COCLIUS

A50A/C Service-Unit for refrigerant R134a

Operating Manual



ENG Original Operating Manual

Doc.No.: 2226-46-47_Rev.04.05

Introduction

Dear Customer,

Thank you for purchasing this product.

To ensure this condition and ensure safe operation, you must observe these operating instructions!

Read the entire operating instructions before using the machine for the first time. Observe all operating instructions and safety instructions!

All company names and product names are trademarks of their respective owners. All rights reserved. If you have any questions, please contact the respective service partner of your country *See chapter 9 Contact and support p. 43*

Europa

This machine meets the requirements of valid EU directives. 2014/68/EU (PED) 2006/42/EU 2014/30/EU 2014/35/EU



Australia & New Zealand

RCM compliance



The Declaration of Conformity can be obtained from: www.coolius-ac.com

Reprinting, even in extract, is allowed only after obtaining approval.

We reserve the right to make changes to the product at any time, if we consider them to be in the interest of quality improvement, without prior notice or notification. Figures may be examples, which may differ in appearance from the goods delivered. We also reserve the right to errors, and cannot be held responsible for typographical mistakes. Our general terms and conditions apply.

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1 Important notes on the operating instructions

COOLIUS A50 (the machine) has been designed and built to ensure long lasting, high-level operating reliability with maximum safety for user.



This operating manual is part of the machine.

Read carefully before use.

- The user is responsible for the proper use of the machine in accordance with the instructions found in this operating manual.
- The manufacturer cannot be held responsible for damage to persons, animals and/or objects due to improper use different to that illustrated in this instruction manual.
- The manufacturer reserves the right to make technical and aesthetic alterations to the machine without prior notification.

The purpose of this operating manual is:

- To supply the user with all the information needed to use the unit starting from purchase on through to the disposal of this same machine.
- To ensure maximum support for the personnel assigned to the use and the maintenance of the machine

For any special information or requests for technical assistance or spare parts, please contact the Service partner of your country.

Disclaimer



This manual was created with great care. However, if you notice any omissions or inaccuracies, please inform the service partner of your country in writing.

The manufacturer shall not be liable for technical or typographical errors and reserves the right at any time without prior notice to the product and the instruction manuals make.

The illustrations in this document may differ from the machine actually supplied with this manual.

1.1 Important information about refrigerant



NOTE: All the information here is current as of the date of printing of this manual.



WARNING! The machine is designed exclusively for R134a. The design meets all the guidelines of the European standard EN 378:2016

Safety Classification and information about refrigerant:

The refrigerant is classified in Table E.1 (Refrigerants designation) of Annex E (Normative) of the European standard EN 378-1:2016 (E) EN 378-1:2016 (E)

ETHANE series: 134a (1,1,1,2-tetrafluoroethane)

Safety group: A1 PED fluid group: 2

The refrigerant can assume different names depending on the manufacturer!



For more information relating to the refrigerant refer to the SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 (MSDS).

The SAFETY DATA SHEET (MSDS) must be delivered to the operator (s) employee (s) using the machine!

1.2 Symbols



This safety alert symbol indicate that this message involves personal safety. Works danger, warning and caution indicate degree of hazard. Death, personal injury and/or property damage may occur unless instructions are followed carefully.



Do not operate this machine if you have not read and understood the following safety items. Read this entire Operating Manual.

1.3 Intended use

The machine is designed solely for use in automobile air-conditioning system maintenance.



CAUTION! Risk of injury due to improper use.

This machine is intended for use by Qualified personnel only. Such users must have a knowledge of the basics of refrigeration, refrigeration system, refrigerants and the potential hazards that unit under high pressure can cause.

2 Important safety instructions

The user should follow the "general safety rules", and use the machine according to the "intended use" and the instructions of this operating manual.

Therefore, the user is not exposed to any risk if the general safety rules reported below are followed with proper use and maintenance of the machine.

2.1 Glossary of terms

- Machine: The machine relative to this operating manual.
- Refrigerant: Fluid reported on the identification label.
- A/C system: Air-conditioning system in the vehicle.
- External bottle: New Refrigerant used to fill the internal vessel.
- Internal vessel: Refrigerant storage tank.
- Process: Execution of an individual function (Ex. Recovery).
- · Cycle: Execution of more processes.
- **Recovery**: The recovery of refrigerant in any condition and its storage in a container outside the A/C system, without necessarily undergoing analysis or treatment of any kind.
- Recycling: A reduction of the contaminating substances in used refrigerants through oil separation, the
 recovery of incondensable and their single or multiple passages through elements that enable a reduction in humidity, acidity and gasses.
- Disposal: Recovery of refrigerant to store it for subsequent distribution or disposal.
- **Vacuum:** Phase in which air and moisture are evacuated from an A/C system solely by means of a vacuum pump.
- **Oil charge:** Introduction of oil inside an A/C system for the purpose of maintaining the amount of oil specified by the manufacturer.
- **UV dry charge:** Introduction of UV dye inside an A/C system in order to detect possible leaks by means of a UV lamp.
- **Refrigerant charge:** Phase during which refrigerant is introduced into an A/C system in the amount specified by the manufacturer.
- **Flushing:** at the purpose to clean the A/C system or components, liquid refrigerant is flushed through it, in order to do so a special device and adapters are needed.
- Nitrogen pressure test: Introduction of nitrogen inside an A/C system in order to detect possible leaks

2.2 General safety rules

- This machine is intended for use by QUALIFIED PERSONNEL only. Such users must have a knowledge of the basics of refrigeration, refrigeration system, refrigerants and the potential hazards that unit under high pressure can cause.
- · It's essential to supervise the machine at all times.
- DO NOT modify the safety devices
- DO NOT use external tanks or other storage tanks that have not been type-approved or that lack safety valves.
- DO NOT use the machine near open flames and hot surfaces. At high temperatures, the refrigerant decomposes, releasing toxic and chemical substances that are hazardous for users and the environment.
- It's essential to use only the refrigerant indicated on the identification label. Mixtures with other types of refrigerant will seriously damage the cooling and refrigeration system, as well as the machine.

- Gloves and Goggles should be worn contact with the refrigerant can cause blindness and other physical injury to the user.
- Avoid inhalation of vapours from the refrigerants and contact of the refrigerant with skin.
- Do not switch on the machine unless the machine is going to be used immediately. Cut off the electrical power supply prior to long intervals in which the machine will not be used.
- **Attention:** Ensure that all valves are closed before making connections between the machine and an A/C system or an external tank.
- **Attention:** Ensure that the process has been completed and that all valves are closed before disconnecting the machine.
- Attention: All of the flexible hoses may contain refrigerant under high pressure. Exercise extreme caution when disconnecting the service hoses.
- Attention: The machine and A/C system in vehicles containing refrigerant should not be tested with compressed air. Some mixtures of air and refrigerant have proven to be combustible at high pressure levels. These mixtures are potentially hazardous and there is a risk of fire and explosions that can cause damage to property and personal injury.
 Additional medical and safety information can be obtained from the manufacturers of the oils and refrigerants.

