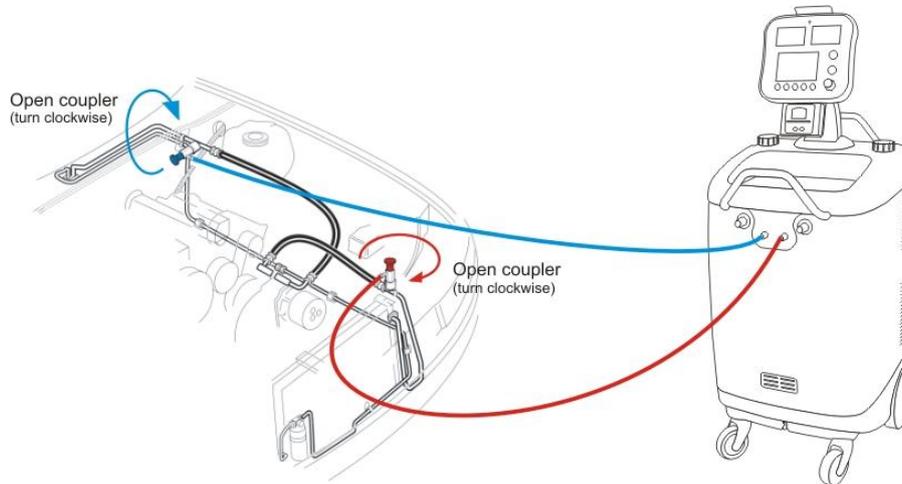


10 Connecting and testing the A/C system

Use the service hose quick 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.

If the system is equipped with a single service port, connect only the relative hose.

Note: Before connecting the quick couplers, clean the a/c ports of any foreign material (grease or dust).



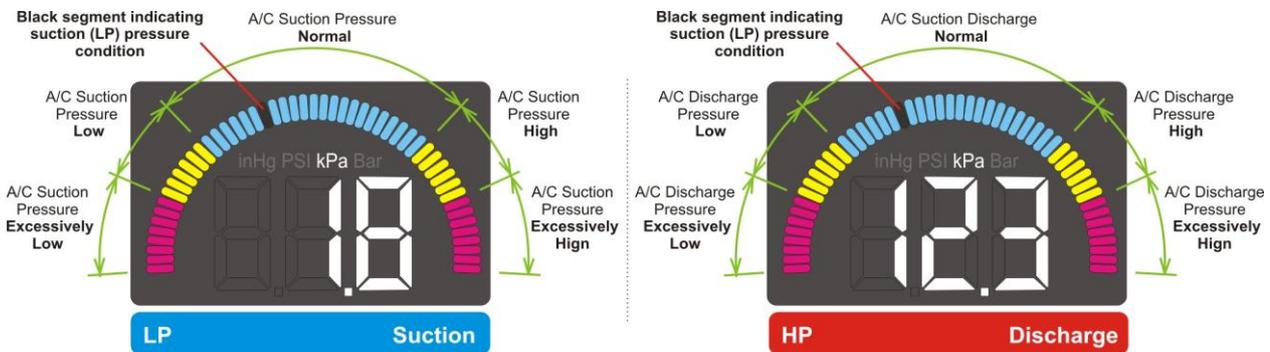
Winding the quick coupler hand wheel clockwise, will allow the refrigerant to flow through the hoses. Turning hand wheel in opposite direction, the flow will be closed. If there is any refrigerant in the air-conditioning system, the pressure displays will indicate a pressure.

The unit digital displays (suction & discharge) are important and important instruments.

The digital displays indicate the working pressure of the suction and the discharge side of the A/C system. The pressures are displayed in Metric or Imperial system depended of the user selection.

The operator should have basic understanding between gauge reading and air-conditioning system normal operating pressures, in order to correctly diagnose any possible system malfunction.

Above the digital displays is a bar graph which gives an estimation of good, fair or bad working pressures of the A/C system. The black segment on the bar graph is related with the working pressure readings. The bar graph colour coding is only indication.

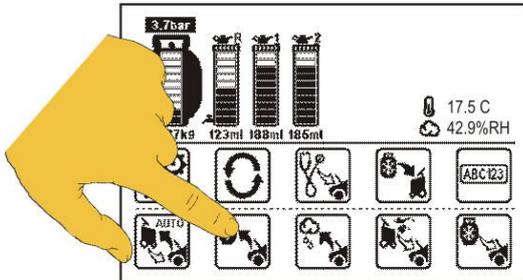


11 Recovery & Recycling Mode

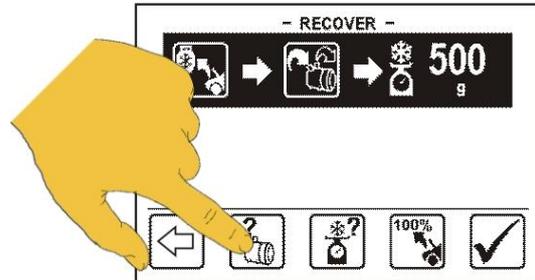


The purpose of the Recovery & Recycling mode is to recover refrigerant from the air conditioning system, which will condense, purify and store the liquid refrigerant in the storage cylinder ready for re-use.

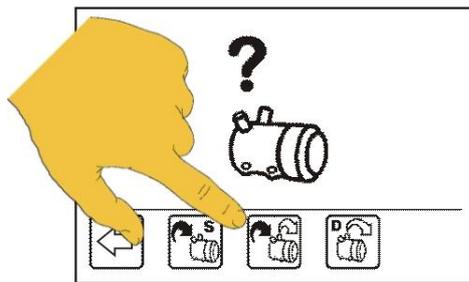
Step 1 - Touch the Recovery Icon



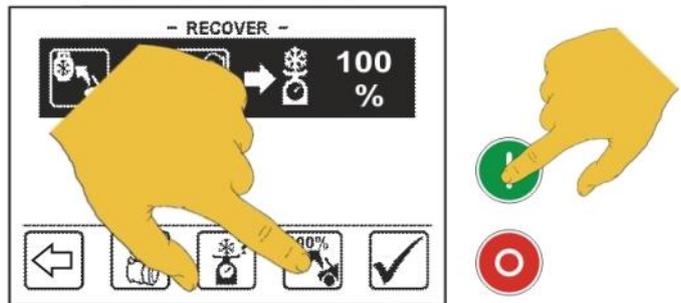
Step 2 - Touch compressor icon



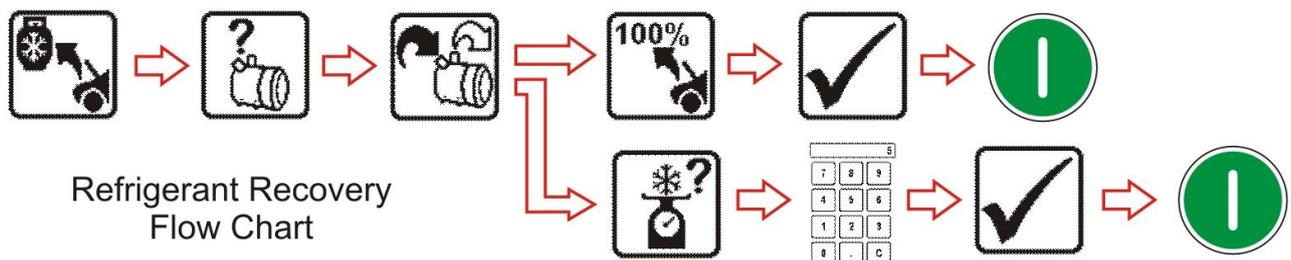
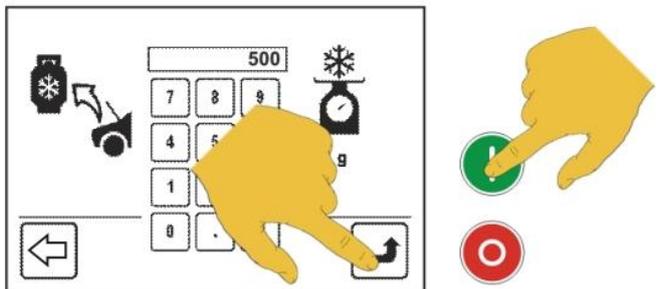
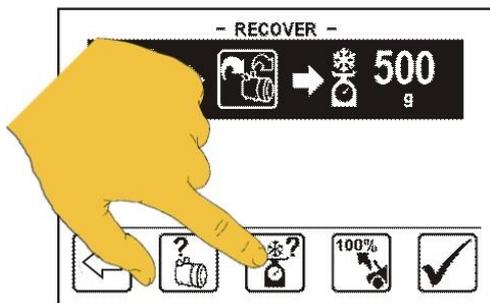
Step 3 - Select the desired A/C service port or ports. Recovery process is faster when both suction and discharge ports are selected.



