ROTARY R³AC60

Rev.01

ENGLISH (US).....5

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R^3AC60

1 REVISION OF THE MANUAL

This document is the technical manual for the product:R^3AC60
Document Revision Number:01
Date of Issue:14/02/2023

INFORMATION 	*Read this manual before using the product.* *Read the documents carefully whenever the General Risk symbol appears.*

2 INTRODUCTION

Dear Customer,

thank you for choosing this product for your workshop.

We are certain that you will get the greatest satisfaction from it and receive a great deal of help in your work.

Please read through the instructions in this manual carefully and keep it for future reference.

Reading and understanding the following manual will help you to avoid damage or personal injury caused by improper use of the product to which it refers.

We reserve the right to make any changes deemed necessary to improve the manual for any technical or marketing requirement, at any time and without prior notice.

This product is intended for use by technicians specialized in the automotive field only. Reading and understanding the information in this manual cannot replace adequate specialized training in this field.

The sole purpose of the manual is to illustrate the functioning of the product sold. It is not intended to offer technical training of any kind and technicians will therefore carry out any interventions under their own responsibility and will be accountable for any damage or personal injury caused by negligence, carelessness, or inexperience, regardless of the fact that this tool has been used following the information contained in this manual.

This manual should be considered an integral part of the product to which it refers. In the case it is resold the original buyer is therefore required to forward the manual to the new owner.

3 LEGEND OF THE SYMBOLS USED

	Toxic material hazard		Risk of crushing hands
	Explosive material hazard		Floor level obstacle warning
	Electric shock hazard		Laser beam hazard
	Electromagnetic field hazard		Low temperature danger - freezing
	Flammable material hazard		General Risk
	Hot surface hazard		Read instructions
	Corrosive substance hazard		Safety glasses required
	Risk of noise level above 80 dB(A)		Protective gloves required
	Moving Parts Risk		Disconnect mains plug from electrical outlet

DANGER	This is not a safety symbol. It indicates a hazardous situation that, if not avoided, will result in serious permanent injury or death.
WARNING	This is not a safety symbol. It indicates a hazardous situation that, if not avoided, may result in serious permanent injury or death.
CAUTION	This is not a safety symbol. It indicates a hazardous situation that, if not avoided, may result in minor injury.
NOTICE	This is not a safety symbol. It indicates a hazardous situation that, if not avoided, may result in material damage.
INFORMATION	This is not a safety symbol. It indicates important information.

4 SAFETY RULES

The technology used for the design and production control of the **R^{3}AC60** charging stations make them simple, reliable and safe to use.

The personnel in charge of using the **R^{3}AC60** charging stations are required to follow the general safety rules, use the charging stations for their intended use only and keep them properly, as described in this manual.

All the requirements based on the following must be assessed and applied:

- *Labor inspectorate.*
- *Trade associations.*
- *Vehicle manufacturers.*
- *Anti-pollution regulations.*

4.1 Intended Use

Product	**Intended Use**
R^{3}AC60	charging and servicing A/C and climate control systems on cars, trucks, buses and tractors.

4.2 Glossary

- **Equipment:***R^{3}AC60*
- **Operator:** *qualified individual in charge of using the equipment.*
- **External cylinder:** *new cylinder for refrigerant R1234yf used to fill the internal tank.*
- **Cycle:** *the carrying out of single phases.*
- **Operating phase:** *the carrying out of a single operation by the equipment (i.e. recycling).*
- **Non-condensable gas:** *air accumulated during the vapor phase in the refrigerant, extracted from the A/C system or from the tanks.*
- **UV tracer injection:** *introduction of UV tracer into the A/C system in order to check for leaks.*
- **Oil injection:** *introduction of oil into the A/C system in order to restore the correct quantity recommended by the manufacturer.*
- **Operator:** *qualified individual in charge of servicing air conditioning systems using a charging station.*
- **Recovery:** *removal of the refrigerant from the A/C system and the subsequent storage in the internal tank, without the need for analysis or treatment.*
- **Refrigerant:** *a liquid capable of vaporizing (R1234yf).*
- **Recycling:** *reduction of the contaminants in the refrigerants used by separating the oil, removing the non-condensable gases and passing the refrigerant once (or multiple times) through elements that reduce the humidity, acidity, etc.*
- **Refilling:** *refrigerant charging phase; it charges the A/C system with the amount of refrigerant recommended by the manufacturer.*
- **Internal tank:** *tank for storing the refrigerant.*
- **A/C system:** *air conditioning or climate control system.*

- **Disposal of the equipment:** *removal of the refrigerant destined to be stored in order to be disposed of later (destroyed or transferred to waste disposal plants).*
- **Vacuum:** *the evacuation of non-condensable gases and humidity from the A/C system exclusively through a vacuum pump.*

INFORMATION

The definition of "operator" cannot be applied to minors or to people with reduced physical, sensory or mental capabilities or without any experience or knowledge required.