2.3 Guidelines for handling refrigerants

Precautions for Refrigerant Storage

The refrigerant to be removed from a system must be handled carefully in order to prevent or minimise the possibilities of different refrigerants mixing.

The tank used for storing refrigerants must be assigned to specific refrigerants to avoid different refrigerants mixing

Recycling Capacity

The recycling machine's filter system should be replaced regularly in order to maintain the efficiency of the recycling machine

General Notions

Before re-introducing refrigerant into the system, the system itself must be evacuated and cleaned.

In order to be sure that the system is free of contaminating agents before introducing the refrigerant, all the procedures described in this instruction manual must be followed.

Clean and maintain the machine regularly, especially when highly contaminated refrigerant is used: it is extremely important that contamination from the previous operation is not transferred to subsequent operations.

2.4 Safety devices

The machine is equipped with the safety devices required from the European Directives:

- · Electric safety switch
- · Safety valve



CAUTION! Danger of injury due to manipulation. DO NOT MODIFY THE SAFETY DEVICES.

2.5 Not condensable gas discharge

A not condensable gas discharge valve is installed to allow these gasses to be released. The not condensable gas discharge valve could generate noises.



WARNING! Risk of injury from escaping gases under high pressure. Make sure that you never come in contact with the drain valve!

2.6 Ventilation Safety System

The machine is equipped with a ventilation security system which allows the use in high temperature environments.

It is forbidden to obstruct the inlet grid of the fan.

2.7 The work environment

- The machine must be used in well ventilated environments (at least 4 changes of air per hour).
 Protect the machine against atmospheric agents (such as avoiding direct exposure to sunrays, rain, etc...).
- The unit has been designed for use at a maximum altitude of 1000 m above sea level, within a temperature range of +10 and +49°C and with a maximum humidity of 50% at +40°C.
- · Operate in sufficiently lit conditions.

3 Use of the machine

3.1 Unpacking and checking the components

Remove the machine packaging and ensure that the following parts are present:

EC/PED documentation

3.2 Machine description

3.2.1 Control panel

- 1. Display
- 2. START button / LED
- 3. STOP button / LED
- 4. Information button (i)
- 5. Cancel button (X)
- 6. COOLIUS SELECT with ENTER button / LED
- 7. Right button / LED
- 8. Left button / LED
- 9. Printer
- 10. USB-Port

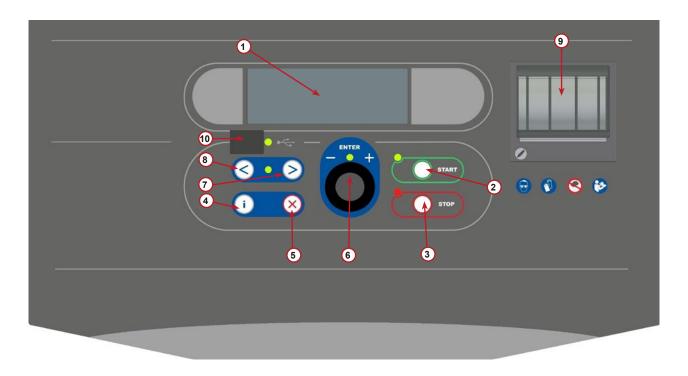
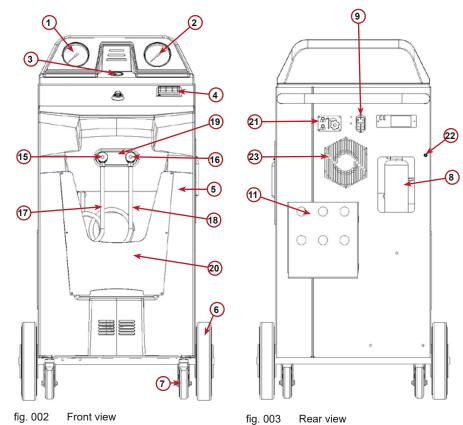


fig. 001 Control panel

3.2.2 The machine

- 1 LP pressure indicator
- 2 HP pressure indicator
- 3 Internal vessel pressure gauge
- 4 Printer
- 5 Front cover
- 6 Rear wheel
- 7 Front wheel with brake
- 8 Drier filter
- 9 Main switch
- 10 Bottle for PAG oil 250 ml
- 11 Storage box for accessories
- 12 Bottle for POE oil 250
- 13 Bottle for UV leakage additive 100 ml
- 14 Drained oil sealed bottle 250 ml
- 15 LP quick coupling
- 16 HP quick coupling
- 17 LP hose
- 18 HP hose
- 19 By-pass
- 20 Front pocket
- 21 Scale lift knob
- 22 Inlet port pressure test (Max 12 bar)
- 23 Ventilation Security System inlet grid



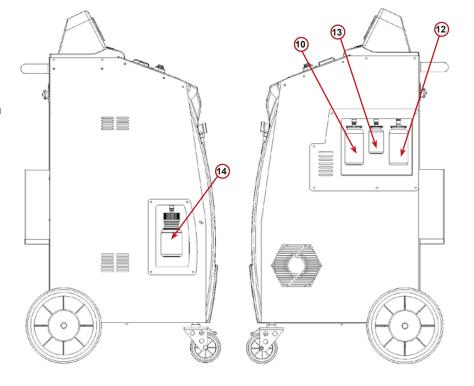


fig. 005

Right view

COOLIUS A50

Left view

fig. 004



ATTENTION! Damage to the machine.

The drained oil bottle is sealed!

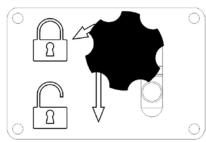
Close the bottle by screwing the cap completely!

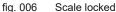
A wrong fitting may cause a malfunction of the unit!



3.3 Transport lock

The transport lock secures the scale of the internal refrigerant vessel and protects it from damage during transport..





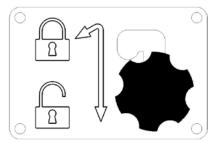


fig. 007 Scale unlocked, workposition



ATTENTION! Damage of the scale during transport
The transport lock must be locked before transporting the A/C service unit.

Unlocking

Unscrew the star grip screw of the transport lock.

Raise the star grip screw, then move to the right and down to the unlocked position.

Retighten the star grip screw slightly.

Locking

Unscrew the star grip screw.

Move the star grip screw upwards and then to the left to the locked position.

Retighten the star grip screw slightly.

3.4 Machine handling

In spite of the fact that the heaviest components have been assembled on the base in order to lower the centre of gravity, it has not been possible to eliminate the risk of overturning completely.

The machine is moved on the four wheels.

On rough ground, the machine must be moved by tilting it and balancing the weight on the two rear wheels.

3.5 On/Off and stopping

Start-up: Move the main switch to the ON position (I) Stopping: Move the main switch to the OFF position (0)



ATTENTION! Damage to the machine.

Do not switch off the machine by unplugging the mains plug!