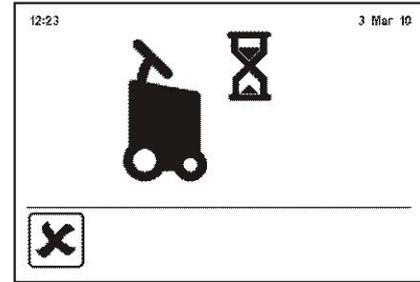
Step 4 - To recover the complete amount of refrigerant from the A/C system, touch 100% icon, touch the confirm icon and press the Start button to start the recovery process.



Note: To recovery desired quantity of refrigerant to A/C system touch weigh icon. By using the keypad select the desired amount of refrigerant, touch Enter icon, touch Confirm icon and press Start button to start the recovery process.



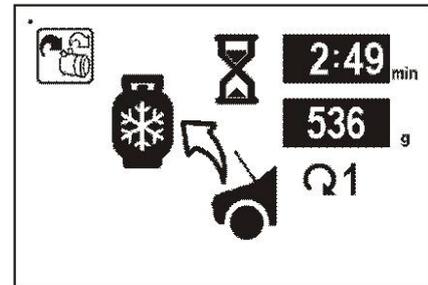
Before recovery process start, the machine will self purge and evacuate the service hoses (if required).



During the recovery process the machine will display the amount of refrigerant being recovered. this process can be paused by depressing Stop button and abort the function totally by depressing the Stop button again or restart the process by pressing the Start button.

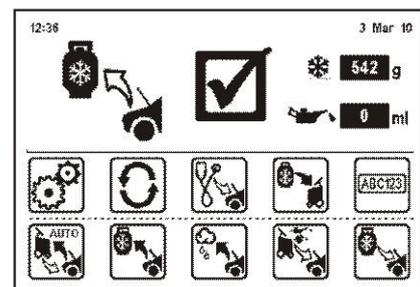


Once the machine has reached a vacuum of -0.25 kPa it will enter into recovery pause for duration of 3 minutes to allow for any remaining refrigerant in the A/C system (if any) to boil off. If the pressure in the A/C system increases above 0 kPa the machine will automatically return in to recovery re-run to the remove the rest of the refrigerant which has boiled off in the A/C system. If recovery re-run is initiated again the machine will pull down to a further vacuum of -0.30 kPa and then it will pause again for a further 3 minutes.



If after the 3min. pause there is no further pressure increase in the A/C system the machine will drain and measure the recovered oil (if any).

The display will show the total amount of refrigerant recovered and oil (if any). This will be displayed until the stop button is depressed which then machine will display main menu again ready to select another function if required.

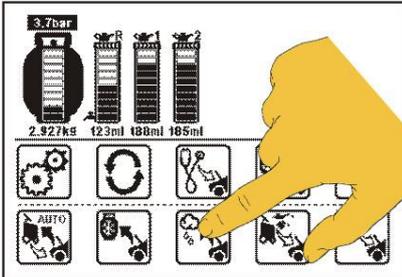


12 Evacuation Mode

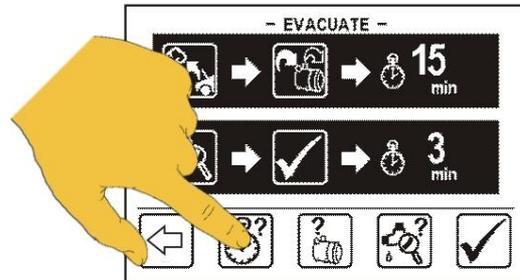


In the evacuation mode the air and moisture in the air conditioning system is removed and exhausted to the atmosphere. The evacuation mode runs for a predetermined time selected by the operator.

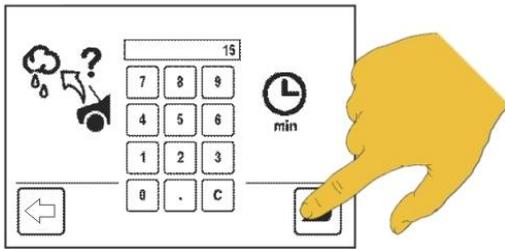
Step 1 - Touch the Evacuation Icon



Step 2 - Touch the Time Icon



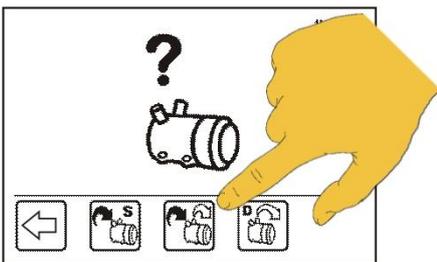
Step 3 - By using keypad select desired vacuum time and touch Enter icon to confirm.



Step 4 - Touch compressor icon



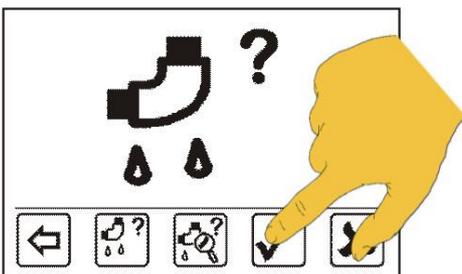
Step 5 Select the desired A/C service port or ports. Evacuation process is more efficient when both suction and discharge ports are selected.



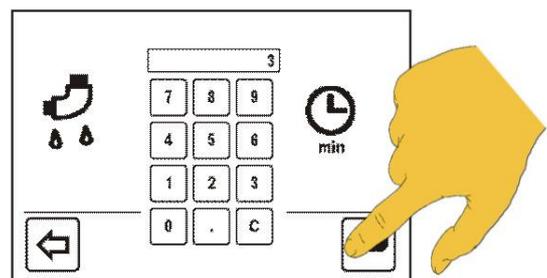
Step 6 - Touch Leak Test icon



Step 7 - Touch confirm icon if you want to select leak test, touch X icon to abort leak test under vacuum.

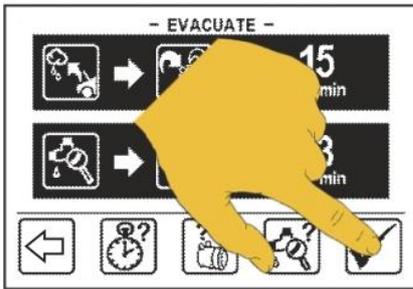


Step 8 - By using keypad select leak test time and touch Enter icon to confirm.

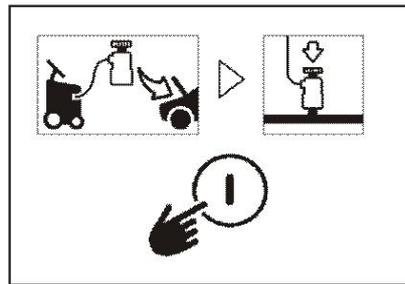


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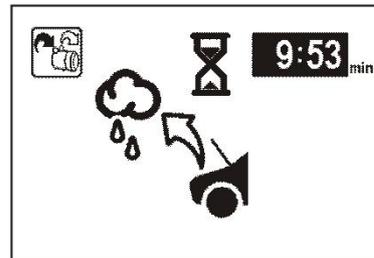
Step 9 - When the above selections have been made touch confirm icon.



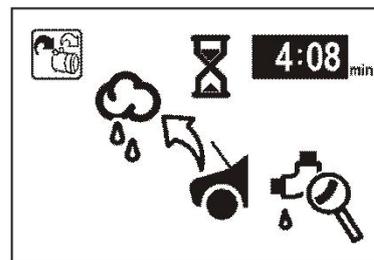
Step 10 - Press Start button to start the evacuation function.



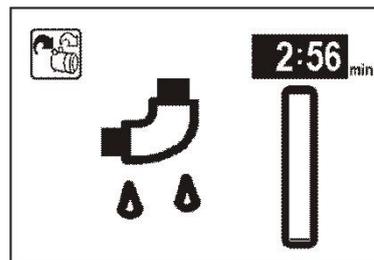
The evacuation function start running for the duration of the time which has been selected.



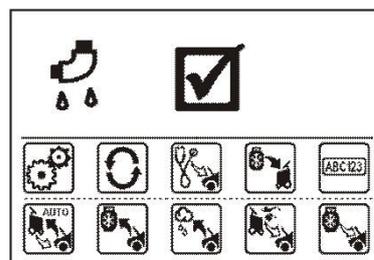
If a vacuum leak is detected during the evacuation process, the leak icon will be displayed.