4.3 General Rules

The operator must carefully read and understand all the information and instructions in the technical documents provided with the equipment.If the operator cannot read this manual, it is responsibility of the owner of the equipment/employer/person in charge of the safety to illustrate the contents of this document and adequately train the operator in relation to the operating instructions and safety measures for a proper use of the equipment.

- *The operator must have basic knowledge of refrigeration, the refrigeration system, refrigerants and the potential hazards that equipment under extreme pressure can cause.*
- *The operator who works on vehicles must have basic qualifications and knowledge of mechanics, automotive engineering, vehicle repairing and of the potential dangers that may arise during self-diagnosis operations.*
- *The operator must be completely clear-headed and sober and not take drugs nor drink alcohol before or when using the equipment.*
- *The operator must follow all the instructions provided in the technical documents.*
- *The operator is required to wear appropriate Personal Protective Equipment (PPE) at all times when using the equipment.*
- *The operator must monitor the equipment during the operating phases wherever this is possible in compliance with the safety measures indicated below.*
- *The operator must periodically check the electrical connections of the equipment, making sure they are in good condition and immediately replacing any damaged cables.*
- *The operator must periodically check the parts that are subject to wear and replace them if needed, using only original spare parts or spare parts approved by the manufacturer.*
- *The operator must stop using the equipment immediately should any failure occur, and promptly contact the technical assistance.*
- *Contact your retailer for extraordinary maintenance operations.*
- *Do not remove or damage the labels/tags and the warnings on the equipment; do not in any case make them illegible.*
- *Do not remove or tamper with any safety devices the equipment is provided with.*

4.4 Operator Safety

WARNING

Refrigerant fluids can cause blindness and other physical injuries.

Due to their low boiling temperature (approximately - 22 °F or - 30 °C), refrigerants can cause cold burns when they come into contact with the skin.

Safety Measures:

- *The operator must avoid inhaling the vapors of the refrigerant liquids; use appropriate protection when required.*
- *The operator is required to wear appropriate safety glasses and gloves that prevent direct contact with the refrigerants.*
- *Do not use the equipment near open flames, sparks, hot surfaces: the refrigerant decomposes at high temperatures, letting off toxic chemical substances that are harmful to people and the environment.*

⚠ CAUTION

The equipment has been designed to be steady both when being moved and once it is positioned.

However, you must pay attention while moving it.

Safety Measures:

- *Do not tilt the equipment in any way.*
- *Do not step on the equipment.*
- *Do not hang loads that may compromise the stability of the equipment, causing it to tip over.*
- *To move the equipment, use the specific handle only and balance the station on its wheels.*
- *Avoid moving it on uneven surfaces.*

⚠ CAUTION

The equipment was designed to be electrically safe and to work with specific supply voltage levels.

Improper use may expose the operator to the risk of electric shock, even though of low intensity.

Safety Measures:

- *Wear appropriate personal protective equipment during all the operating phases.*
- *Do not handle or touch the equipment or any accessories (e.g. cables) with wet hands.*
- *Do not use extension cords to power the equipment.*

⚠ WARNING

The current used during the operating phases may generate Electromagnetic Fields (EMF) near the equipment.

Even though of low intensity, these fields may interfere with medical prostheses, such as pacemakers.

Safety Measures:

- *Keep away from the equipment after launching the operating phases.*
- *If you have a medical prosthesis (e.g.: pacemaker), check with your doctor as to the appropriateness of using the equipment or being near it.*

4.5 Device Safety

NOTICE

The equipment was designed in compliance with the regulations on pressure equipment and assemblies, evaluating and reducing the risk where present and making appropriate considerations.

However, vibrations, pressure variations or excessive temperatures, especially if cyclic, should be avoided.

Safety Measures:

- *During use, do not move out of the TS operating temperature range and do not exceed the PS maximum operating pressure (see plate on the equipment).*
- *Only use the refrigerant R1234yf.*
- *Make sure you use the correct refrigerant for the model of the device you are using.*
- *Make sure you use the correct refrigerant for the vehicle you are working on.*
- *Connect the hoses correctly by following the colors indicated: Blue hose - LP coupler, Red hose - HP coupler.*
- *Make sure all the valves are closed before connecting the device to the A/C system or to an external cylinder.*
- *Make sure the operating phase has ended and that the valves are closed before disconnecting the device; this should be done to avoid the refrigerant from spreading into the atmosphere.*
- *It is absolutely forbidden to modify the calibration of the safety valves and the control systems.*
- *Do not smoke near the device or during the operating phases.*
- *Do not expose the device to direct sunlight, rain and bad weather conditions.*
- *Disconnect the hoses with extreme caution; they may contain refrigerant under high pressure.*
- *Make sure the couplers are not open when the hoses are placed back around the service hose holder.*
- *Do not leave the device connected to the power supply if you do not intend to use it immediately.*

NOTICE

The equipment was designed to be used in specific environmental conditions.