4 Preparation for the use and settings

4.1 Machine start-up

Press the Power Switch (I) to turn on the Machine.

The ventilation security system starts.

Switch on the machine for the first time and activation

Select the display language

Turn **COOLIUS SELECT** to select the language, then confirm by **ENTER**.

After selecting the language, you have two possibilities to work with the machine.

1. Demo Mode

You can now activate the machine or work in demo mode.

NOTE: All functions will be full working except for the TIME - DATE menu. that is not available.

- 1. Press **STOP** to use the machine in DEMO MODE. (The machine start-up and skip the activation procedure).
 - The display shows the number of days before the activation will be necessary to use the machine.
- 2. Press **START** to go to Stand-by mode.

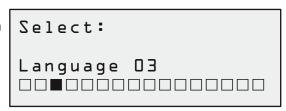
2. Machine activation

1. Press **START** to activate the machine.

NOTE: After 10 days, starting from the first switch on, the display will show only this screen at the start-up.

- To perform the activation, go to website
 www.coolius-ac.com or call your service partner and request the UNLOCK CODE related to the Serial Number written on the display (in this case, the Serial Number is AA000000).
- 3. Press **START** to continue with activation or press **STOP** to skip the activation procedure and start-up the machine in DEMO MODE.

NOTE: STOP key is available only if there is at least one day left for DEMO MODE, otherwise the activation is compulsory and only the **START** key is available.

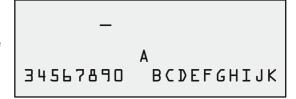


"START" to activate the machine.
www.coolius-ac.com

Machine is working now in DEMO MODE!
Day(s) left

To continue with the activation it is required the knowledge of the UNLOCK CODE.

- 4. Enter the UNLOCK CODE using **COOLIUS SELECT**. Once done, confirm by **START**.
 - If the UNLOCK CODE is wrong, repeat the procedure just described.
 - If the UNLOCK CODE is correct, press START to confirm. The machine is activated and shows the Standby mode.



COOLIUS A50

01-01-5051 10:50:30

4.2 Using the printer

The machine has a built-in roll-up printer which can be used to print the vehicle data and the results of the maintenance work.

Paper width: 58 mmDiameter: 40 mm

Paper feed (1)

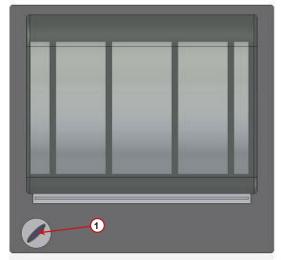


fig. 008 roll-up printer

Before a process:

Turn **COOLIUS SELECT** to select the character then confirm by **ENTER**.

Max 20 characters (plate, chassis, etc...).

At the end of a process:

Press **START** key to print.

Press **STOP** key to end.

CAR DATA:_ C 567890 AB DEFGHIJKLM

Press "START" to print Service report

4.3 Program selection

Press i key to check the refrigerant available.

Press i key to come back in stand-by mode.

Press **ENTER** to select a menu item.

.

Turn COOLIUS SELECT to select the required program.

The symbol ■ shows the current position of the cursor.

The number of symbols \square shows the number of available menu points of this level.

Available quantity: Refrigerant g. ////

Full Service



Overview of the menu contents

- 1. OTHER SELECTIONS
 - SERVICE
 - A/C PRESSURE TEST
 - A/C FLUSHING
 - NEW OIL BOTTL-CHANGE
 - MACHINE SET-UP
 - TIME-DATE
 - COMPANY DATA
 - SCALE RESET
 - MAINTENANCE
- 2. A/C DATABASE
- 3. FULL SERVICE
- 4. OPEN PROGRAM
- 5. VESSEL CHARGE

4.4 Download Service data

Starting from the first switch on of the new year, the display shows:

Download SERVICE DATA!

Press STOP to by-pass or START to download.

NOTE: At the 3rd year, if the data has not been downloaded and deleted yet, only **START** is available. In this case, to unlock the **STOP** key is required to delete the data of at least one year.

If **START** is pressed, then the display shows:

Type the password: 200200

NOTE: This password can be also used in 0THER SELECTIONS > SERVICE

Then the display shows:

— A 34567890 BCDEFGHIJK

Turn *COOLIUS SELECT* to select the year to be downloaded then press *START* to confirm, the display shows:

Year 2020

Insert an empty USB stick.

Insert a USB stick!

NOTE: The file-system of the USB stick must be FAT32, if not please format it.

The download starts when the stick is detected and the display shows:

Downloading!
Please wait!
Record 11/46

In the last line of the screen is indicated the progress of the downloading process.

NOTE: Please do not remove the USB stick during the process to avoid damages to the stick and to the machine.

When the download is completed, the display shows:

Download Completed! Remove USB stick

Remove the USB stick, then the display shows:

Year 2020 Delete data? Confirm by "START"

Press **START** to delete the data or press **STOP** to exit and keep the data stored in the machine.

IMPORTANT NOTE: Before deleting data, be sure that the downloaded file is kept in a safe place. The erasing process is not reversible!!

NOTE: At the 3rd year, if the data has not been downloaded and deleted yet, to unlock the **STOP** key is required to delete the data of at least one year.

If **START** is pressed, the display shows:

Delete data? Confirm again!

Press **START** key to confirm or **STOP** to go back to previous screen.

If **START** is pressed, the display shows:

Please wait!

Wait a few seconds. The recorded data for the selected year is now deleted.

4.5 Setting

4.5.1 Machine set-up

The procedure allows to modify the settings of the machine.

Turn COOLIUS SELECT to select MACHINE SET-UP. Press ENTER to confirm.

Recovery data on service ticket:

- 1 The recovery data are reported on the ticket (recovered amount of refrigerant and oil).
- ☐ The recovery data are not printed.

Turn **COOLIUS SELECT** to select 1 or 0. Press **ENTER** to confirm. The next menu item is displayed.

Refrigerant residual check:

The value is used as default parameter in:

A/C DATABASE and FULL SERVICE

Turn **COOLIUS SELECT** to set the value. Press **ENTER** to confirm. The next menu item is displayed.

Leak test:

The value is used as default parameter in:

A/C DATABASE and FULL SERVICE

Turn **COOLIUS SELECT** to set the value Press **ENTER** to confirm. The next menu item is displayed.

Fresh oil:

The value is used as default parameter in:

A/C DATABASE and FULL SERVICE

Turn **COOLIUS SELECT** to set. Press **ENTER** to confirm. The next menu item is displayed.

UV Dye:

The value is used as default parameter in:

A/C DATABASE and FULL SERVICE

Turn **COOLIUS SELECT** to set the value. Press **ENTER** to confirm. The next menu item is displayed.

NOTE: Set \square to bypass the process

Hoses length:

Turn **COOLIUS SELECT** to set the value.Press **ENTER** to confirm. The next menu item is displayed.

Language:

Turn COOLIUS SELECT to select the language.

Press **ENTER** to confirm.

The next menu item is displayed.

Print recovery data?

Refrigerant residual check

min.