Once the evacuation time has been completed the machine will perform vacuum test with duration which has been selected in Step 8.



Once the selected function (or functions) have been completed successfully, this screen will be displayed.

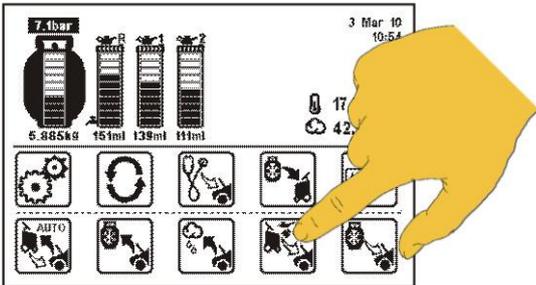


13 Oil & UV Dye Injection Mode

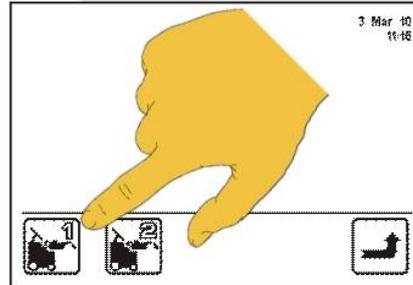


The purpose of this function is to batch a user-defined quantity of refrigerant oil or UV dye from the oil vessels in to the vehicle air-conditioning system.

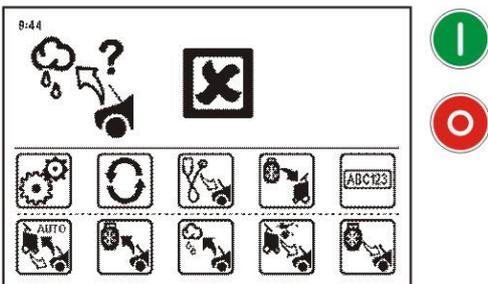
Step 1 - Touch the oil injection icon



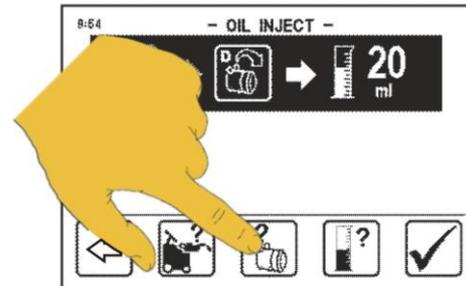
Step 2 - Touch the appropriate oil vessel



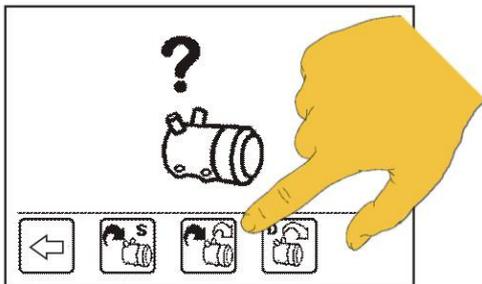
NOTE: If there is no vacuum in the A/C system, this icon will be displayed.



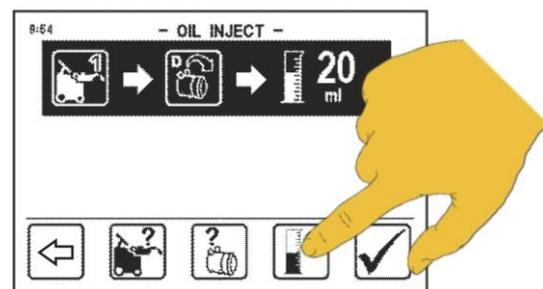
Step 3 - Touch the compressor icon



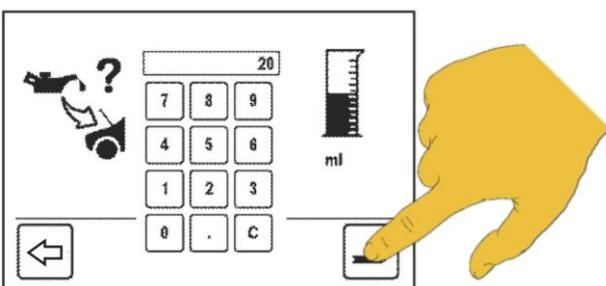
Step 4 - Select the desired A/C service port for oil injection



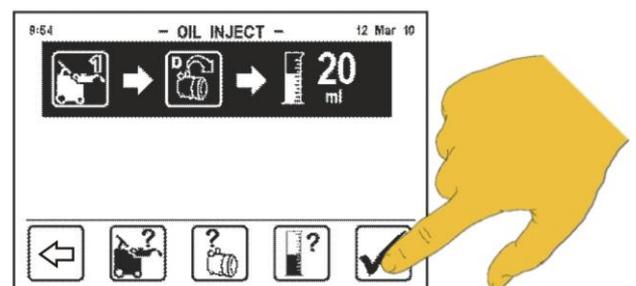
Step 5 - Touch oil volume icon]



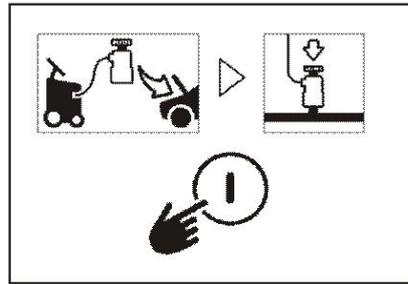
Step 6 - By using the keypad select oil volume (ml) and touch Enter icon to confirm.



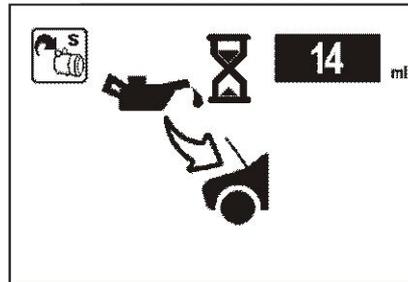
Step 7 - When the desired selection have been made touch the confirm icon.



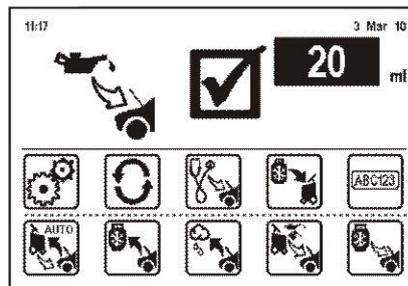
Step 8 - Press Start button to start the oil injection function.



Oil injection in progress display.



Oil injection is completed display.



14 Refrigerant Charge Mode

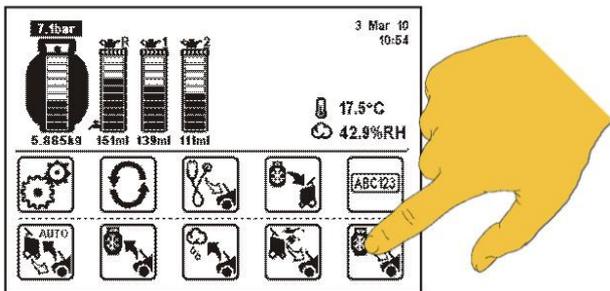


The purpose of the refrigerant charge mode is to batch a user-defined weight amount of refrigerant into the air-conditioning system.

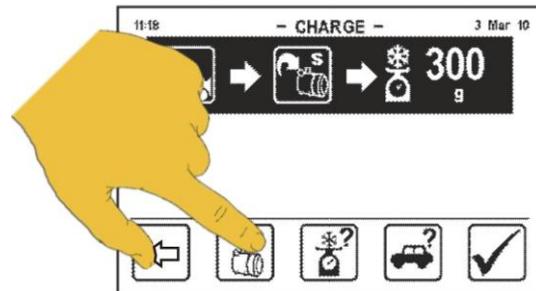
⚠ IMPORTANT:

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

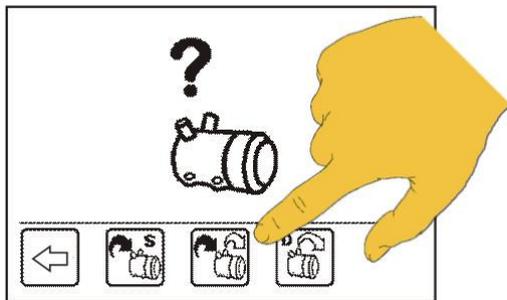
Step 1 - Touch the refrigerant charge icon