Leak test min. 2

0 i 1

ml. 10

2

UV Dye

ml. b

Set the HP hose length (red hose) cm. 300

Select:

Language 03

18

Unlock Code:

These eight digits are necessary to obtain the UNLOCK CODE for the counter reset. Request the new UNLOCK CODE on the website www.coolius-ac.com or call your service partner.

Press **ENTER**, then the next menu item is displayed.

Printer:

1 Printer online (Activated).

Printer offline or not installed.

Turn COOLIUS SELECT to select 1 or 0.

Press **ENTER** to confirm.

The next menu item is displayed.

Nitrogen Pressure Test:

Automatic Nitrogen Pressure Test activated and automatically performed in the following programs: A/C DATABASE and FULL SERVICE

Automatic Nitrogen Pressure Test not activated.

Turn COOLIUS SELECT to select 1 or 0.

Press **ENTER** to confirm. The next menu item is displayed.

Turn **COOLIUS SELECT** to set the testing time, then press **ENTER** to confirm.

Turn **COOLIUS SELECT** to set the maximum pressure drop value allowed to pass the test, then press **ENTER** to confirm.

The next menu item is displayed.

Automatic internal flushing:

1 Automatic internal flushing activated (see Chap. 6.5)

Automatic internal flushing not activated.

Turn **COOLIUS SELECT** to select 1 or 0, then confirm by **ENTER**.

Press **STOP** to exit.

UNLOCK CODE:

Serial Number:

A A O O O O O O

Optional

Printer

l

Nitrogen Press.Test

AUTO

l

Nitrogen Press-Test

Δ Pressure

min. 3 mb.350

Automatic internal flushing.

l

4.5.2 Time-Date

Turn COOLIUS SELECT to select TIME - DATE.

Press **ENTER** to confirm.

Turn COOLIUS SELECT to modify the blinking value.

Press **ENTER** to confirm. The next value blinks.

Press **START** key to confirm when the setup is completed.

Time: 10:20:30

Date: 01/01/21

4.5.3 Company data

Turn **COOLIUS SELECT** to select COMPANY DATA. Press **ENTER** to confirm.

5 lines are available:

1_____ Company name (Workshop)

2_____ Address (road, etc..)

3_____ City

4_____ Phone

5_____ FAX

The above setting is an example only.

NOTE: These lines are reported on the service ticket.

Procedure:

- Turn COOLIUS SELECT to select the character.
 Press ENTER to confirm, then the character is written on the blinking cell of first line.
- · If required, press X key to delete.
- · It is possible to move in the line by LEFT / RIGHT
- Turn COOLIUS SELECT to select the next character.
 Press ENTER to confirm, then the character is written on the blinking cell of first line.
- Press START key to confirm the setting.
 The display shows the following line.
- Press STOP when the setup of the 5 lines is completed.

4.6 Automatic Internal flushing

The machine is equipped with two oil bottles (one for the PAG oil and one for POE oil). Due to low compatibility between the two kinds of oil, it is strongly suggested to avoid the mixing between the two.

In order to avoid contamination, the Automatic Internal flushing function performs a machine cleaning phase at the end of each process involving the oils.

This function can be deactivated if sure that only one type of oil is used with the machine (also in case of recovery!).



IMPORTANT NOTE: Excluding this function may cause anomalies in the A/C system and could create hazardous situations for the user (electric shocks on the A/C compressor unit)

At the end of Vessel Charge, A/C Pressure Test, A/C Data-Base, Full Service, Open Program (only the ones including "Recovery" and/or "A/C System Charge"), the display shows:

Perform the instruction, then press **START** key to confirm. At the end of the process:

Press **STOP** key to exit.

Join HP/LP couplers to the stands and open the valves

567890 AB DEFGHIJKLM

Internal flushing end Machine ready!

4.7 Maintenance messages



NOTE: Maintenance of the vacuum pump must be performed every 3000 minutes or at the latest after one year of operation, whichever is sooner.

The following messages can be shown at the start-up of the machine:

Notice: "MAINTENANCE WILL EXPIRE SOON!" or

"MAINTENANCE EXPIRED!"

Maintenance will expire soon!

Press **STOP** to continue with the start-up of the machine.

Maintenance will expire soon!
Call for service

Maintenance expired!

 Press STOP key when MAINTENANCE EXPIRED! message is shown. Maintenance expired!
UNLOCK CODE required

2. Then the display shows:

Press **STOP** key and hold it for 5 seconds to continue with the start-up of the machine.

Get UNLOCK CODE register:

BBlllll www.coolius-ac.com

NOTE: See chapter 6.3 Counter reset (UNLOCK CODE required) p. 36 to reset the maintenance counter.

4.8 Error messages

No	Error message		Description
A 1	ERROR	Αl	Scale blocked or faulty (See chapter 3.3 Transport lock p. 12)
А3	ERROR	ΕА	Scale is loaded and is not possible to set the zero point. Unload the weight scale (<i>See chapter 3.3 Transport lock p. 12</i>).
C1	ERROR	Cl	Recovery process anomaly or compressor faulty
C5	ERROR	C 5	Low pressure quick coupler (LP) is not connected to the A/C System during the flushing process.
F1	ERROR	FЪ	The pressure is too low to complete the A/C System Charge (in case of A/C System Charge performed by "HP PORT" only and LP quick coupler is not connected).
	ERROR! Overpressure in recovery process!		High pressure switch activated. Wait 20/30 min. If the message appears again, please contact SERVICE CENTER.
	Vessel full! Please wait!		Maximum refrigerant quantity allowed! Reduce the refrigerant quantity in the internal vessel.
	Leakage! "START" to by-pas:	S	If after a few minutes the minimum value is not reached. Possible causes: defective A/C system, etc

No	Error message	Description	
	Insufficient vacuum for oil/UV charge! "START" to by-pass	The vacuum value is not enough to guarantee the process. Possible causes: defective A/C system, air in the bottles, etc Press <i>START</i> to by-pass the process and go to charge process.	
	Insufficient refrigerant! Charge the vessel.	The refrigerant quantity is below the minimum quantity required. Perform "Internal vessel charge".	
	Last internal flushing process not completed	Internal flushing of last process was not correctly completed. Press START key to perform it again. ATTENTION! The following procedure is STRONGLY DISCOURAGED! Please read See chapter 4.6 Automatic Internal flushing p. 20 and PROCEED AT YOUR OWN RISK! NOTE: Is possible to skip the cleaning process by keeping pressed down the STOP key for 5 seconds.	

4.9 Vessel charge

The equipment may not contain enough refrigerant to run. The available quantity could be negative (Es: -500 g.) It will be necessary to add new refrigerant into the internal vessel before the use (at least 3 or 4 Kg).

1. Turn COOLIUS SELECT to select VESSEL CHARGE. Press ENTER to confirm.



NOTE: The message is shown before processes.

WARNING! Verify Oil/UV quantity in the bottles.

2. Connect the LP (BLUE) or the HP (RED) hose to a new tank of refrigerant. If available, open the liquid tank valve (RED).

Otherwise turn the tank up-side-down.

Connect LP or HP hose to ext. tank. Open the valve liquid side.

- 3. Turn COOLIUS SELECT to set the value.
 - Minimum: 800 g.
 - Maximum: the value shown by the display.
- 4. Press **ENTER** to confirm..

Set the quantity.

g • / / / /

5. Press **START** key to confirm

Confirm by "START"



MESSAGE: If the equipment senses a pressure lower than the minimum value for the process.

Check:

Ext. tank empty or tank valve closed.

The process starts.

Vessel charge in process.
Pressure mb.
Refrigerant g.////



MESSAGE: If the equipment senses a pressure lower than the minimum value for the process.

Check:

Ext. tank empty or tank valve closed.

- Replace the external tank, then press START key to confirm.
- Press STOP key to complete the process.

The process is completed.

6. Close the tank valve and disconnect the red hose from the tank.

Press **START** key to confirm.

Vessel charge end.

Close the external tank valve.

Refrigerant recovery from the service hoses

7. Press **STOP** key to end.

The machine now performs a self-cleaning process See chapter 4.6 Automatic Internal flushing p. 20 if "Automatic internal flushing" is activated under MACHINE SET-UP See chapter Automatic internal flushing: p. 19.

Otherwise it goes to stand-by mode.

Vessel charge end.

g - / / / /

5 Programs

5.1 New oil bottle change



NOTE: A/C System can be damaged.

If it is required to change the kind of compressor oil, the A/C machine will require flushing to prevent cross contamination of oils. This procedure cleans the hoses and pipes prior to new oil injection.

1. Turn COOLIUS SELECT to select OTHER SELECTIONS.

Press **ENTER** to confirm.

2. Turn COOLIUS SELECT to select NEW OIL BOTTLE CHANGE.

Press **ENTER** to confirm

3. Turn **COOLIUS SELECT** to select the bottle that has to be replaced (PAG oil or POE oil).

Press **ENTER** to confirm.

4. Replace the oil bottle with the new oil bottle.

Press **ENTER** to confirm.

5. Perform the instruction.

Press **START** key to confirm.

6. The machine starts.

If the couplers are not joint to the stand or the coupler valves are not closed, message:

7. Press **START** key to confirm.

The machine starts. The process cleans the complete unit included the service hoses.

At the end:

8. Press **STOP** key to exit.. The machine is ready.

New oil bottl-change

Select oil type:

PAG oil

Replace oil bottle with the new oil bottle for specific application.

Join HP/LP couplers to the stand and open the valves!
Confirm by "START"

Internal flushing

Wait!

Join HP/LP couplers to the stand and open the valves!
Confirm by "START"

Internal flushing end.

COOLIUS A50

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5.2 Full service

- 1. Press **ENTER** to go to selection menu (if in Stand-by mode).
- 2. Turn COOLIUS SELECT to select FULL SERVICE
- 3. Press ENTER to confirm.
- 4. Turn **COOLIUS SELECT** to set the amount of refrigerant to be charged into the A/C system.
 - Minimum: 50 g.
- 5. Press **ENTER** to confirm.
- 6. Turn COOLIUS SELECT to set AUTOMATIC / MANUAL / NO Press ENTER to confirm.

If AUTOMATIC or MANUAL is selected, then the display shows:

7. Turn COOLIUS SELECT to set PAG OIL or POE OIL

Press **ENTER** to confirm.

If AUTOMATIC is selected, then the display shows:

- Turn COOLIUS SELECT to set oil quantity, confirm by ENTER, then set UV quantity and press ENTER to confirm.
- 9. Turn COOLIUS SELECT to set (usually HP)
 HP PORT / LP PORT / HP/LP PORTS

Press **ENTER** to confirm.

Equipment with printer: See chapter 4.2 Using the printer p. 14

10. Press **START** key to confirm.

The equipment performs all the processes.

- Recovery
- · Residual refrigerant check
- Used oil drain process
- Nitrogen Pressure test (if Nitrogen Press.Test AUTO is set to 1 in MACHINE SET-UP).
- · Vacuum, Leak test
- New oil charge
- UV Dye charge
- · Refrigerant charge

Full service

Refrigerant g. 500

Oil/UV charge

Automatic

Select Oil Type

PAG 0il

PAG 0il UV dye ml. ml.

Charge A/C system by

HP PORT

Confirm by "START"

11. At the end of the processes, start the engine and A/C system, then check the pressures.

Verify the A/C system pressures.

12. At the end of the verification, press **STOP** key to end.

Perform the instruction.

Disconnect the HP/LP service hoses from the A/C system.

13. Press **START** key to confirm.

At the end, all the process values are reported on the display.

Refrigerant recovery from the service hoses

Recovery

Refrigerant g. //// PAG Oil ml. //

Vacuum

mb - ///

- 14. Press **STOP** key to end. Equipment with printer: *See chapter 4.2 Using the printer p. 14*
- 15. Press **START** key to print or **STOP** key to skip.

A/C system charge

Quantity g.///

The machine performs a self-cleaning process *See chapter 4.6 Automatic Internal flushing p. 20* if "Automatic internal flushing" is activated under MACHINE SET-UP *See chapter Automatic internal flushing: p. 19.*

Otherwise it goes to stand-by mode.

5.3 A/C database

The memory contains the data of the main cars on the market.

1. Press **ENTER** to go to selection menu (if in Stand-by mode).

2. Turn **COOLIUS SELECT** to select A/C DATABASE Press **ENTER** to confirm.

A/C DataBase
□■□□□

3. Turn **COOLIUS SELECT** to select the brand. Press **ENTER** to confirm.

Hyundai

4. Turn **COOLIUS SELECT** to select the model. Press **ENTER** to confirm.

Hyundai i30

5. Turn **COOLIUS SELECT** to select the version of the vehicle.

Press **ENTER** to confirm.

Hyundai i30 2012-

6. Refrigerant quantitty and oil viscosity are shown.

7. For more information, press **i** key.

Hyundai i30 PAG FD46XG ml· 150 g· 500

Press i key to go back.

Please refer to the car manufacturer technical specifications!

8. Press **START** key to confirm.
The program is performed like *See chapter 5.2 Full service p. 25*.

Hyundai i30 PAG FD46XG ml· 150 g· 500

Type

The display shows:

9. Turn COOLIUS SELECT to set PAG OIL or POE OIL.

PAG 0il

Select Oil

Press ENTER to confirm.

10. Turn **COOLIUS SELECT** to set (usually HP) HP PORT / LP PORT / HP/LP PORTS

Press **ENTER** to confirm.

Charge A/C system by HP PORT

At the end The machine performs a self-cleaning process See chapter 4.6 Automatic Internal flushing p. 20 if "Automatic internal flushing" is activated under MACHINE SET-UP See chapter Automatic internal flushing: p. 19. Otherwise it goes to stand-by mode.

5.4 **Owner DataBase**

In the OWNER DATABASE, you have the ability to create your own, frequently used vehicle data.