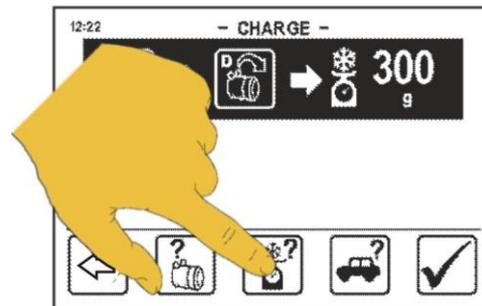
Step 2 - Touch compressor icon



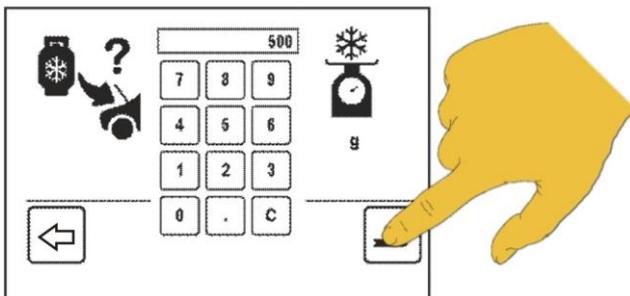
Step 3 - Select the desired A/C service port for refrigerant charge



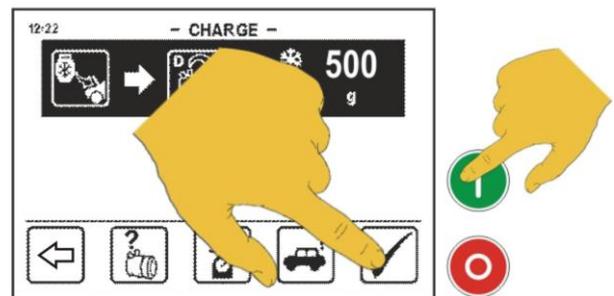
Step 4 - Touch the weight icon



Step 5 - By using the keypad select the desired amount of refrigerant and touch Enter icon.

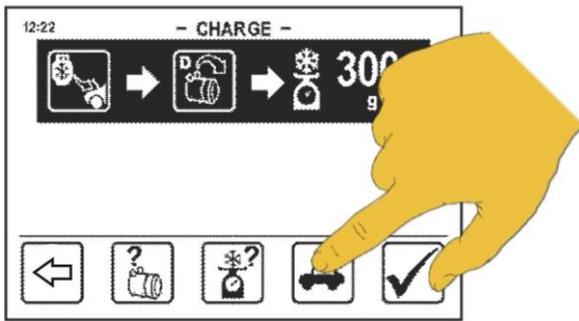


Step 6 - Touch Confirm icon and press the start button to start charge function

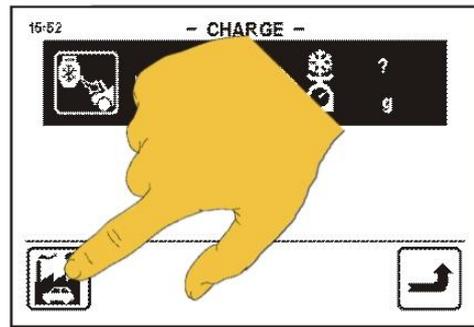


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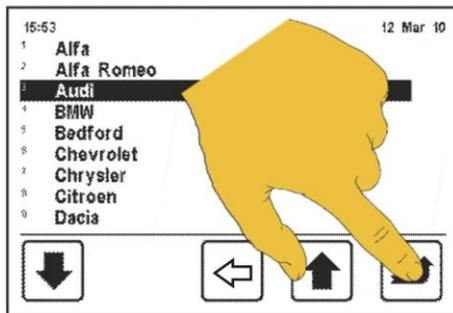
Step 4.1 - Amount of refrigerant can be selected by using the vehicle A/C database. Touch Car icon.



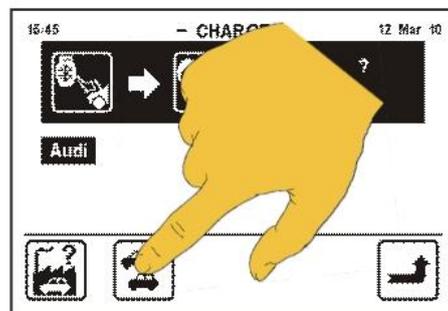
Step 4.2 - Touch vehicle manufacturer icon



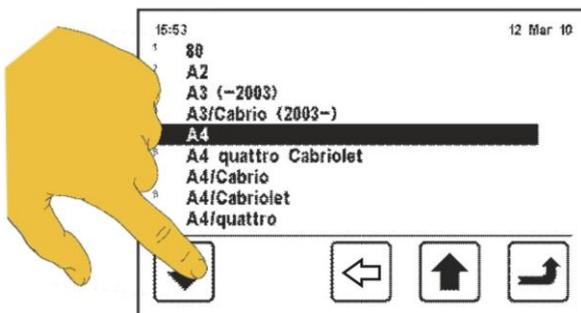
Step 4.3 - By using up and down arrow icon select vehicle manufacturer and touch enter icon.



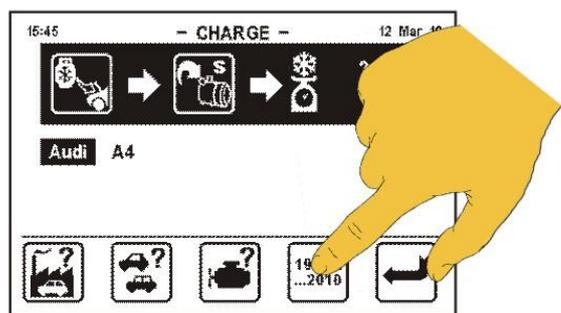
Step 4.4 - Touch vehicle model icon



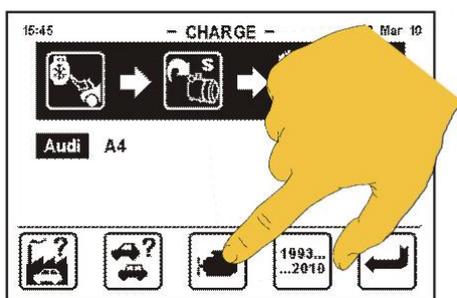
Step 4.5 - By using up and down arrow icon select vehicle model and touch enter icon.



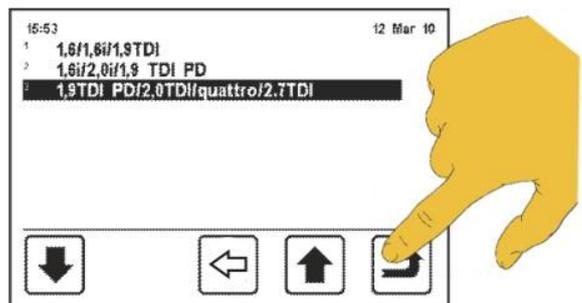
Step 4.6 - Touch vehicle year icon and by using keypad select the year of production.



Step 4.7 - Touch vehicle engine icon.

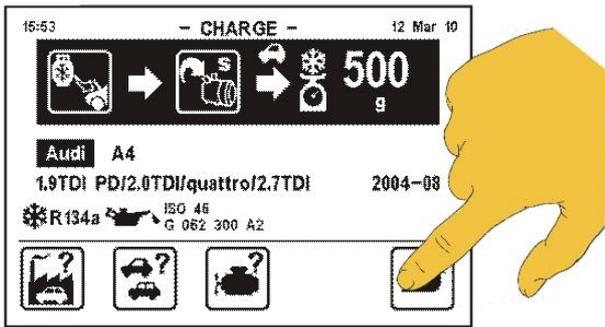


Step 4.8 - By using up and down arrow icon select vehicle engine size and touch enter icon.

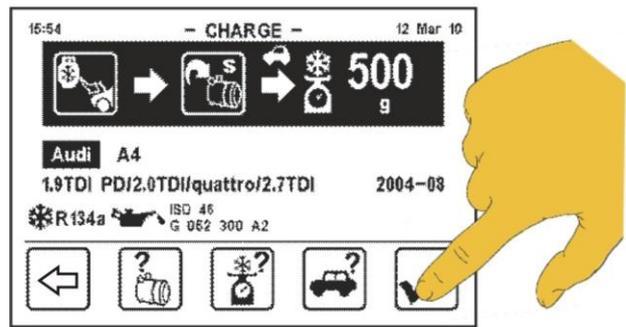


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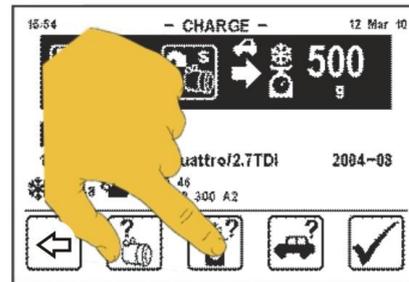
Step 4.9 - Touch enter icon



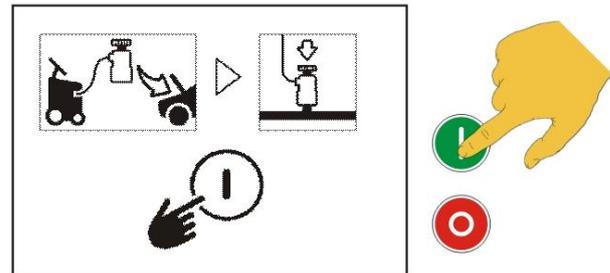
Step 4.10 - Touch confirm icon



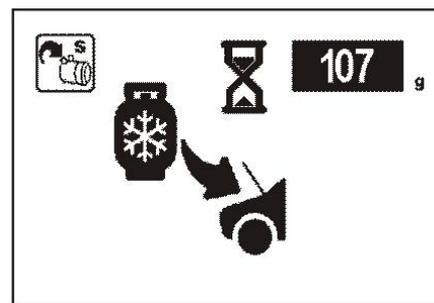
Note: After database selection, if a different amount of refrigerant is required touch the weight icon in order to change the value. Follow step 4 & 5.