5.4.1 Creation of a vehicle

1. In the Menu A/C DATABASE turn COOLIUS SELECT counter clockwise, the display shows:

Confirm by ENTER.

NOTE: The display could show PLEASE WAIT! for a very short time.

2. The display shows:

Confirm by **ENTER** to create a new vehicle or **STOP** to

exit.

3. Type the brand of the vehicle.

NOTE: The field cannot be empty and a space is not allowed as a first character.

- 4. When the brand is filed, press **START** to confirm.
- 5. Type the model of the vehicle. NOTE: The field cannot be empty and a space is not allowed as a first character.
- 6. When the model is filed, press **START** to confirm. The display shows:
- 7. Set the quantity of refrigerant by **COOLIUS SELECT** (from 50 to 5.000). Press START to save.

The record is saved in alphabetical order.

Owner DataBase

New Model?

Brand:

34567890 BCDEFGHIJK

Quantity:

34567890

Model:

500 g •

BCDEFGHIJK

5.4.2 Selection of a vehicle

1. Enter in A/C DATABASE.

Turn **COOLIUS SELECT** counter clockwise, the display shows:

UserBrand
UserModel
g. 500
INFO

2. Turn **COOLIUS SELECT** to select the desired vehicle, then press **ENTER** to use it, or **STOP** to exit.

Automatic

- 3. Turn COOLIUS SELECT to choose between:
 - AUTOMATIC: The machine performs a complete process using the default values for oil and UV

(set in MACHINE SET-UP).

MANUAL: The machine goes to the complete process set-up

See chapter 5.5 Open program p. 30

RECOVERY / NITROGEN PRESS- TEST / VACUUM / A/C SYSTEM CHARGE.

NOTE: Set the Nitrogen test time to \square minutes to bypass the pressure test.

4. Press **ENTER** to confirm or **STOP** to go back to the Owner DataBase list of vehicles.

5.4.3 How to modify or delete a saved vehicle

1. Enter in A/C DATABASE.

Turn **COOLIUS SELECT** counter clockwise, the display shows:

UserBrand UserModel g. 500 INFO

2. Press i (INFO) key, then the display shows:

Modify

- 3. Turn **COOLIUS SELECT** to select between MODIFY and DELETE, then press **ENTER** to confirm or **STOP** to go back to the Owner DataBase list of vehicles.
 - MODIFY: Overwrite the existing BRAND, MODEL and **Quantity** fields for the selected vehicle as shown in CREATION OF A VEHICLE.

See chapter 5.4.1 Creation of a vehicle p. 28

• DELETE: Press **START** to confirm when the

display shows:

Delete

Confirm by "START"

Wait a few seconds.

NOTE: The waiting time increases as the number of vehicles in the Owner DataBase becomes larger.

The vehicle is now deleted and the machine goes to the Owner DataBase list of vehicles.

5.5 Open program

1. Press **ENTER** to go to selection menu (if in Stand-by mode).

Open program

2. Press ENTER to confirm.

3. Turn **COOLIUS SELECT** to select the program or more programs.

Recovery

The following selections are available:

- "RECOVERY"
- "NITROGEN PRESS.TEST"
- "VACUUM"
- "A/C SYSTEM CHARGE"
- "RECOVERY / VACUUM"
- "VACUUM / A/C SYSTEM CHARGE"
- "RECOVERY / NITROGEN PRESS. TEST / VACUUM / A/C SYSTEM CHARGE"
- 4. Press ENTER to confirm.

5.5.1 Process setting

Recovery

1. Turn COOLIUS SELECT to set the value.

Minimum: 1 min.Maximum: 60 min.

Residual refrigerant check.

min. 2

2. Press ENTER to confirm.

At the end The machine performs a self-cleaning process *See chapter 4.6 Automatic Internal flushing p. 20* if "Automatic internal flushing" is activated under MACHINE SET-UP *See chapter Automatic internal flushing: p. 19*

Otherwise it goes to stand-by mode.

Nitrogen Pressure Test



Attention! Damage to the machine.

Maximum allowed pressure 12 bar!

Please refer to OEM instructions for Nitrogen Pressure Test!

1. Turn **COOLIUS SELECT** to set the testing time.

Minimum: 1 min.Maximum: 60 min.

Press ENTER key to confirm.

2. Turn **COOLIUS SELECT** to set the maximum pressure drop value allowed to pass the test.

Minimum: 100 mb.Maximum: 800 mb.

Press ENTER key to confirm.

Nitrogen Press-Test

min. 3 ∆ Pressure mb.350

3. Enter CAR DATA, then the display shows:

Please connect nitrogen bottle to press. test inlet port

4. Press **START** to confirm.

The nitrogen valve fills the A/C System.

When the pressure is stable, the machine checks possible leaks for the time set.

Nitrogen Press.Test in process

Pressure mb. 6500

At the end, the exhaust nitrogen valve empties the A/C System.

Nitrogen Press.Test in process Time sec. 120 Pressure mb. 6500

Nitrogen Press-Test in process

Pressure mb. 6500

Process end.

Nitrogen Press-Test OK!



MESSAGE: If charging pressure is too low (below the minimum allowed threshold).

Press **STOP** to exit.

Not enough pressure to test the A/C system!



MESSAGE: If during the test a leak is detected:

Press **STOP** to exit.

Leakage in the A/C system under test.

Vacuum

1. Turn COOLIUS SELECT to set the vacuum time.

Minimum: 0 min.Maximum: 900 min.

NOTE: 0 means infinite Vacuum time (keep **STOP** key pressed down for 3 sec. to end Vacuum phase)

2. Press ENTER to confirm.

3. Turn COOLIUS SELECT to set the leak test time.

Minimum: 2 min.
Maximum: 60 min.
4. Press ENTER to confirm.

Vacuum time min. 20 Leak test min. _

A/C system charge

A) In case of vacuum selected:

 Turn COOLIUS SELECT to select the oil type (PAG oil or POE oil).

Press **ENTER** to confirm.

Select oil type:

PAG oil

1. Turn COOLIUS SELECT to set the Fresh oil value.

NOTE: The value indicates only the new oil added to the drained oil.

Minimum: 0 g. Maximum: 150 g.

2. Press ENTER to confirm.

3. Turn COOLIUS SELECT to set the refrigerant amount.

Minimum: 50 g.4. Press **ENTER** to confirm.

PAG Oil ml.
UV Dye ml.
Refrigerant

B) In case of vacuum not selected:

Refrigerant g.____

C) In case of A/C system charge:

Turn COOLIUS SELECT to set (usually HP).
 HP PORT / LP PORT / HP/LP PORT

6. Press ENTER to confirm.

7. Input CAR DATA, then press **START** key to confirm. The equipment performs all the selected processes.

Charge A/C system by HP PORT

At the end, the machine performs a self-cleaning process *See chapter 4.6 Automatic Internal flushing p. 20* if "Automatic internal flushing" is activated under MACHINE SET-UP *See chapter Automatic internal flushing: p. 19.*

Otherwise it goes to stand-by mode.

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5.6 A/C pressure test

This procedure allows to check the A/C system (pressures) without recovering refrigerant from the system.

1. Press **ENTER** to confirm.

A/C Pressure Test

2. Perform the pressure test. At the end confirm by **STOP**.

Verify the A/C system pressures

NOTE: If a temperature probe is connected to the machine, then the value is shown in the 4th row of the screen.

3. Perform the instruction. Press **START** to confirm

Disconnect the HP service hose (red) from the A/C system

4. Wait the end.

Refrigerant recovery from the service hoses.

At the end The machine performs a self-cleaning process See chapter 4.6 Automatic Internal flushing p. 20 if "Automatic internal flushing" is activated under MACHINE SET-UP See chapter Automatic internal flushing: p. 19. Otherwise it goes to stand-by mode.

5.7 A/C flushing (UNLOCK CODE required)

The flushing UNLOCK CODE is required to activate the A/C flushing process, please retrieve it on the website www.coolius-ac.com.

1. Press START to confirm.

Get UNLOCK CODE register:
CC222222
www.coolius-ac.com

2. Enter the UNLOCK CODE using COOLIUS SELECT.

A * * * * * *

BCDEFGHIJK

34567890

3. Once done, confirm by **START**.



In order to clean the vehicle A/C system, the equipment performs a washing process in "single" or "multi pass" (multiple flushes). For more details, refer to the A/C system manufacturers.

- 1. Press ENTER to confirm.
- Turn COOLIUS SELECT to select OTHER SELECTIONS confirm by ENTER then A/C FLUSHING.
- 3. Press ENTER to select.

A/C Flushing

4. Turn **COOLIUS SELECT** to set from 11 to 14 steps (flushes).

Enter CAR DATA and press **START** to confirm.

5. Press **START** key to confirm.

A/C Flushing

Set flushes required: 01

Confirm by "START"

The "single" or "multi pass" process is carried out.

NOTE: Appropriate adaptors for the compressor/expansion valve are required.

Flushing in process
Please wait!
>>>

At the end, the machine performs a self-cleaning process *See chapter 4.6 Automatic Internal flushing p. 20* if "Automatic internal flushing" is activated under MACHINE SET-UP *See chapter Automatic internal flushing: p. 19.*

Otherwise it goes to stand-by mode.

Flushing completed.

0il ml. //

6 Maintenance



NOTE: Maintenance of the vacuum pump must be performed every 3000 minutes or at the latest after one year of operation, whichever is sooner.



ATTENTION! Damage to the machine!

Maintenance can be made exclusively by SERVICE CENTER authorized by the manufacturer.

- 1. Press **ENTER** to go to selection menu (if in Stand-by mode).
- 2. Turn **COOLIUS SELECT** to select OTHER SELECTIONS and confirm by **ENTER**. Then select MAINTENANCE and confirm by **ENTER**.

Select:

Historical counters

Available selections:

- HISTORICAL COUNTERS
- NEXT SERVICE
- COUNTER RESET (UNLOCK CODE required)
- REPORT
- 3. Press **ENTER** to confirm.

6.1 Operation history

This menu allows to check the operation history of the machine. The data are not erasable!

Turn **COOLIUS SELECT** to select one of the following counters:

- REFRIGERANT RECOVERED FROM A/C SYSTEM
- REFRIGERANT RECOVERED FROM EXTERNAL TANK
- REFRIGERANT CHARGED TO A/C SYSTEM
- VACUUM WORKING TIME

Select counter. R134a recovered Total Kg. ///./

6.2 Next service

This menu allows to check the next service required:

Maintenance within 3000 min. pump working time.

6.3 Counter reset (UNLOCK CODE required)



NOTE: Change the filter and/or the vacuum pump oil before reset!

NOTE: Only genuine spare parts or their equivalent The use of replacement parts which are not of equivalent quality may damage the machine!

Go to website <u>www.coolius-ac.com</u> or call your service partner to get the UNLOCK CODE for maintenance counter reset..

- 1. Press **ENTER** to type the unlock code.
- 2. Use the **COOLIUS SELECT** to enter the maintenance UNLOCK CODE obtained from www.coolius-ac.com.

Confirm by **START** when done.

- If the UNLOCK CODE is wrong, repeat the step 8.
- If the UNLOCK CODE is right, go to step 9:
- 3. The display shows:

Press X key to confirm.

4. Press again **X** key to confirm.

Maintenance reset successfully completed.

A******

A
34567890 BCDEFGHIJK

Counter reset.
Confirm by "X"
min. ///

Counter reset. Confirm again!

6.4 Filter replacement



ATTENTION! Risk of injury from leaking refrigerant.

Contact with the refrigerant can cause blindness and other physical injury to the user!

Always use goggles and gloves!





1. Before dismounting the filter, start a recovery process to reduce the internal pressure!



ATTENTION! Risk of injury from electric shock. Before working on the machine, always disconnect the plug from the power supply.

The maintenance of the filter can be performed by the inspection hole placed on the back side of the equipment.

2. By 38 mm (2) wrench unscrew the filter (1).



NOTE! Disposal in according to local directives!

- 3. Lubricate and place correctly the new O-rings.
- 4. Assembly the new filter.

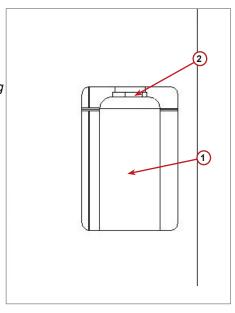


fig. 009 Filter replacement

6.5 Vacuum pump oil replacement

Always use goggles and gloves!



ATTENTION! Risk of injury from leaking refrigerant.

Contact with the refrigerant can cause blindness and other physical injury to the user!







ATTENTION! Risk of injury from electric shock.

Before working on the machine, always disconnect the plug from the power supply.



NOTE: Disposal in according to local directives!

- 1. Dismount the front cover.
- 2. Unscrew the oil discharge screw and wait for the oil to drain. Refit discharge screw.
- 3. Unscrew the muffler.
- 4. Fill with new oil. The correct oil level of the pump is around half sight glass (Filling capacity approx. 400 ml).
- 5. Refit the muffler.
- 6. Close the front cover.

The machine cannot be used with the front cover opened.

NOTE: The picture could show a different type of vacuum pump.

- A Muffler
- B Sight glass to indicate the oil level
- © Discharge screw
- Discharge hole

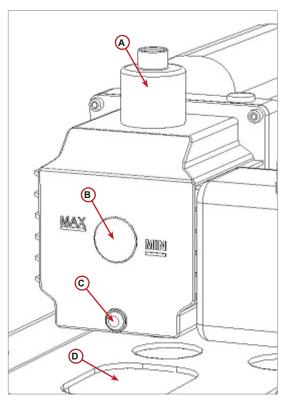


fig. 010 Vacuum pump

6.6 Report

The machine records the refrigerant usage monthly for the previous twelve months. Beyond this period, it will overwrite the data for the month in question.