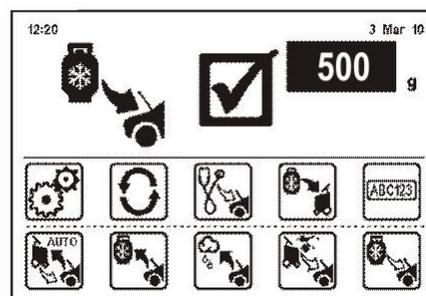
Press Start button to commence charge function.



Refrigerant charge in progress display.



Refrigerant charge is completed display.



15 Auto Mode Function

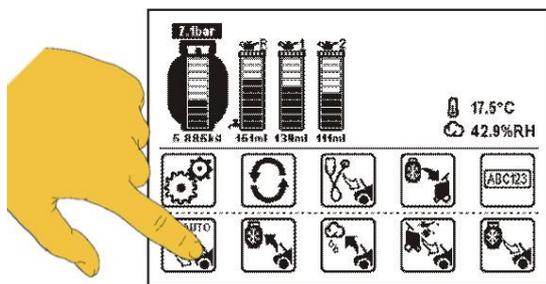


The Coolius 2700 BT incorporates a Fully Auto function, where the operator simply sets the parameters and the machine will perform and complete all operations automatically without any further intervention from the operator.

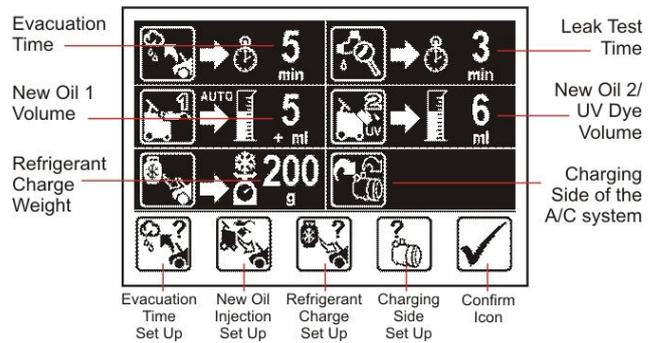
Each operation is recorded and printed at the completion of the full cycle. If any fault is detected during the fully auto cycle the Coolius 2700 BT will warn the operator.

To set the fully auto mode follow Step 1 to 19:

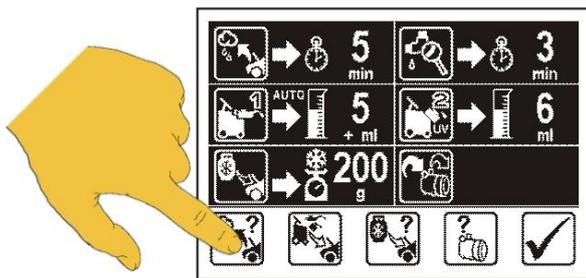
Step 1 - Touch the AUTO icon



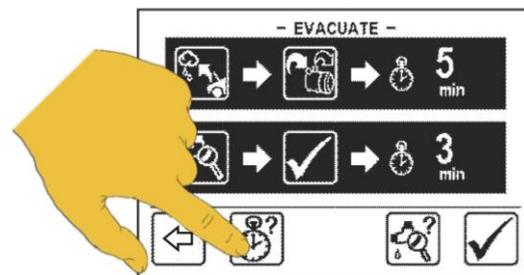
Step 2 - The display shows last selection made. If agree with the current settings, touch confirm icon and then press start button.



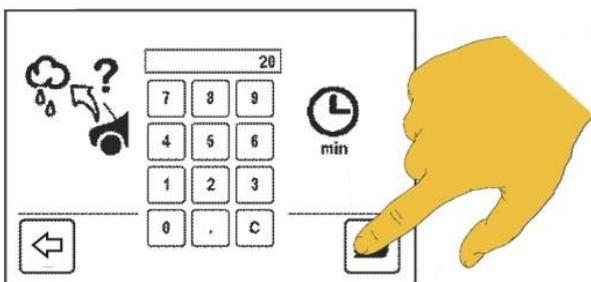
Step 3 - All settings can be changed in few steps. To change evacuation time touch the vacuum icon.



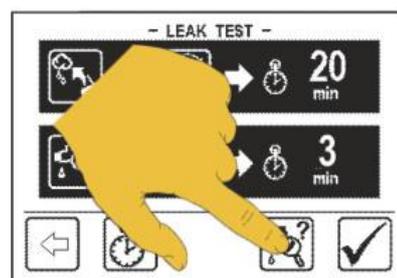
Step 4 - The display shows last selection. If agree, press confirm icon. To change the evacuation time, touch time icon.



Step 5 - With the keypad select new evacuation time and touch enter icon.

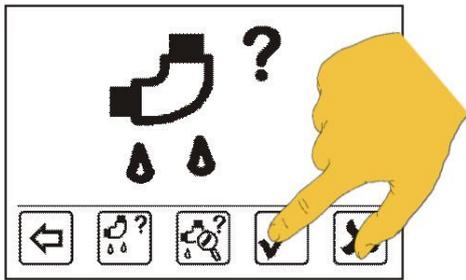


Step 6 - To select new leak test time, touch leak test icon.

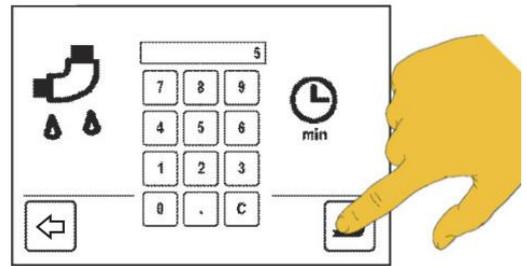


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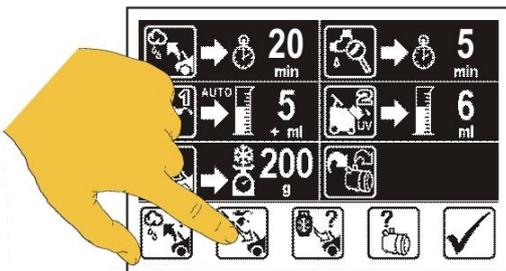
Step 7 - Touch X icon to abort leak test, or touch leak test icon to set up new leak test time.



Step 8 - With the keypad select new leak test time and touch enter icon.



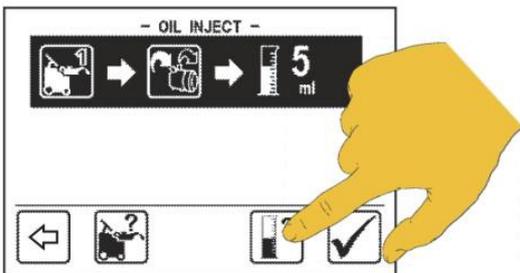
Step 9 - To change the oil volume settings touch the oil set up icon.



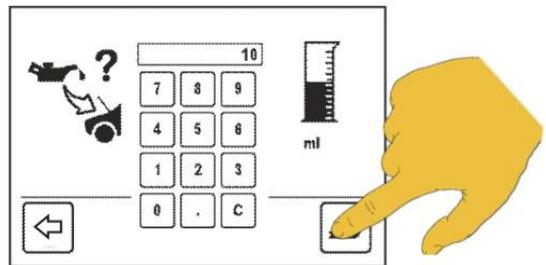
Step 10 - Touch the oil icon.



Step 11 - Touch the oil volume icon.



Step 12 - By using the keypad select new volume and touch enter icon.

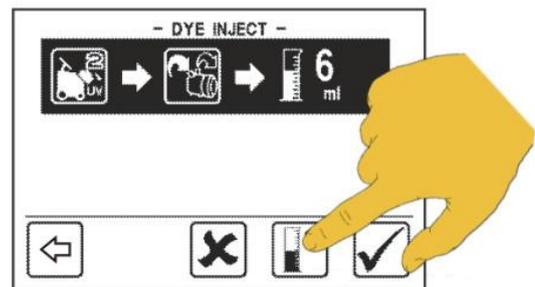


Step 13 - Touch the UV Dye icon.



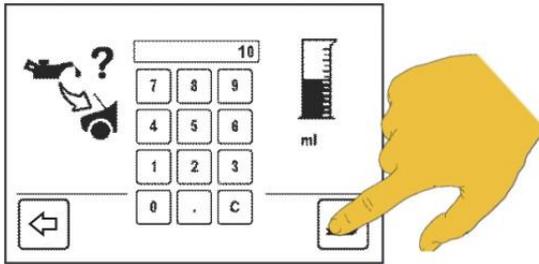
Step 14 - Touch the UV Dye volume icon.

Note: Touch X icon if you like to turn off this function.

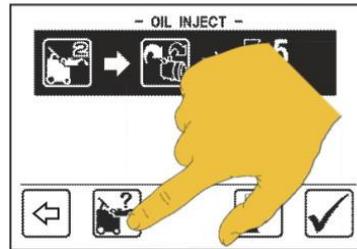


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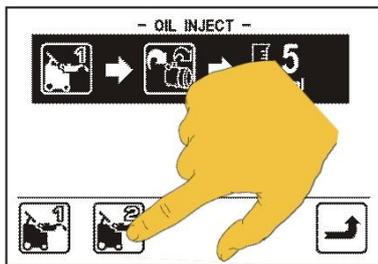
Step 15 - By using the keypad select new volume of UV Dye and touch enter icon.



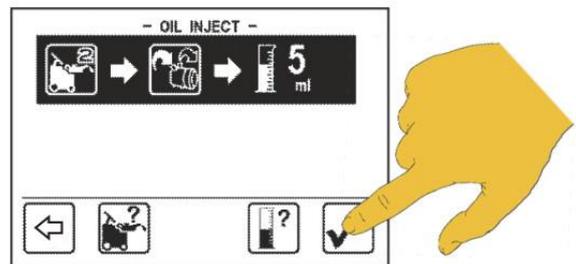
Step 11.1 - Only if you want to change the oil vessels touch the oil icon after the step 11.



Step 11.2 - Touch oil vessel 2.



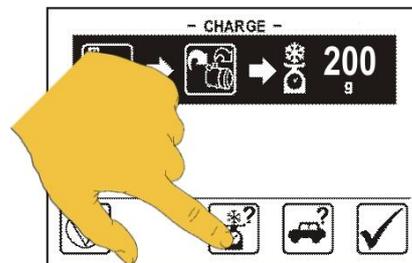
Step 11.3 - Confirm oil vessel selection.



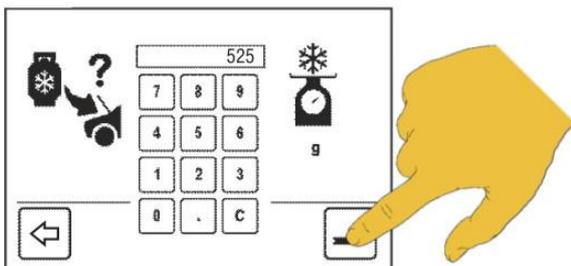
Step 16 - Touch the refrigerant charging icon.



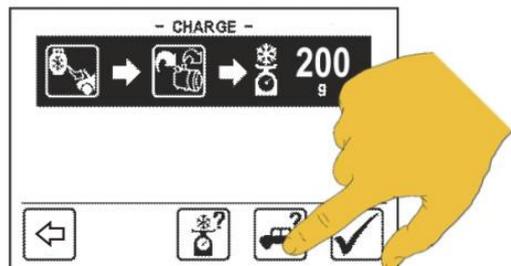
Step 17 - To set the refrigerant weight touch the weight icon, or refrigerant charge weight can be selected by using database (touch car icon).



Step 18 - By using keypad select the amount of refrigerant to be charged.



Step 17.a - The vehicle a/c specific weight can be selected by using database (touch car icon). See charge function 14 / Step 4.1.

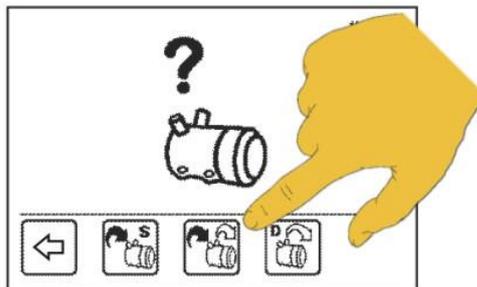


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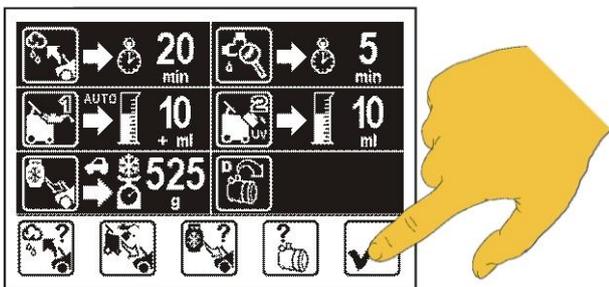
Step 19 - Touch the compressor icon to select the A/C charging side.



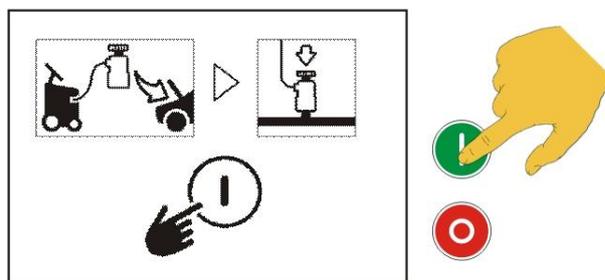
Step 20 - Select the desired A/C charging side port for refrigerant charge.



Step 21 - Touch the confirm icon



Step 22 - Press the start button.



Once the selected functions are completed the process completed window will be displayed.

16 A/C Flushing Mode (OPTIONAL)

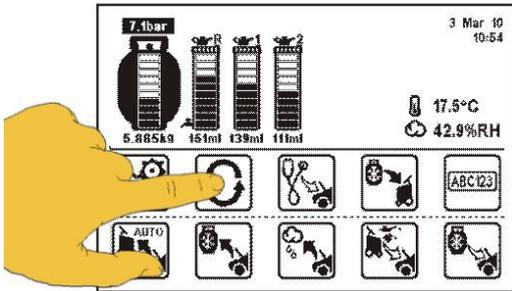


The purpose of the A/C flushing mode is to purge the A/C system of contamination.

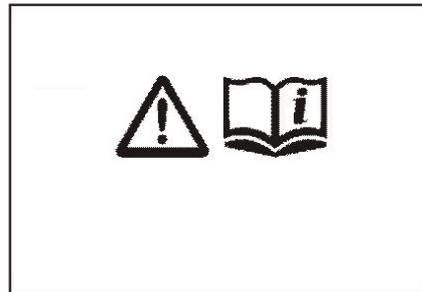
⚠ IMPORTANT:

The flushing procedure should only be performed when the compressor has been removed or disconnected from the A/C system including fix orifice tube or expansion valve. Special external filtration kit **MUST** be fitted on discharge (red) service hose port.

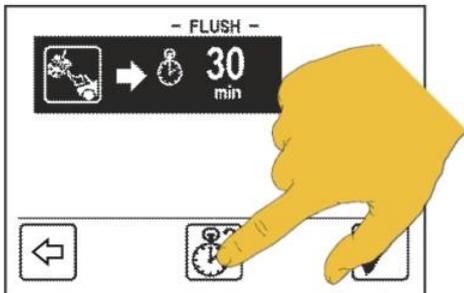
Step 1 - To start the flushing mode touch the flush icon



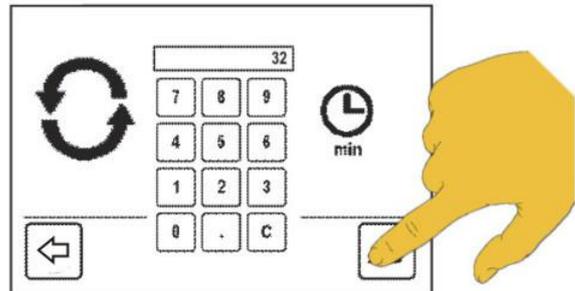
Step 2 – To activate Flushing function contact your distributor.