- Turn COOLIUS SELECT to select the following counters:
 - "REFRIGERANT RECOVERED FROM A/C SYSTEM"
 - "REFRIGERANT RECOVERED FROM EXTERNAL TANK"
 - "REFRIGERANT FILLED TO A/C SYSTEM"

01/2020 R134a recovered Kg. 10.0

The display shows in sequence all the months and the total per year.

2. Press **START** to print the report.

2020 Total R134a recovered Kg· 210

6.7 Scale reset

In order to compensate the scale deviation, perform the following instructions:

- 1. Turn COOLIUS SELECT to select OTHER SELECTIONS, confirm by ENTER,
- 2. Turn COOLIUS SELECT to select SCALE RESET
- 3. Press **ENTER** to confirm.

Scale reset

- 4. Turn COOLIUS SELECT to select the scale:
 - "REFRIGERANT WEIGHT SCALE"
 - "WASTE OIL WEIGHT SCALE"
- 5. Press **ENTER** to confirm.

Select:

Refrig. Weight scale

6.7.1 Refrigerant Weight scale

- 1. Lift the knob on the back side of the machine, move it to the left and turn it in clockwise direction in order to lock it into "safety position".
- 2. Press **START** key to confirm scale unloaded.

Unload weight scale (safety position)



WARNING! Confirm by START only if the scale is unloaded!

3. At the end, bring back the knob to the "working position" (turn it counter-clockwise, move it slightly up and to the right, then fully down).

In case of mistake: Perform again the procedure and be sure to follow correctly the instructions! Reset not possible! Scale not unloaded PLS unload the scale before reset.

6.7.2 Waste oil weight scale

- 1. Disconnect the waste oil bottle from its coupler.
- 2. Press **START** key to confirm bottle disconnected.



WARNING! Confirm by **START** only if the waste oil bottle is disconnected!

Unload used oil scale!

3. Wait the end, then reconnect the waste oil bottle.

7 Technical features

Power 230V+/-10% 50/60Hz Operating temperature range 10/49 °C Refrigerant R134a Internal vessel capacity (Kg) 20 kg Maximum pressure (PS) 20 bars Compressor 3/8 HP Recovery rate (liquid) 500 g/min' Not condensable gas discharge Automatic Main drier filter Type 660 Coaxial Ventilation Security System 172 mm Recovery high speed fan 172 mm Internal vessel pressure gauge D40 mm Oil discharge – Environment friendly Automatic
Refrigerant R134a Internal vessel capacity (Kg) 20 kg Maximum pressure (PS) 20 bars Compressor 3/8 HP Recovery rate (liquid) 500 g/min' Not condensable gas discharge Automatic Main drier filter Type 660 Coaxial Ventilation Security System 172 mm Recovery high speed fan 172 mm Internal vessel pressure gauge D40 mm Oil discharge – Environment friendly Automatic
Internal vessel capacity (Kg) Maximum pressure (PS) Compressor 3/8 HP Recovery rate (liquid) Not condensable gas discharge Automatic Main drier filter Type 660 Coaxial Ventilation Security System 172 mm Recovery high speed fan Internal vessel pressure gauge Oil discharge – Environment friendly
Maximum pressure (PS) Compressor 3/8 HP Recovery rate (liquid) Not condensable gas discharge Automatic Main drier filter Type 660 Coaxial Ventilation Security System 172 mm Recovery high speed fan Internal vessel pressure gauge Oil discharge – Environment friendly 20 bars 20 bars 278 178 179 Automatic
Compressor Recovery rate (liquid) Not condensable gas discharge Automatic Main drier filter Type 660 Coaxial Ventilation Security System Recovery high speed fan Internal vessel pressure gauge Oil discharge – Environment friendly 3/8 HP 500 g/min' Automatic Type 660 Coaxial 172 mm 172 mm D40 mm Automatic
Recovery rate (liquid) Not condensable gas discharge Main drier filter Ventilation Security System Recovery high speed fan Internal vessel pressure gauge Oil discharge – Environment friendly 500 g/min' Automatic Type 660 Coaxial 172 mm 172 mm D40 mm Automatic
Not condensable gas discharge Main drier filter Ventilation Security System Recovery high speed fan Internal vessel pressure gauge Oil discharge – Environment friendly Automatic Automatic Type 660 Coaxial 172 mm 172 mm D40 mm Automatic
Main drier filter Ventilation Security System Recovery high speed fan Internal vessel pressure gauge Oil discharge – Environment friendly Type 660 Coaxial 172 mm 172 mm D40 mm Automatic
Ventilation Security System 172 mm Recovery high speed fan 172 mm Internal vessel pressure gauge D40 mm Oil discharge – Environment friendly Automatic
Recovery high speed fan 172 mm Internal vessel pressure gauge D40 mm Oil discharge – Environment friendly Automatic
Internal vessel pressure gauge D40 mm Oil discharge – Environment friendly Automatic
Oil discharge – Environment friendly Automatic
Bottle capacity (sealed) 250 ml
Refrigerant Weight scale 60 kg
Scale accuracy (+/-) 2 g
Nitrogen pressure test Automatic
Vacuum pump 128 lt/min
Final pressure (McLeod abs) 0,05 mb
Electronic vacuum meter YES
PAG oil charge Automatic
Bottle capacity 250 ml
POE oil charge Automatic
Bottle capacity 250 ml
UV Dye charge Automatic
Bottle capacity 100 ml
Refrigerant charge Automatic
Service hoses compensation Automatic
Flushing program On demand
Workshop program YES
Configuration
Display 4 x 20 characters
Keyboard with COOLIUS SELECT YES
Vehicle Database YES
Printer YES
Pressure gauges (pulse free) CL 1.0 D 80 mm
Service couplings Parker SAE J639
Service hoses 3.0 m SAE J2197

Service hoses extension kit to 6.0 m (additional 3.0 m)	On demand
Pocket document	YES

8 Disposal

8.1 Storage for long periods

The machine should be positioned in a safe area, disconnected from the supply and protected from excessive temperatures and humidity.

8.2 Disposal of used fluids



NOTE! Used oil is hazardous waste. Do not mix used oil with other fluids. Keep used oil in suitable containers prior to disposal.

The lubricants extracted from A/C system must be delivered to used oil collection centre!

8.3 Disposal of packaging material

- The cardboard packaging material should be disposed of with other waste paper.
- Plastic packaging material should be added to other recyclable waste.

8.4 Scrapping the old unit



If you wish to scrap the Machine, first completely drain it of all liquids and dispose of them in an environmentally responsible

Take the old unit to your nearest recycling centre or contact the customer service.

Contact and support 9



If you have further questions about the product or need help with the installation, our technical hotline staff will be happy to help you.

Contact information for your country's service partner can be found on our website www.wow-portal.com/contact

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9.1 **Service Portal**

On the website www.coolius-ac.com the activation of the machine can be carried out independently. In addition, you will find further help and instructions for your COOLIUS device on this website.



COOLIUS

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