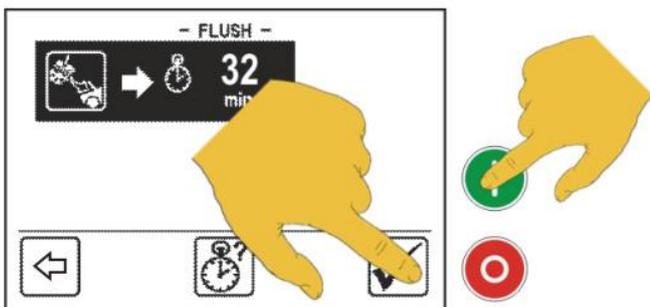
Step 3 – When function activated, touch the time icon to select the flushing time (minimum time is 30 minutes).



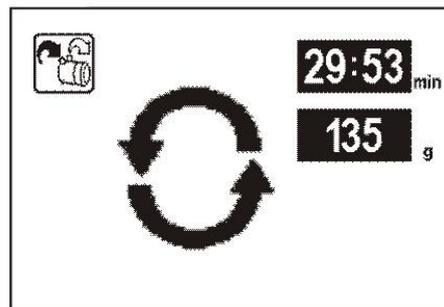
Step 4 - By using the keypad, select flushing time and touch Enter icon to confirm.



Step 5 - Touch the confirm icon and press the Start button to start the process.



The selected function will now be performed automatically. The refrigerant which is used to flush the A/C system is purified and return at the storage cylinder to be used again.

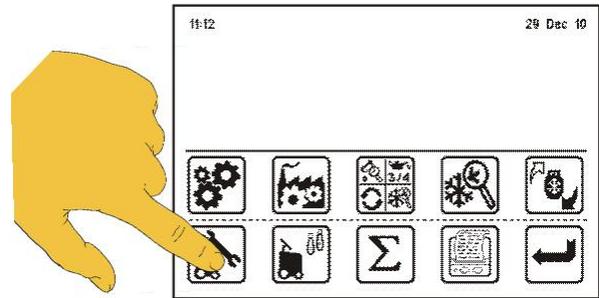
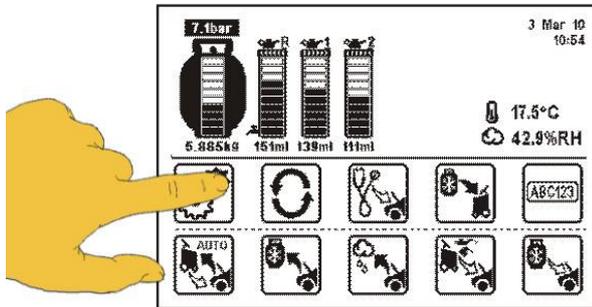


17 Settings & Optional Functions

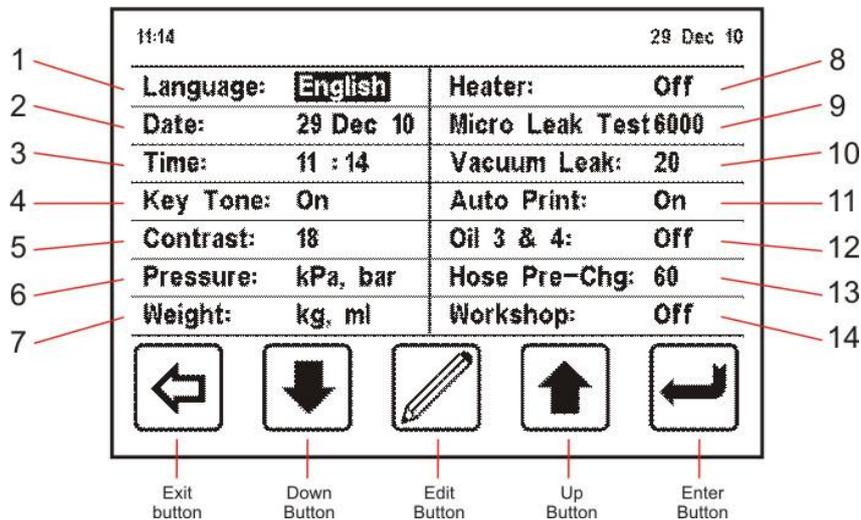
17.1 Main Unit Set Up

Step 1 - To enter into the Set Up Mode, touch the main Set Up icon.

Step 2 - Touch the unit Set Up icon.



The display will show the unit Set Up main screen.



4. With Up and Down icon select the desired function followed by touching the Edit button to make the desired changes. Once the selection has been made touch the Enter button to lock in the change.

1. Language Selection

2. Date Setting

3. Time Setting

4. **Key Tone** - Switching On and OFF the key tone

5. **Contrast** - Adjusting screen clarity

6. **Pressure** - Selecting Metric or Imperial system (kPa or PSI)

7. **Weight** - Selecting Metric or Imperial system (kg or lb)

8. **Heater** - Switching ON and OFF the automatic heating of the storage cylinder

9. **Micro Vacuum Leak Test (OPTIONAL)** - Switching ON and OFF the leak warning under vacuum

10. **Vacuum Leak Test** – Adjusting sensitivity

11. **Auto Print** - Switching the printer ON and OFF

12. **Oil 3 & 4 (OPTIONAL)** - Activating oil vessel 3 & 4

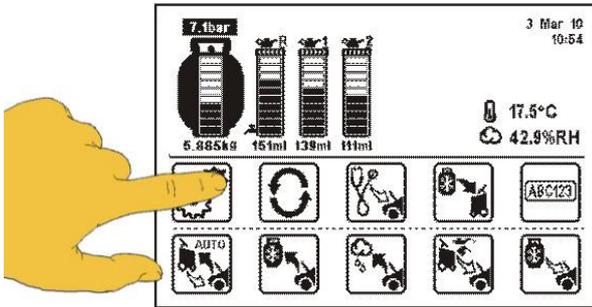
13. **Hose Pre-Charge** - Setting the service hose precharge value

14. **Workshop** – Workshop details on printing report ON or OFF.

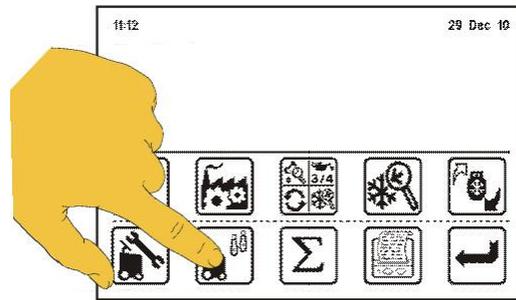
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17.2 Wireless Temperature Sensors Set Up

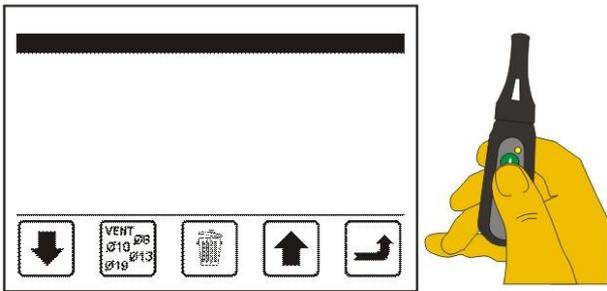
Step 1 - To enter into the Set Up Mode, touch the main Set Up icon.



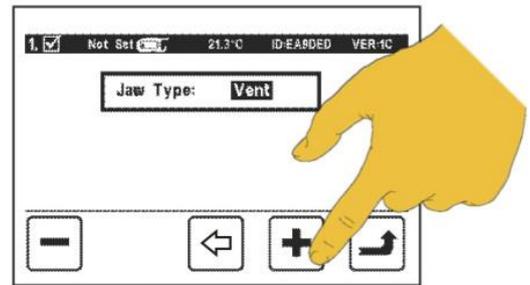
Step 2 - Touch the unit Set Up icon.



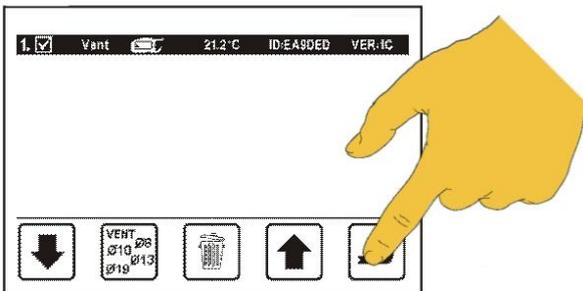
Step 3 - Press and hold the wireless temp sensor button until the sensor data appears on the display.



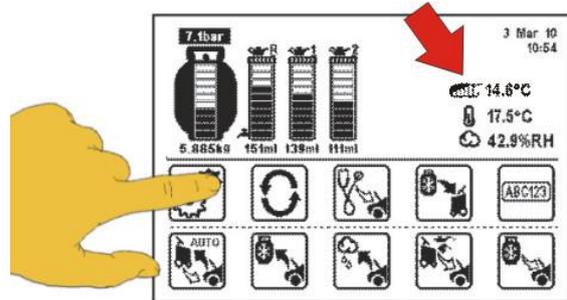
Step 4 - By using the plus or minus icon selects the appropriate sensor and touch enter icon.



Step 4 - The appropriate sensor will now be displayed, press Enter icon to confirm.



Note: Perform the same steps for other sensors settings.



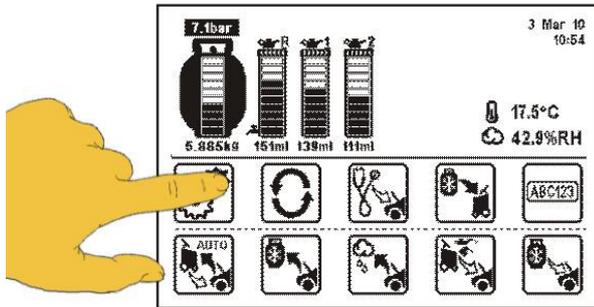
State	Colours	Description
Normal	[Green]	Normal indication: bound to ARP and battery ok.
Not Bound	[Red]	Not bound to any ARP.
No signal	[Red, Green]	Bound but not receiving signal from ARP.
Battery Low	[Red]	Battery low.
Charging	[Red, Green]	Battery is charging.
Charged	[Green]	Battery is fully charged (when charger plugged in).
Charge Fault	[Red]	Charger voltage too high (> 6.0V).
Button pressed	[Green]	Button is pressed. LED on (not flashing).
Ready to Power off	[Red]	Button held for 2s. Ready to power off.
Force Unbind	[Red]	Button held for 15s. Ready to unbind sensor from ARP.
Internal Fault	[Red]	# flashes indicates error (see table below).

WOW! Coolius 2700BT

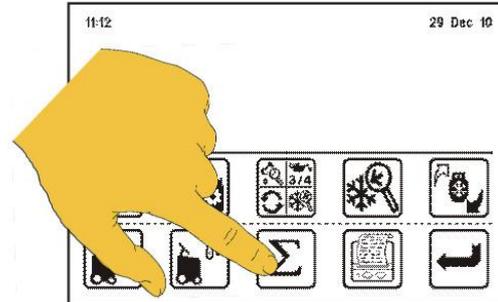
The ARP Wireless Temp Sensor has a single bi-colour LED. The Table above outlines the meaning of each indication sequence. If the wireless temp sensor is not communicating with the ARP for a period of 20 minutes it will automatically switch it self off to preserve the battery energy.

17.3 Machine Operation History

Step 1 - To enter into the Set Up Mode, touch the main Set Up icon.



Step 2 - Touch the unit wireless temp sensors icon.



The display will show the cycle operation history. If you would like to clear previous history touch ALL OFF icon and all cycles will be set back to 0.

11:15		kø/l since		29 Dec 10
	# Cycles:	Reset:	Manuf:	
CHARGE	17	1.39	1.39	
TRANSFER	0	0.00	0.00	
RECOVER	23	0.78	0.78	
OIL INJECT	11	0.08	0.08	
DYE INJECT	1	0.00	0.00	
EVACUATE	78			
FLUSH	0	SERVICE 100		90.97
LEAK TEST	24	SERVICE 300		290.95
RECYCLE	0	TOTAL HOURS		9.04
AUTO	3			

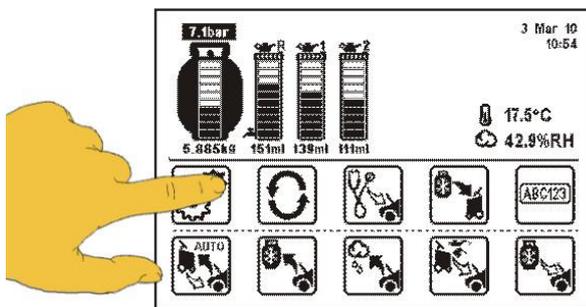
17.4 Refrigerant Recycling



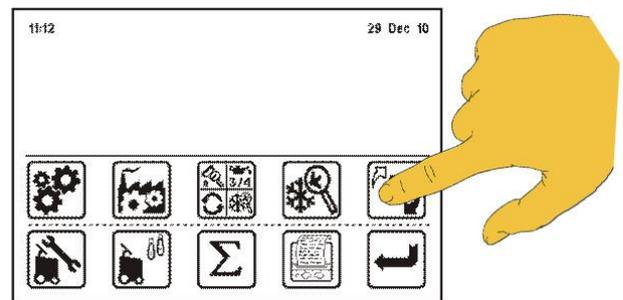
The purpose of the Refrigerant Recycling mode is to purify the refrigerant from other recovery cylinder which have not been attached to this machine.

Remove the cylinder cover. Turn off the cylinder valves and cylinder hose ball valves (red and blue). Carefully disconnect the hoses from cylinder (wear protective glasses and gloves). Take off the original machine storage cylinder and place recovery cylinder which needs the refrigerant to be recycled. Connect the hoses to the recovery cylinder (making sure that blue hose is connected on vapour and red on liquid cylinder valves), open ball valves and cylinder valves.

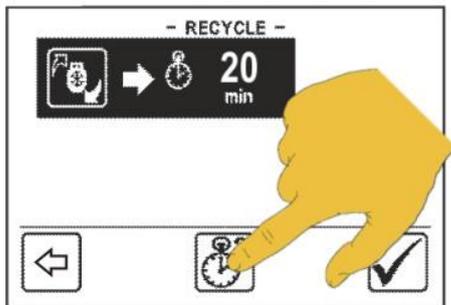
Step 1 - To enter into the Set Up Mode, touch the main Set Up icon.



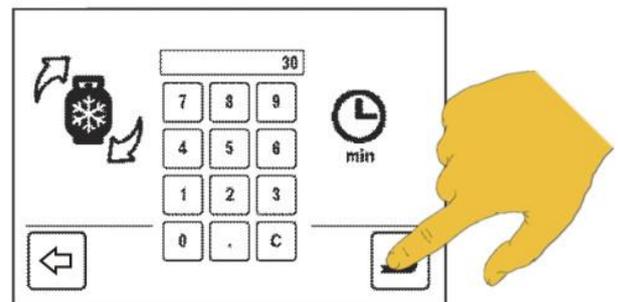
Step 2 – Touch refrigerant recycling icon to select the function.



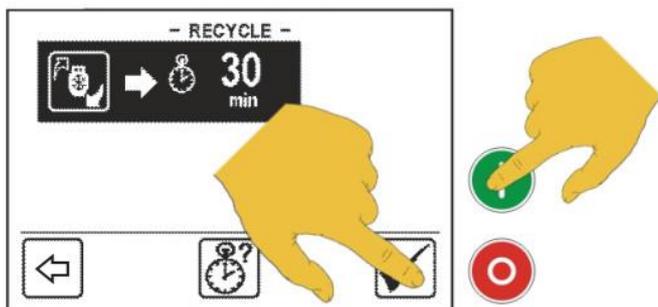
Step 3 - Touch the time icon to select the flushing time.



Step 4 - By using the keypad, select recycling time and touch Enter icon to confirm.



Step 5 - Touch the confirm icon and press the Start button to start the process.



The selected function will now be performed automatically. After the completion of this function remove the recovery cylinder and refit the standard machine storage cylinder.



17.5 Declaration of Conformity



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Declaration of Conformity

Manufacturer's name:
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Declares that the product: Automotive Air-Conditioning Service Equipment
Typ: Coolius 2700 BT
Art.No: W050022700

has been manufactured to the technical specifications of the product and conforms in all respects to the relevant standards and regulations in force and especially to:

European Norm:

- IEC 34-11 (EN60034) General standards on single phase electric, rotative machines
- IEC 335-1 Safety on electrical devices in domestic application
- EN 61010-1:2001 with cross references: EN 60227, EN 60245, EN 60309:2003, EN 60799, EN 60804, EN 60825-1
- EN 55014-1, EN ISO 12100-1, EN ISO 12100-2
- EN ISO 12100-1:2003, EN ISO 12100-2:2003

Richtlinien/Directives:

- 2006/42/EEC Machines directive
- 2004/108/EEC Directive on electromagnetic compatibility
- 2006/95/EEC Directive on low voltage
- 98/37/EEC Machine directive

Künzelsau, den 15.02.2011

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