Using the equipment in environments with temperatures and humidity that differ from those specified may impair its efficiency.

Safety measures:

- *Place the equipment in a dry area.*
- *Do not expose or use the equipment near heat sources.*
- *Place the equipment where it can be properly ventilated.*
- *Do not use corrosive chemicals, solvents or harsh detergents to clean the equipment.*
- *If storing the device for a long period of time, disconnect it from the power mains and put it in a safe place, where it is not exposed to outside weather conditions.*

NOTICE

The equipment was designed to be mechanically sturdy and suitable for use in a workshop.

Careless use and excessive mechanical strain may compromise its efficiency.

Safety measures:

- *Do not drop, shake or bump the equipment.*
- *Do not place the equipment where it could fall into water. Avoid any contact with water.*
- *Do not place any objects on the cables or service hoses.*
- *Do not perform any kind of intervention that may damage the equipment.*
- *Do not use the touchscreen with sharp objects or any other kind of object that may damage it.*
- *Do not access the components inside the equipment unless explicitly requested by specific maintenance operations indicated in this manual.*

NOTICE

The equipment was designed to be electrically safe and to work with specific supply voltage levels.

Failure to comply with the specifications related to the power supply may impair its efficiency.

Safety measures:

- *Do not expose the equipment to water or other liquids.*
- *Do not use external batteries to power the equipment.*
- *Do not use extension cords to power the equipment.*

WARNING

The electromagnetic compatibility tests carried out on the tool guarantee that it can be adapted to the technologies normally used on vehicles (e.g.: engine check, ABS, airbag, etc.). Nevertheless, if malfunctions occur you should contact the vehicle's dealer.

4.6 *Safety Devices*

This equipment is provided with the following safety devices:

- **Safety pressure switch:** *it stops the compressor when the pressure reaches a cut-off level.*
- **Safety valve:** *it opens completely if the PS value is reached.*
- **Main switch:** *it allows cutting off the power from the mains in case of an emergency or to carry out maintenance.*

Tampering with the above mentioned safety devices of any kind is strictly forbidden.

4.7 Safety Precautions to follow when using the Refrigerants

WARNING

The refrigerant R1234yf has been classified as flammable.

Safety Measures:

- *See the safety sheet of this refrigerant to store it correctly.*

4.8 Workplace Safety

NOTICE

The equipment is designed to work at a maximum altitude of 1000 m / 3281 ft above sea level, with an operating temperature between 5 °C / 41 °F and 40 °C / 104 °F and a maximum humidity of 50% at 50 °C / 122 °F.

Safety Measures:

- *Never, under any circumstance, use the device in an environment where there is risk of explosion.*
- *Keep the device in environments with temperatures that do not exceed 122 °F / 50 °C.*
- *Only use the device in open or well-ventilated environments (at least 4 air changes per hour).*
- *Make sure the workplace is well-lit (average operating illuminance, for mechanic workshops and assembly on work benches for precision work, is 500-750-1000 lux).*

4.9 Guidelines for Handling the Refrigerants Used

4.9.1 Refrigerant Storing Precautions

The equipment has been designed and built to operate with the R1234yf refrigerant only.

- *The refrigerant removed from the A/C system must be handled with care to prevent the refrigerants from mixing or in any case reduce the risk of this happening.*
- *The cylinders used for refrigerant storing must be specific for each refrigerant to avoid mixing the refrigerants.*
- *The cylinders must be perfectly clean and clearly labelled in order to identify the refrigerant they contain.*

4.9.2 Refrigerant and System Conditions

The installation procedures and the maintenance carried out during the operating life of the A/C system substantially affect the quality of the refrigerant.

Understanding these factors is essential in order to decide whether or not the refrigerant from a system should be recycled.

The systems that have not been properly maintained (not cleaned, not emptied correctly, etc.) can have high contamination levels, both in the refrigerant and in the oil.

If the history of the system is not known, the refrigerant recovered must at least be recycled before it is reused.

When the contamination level is not known, you may carry out some preliminary checks with the kit specifically for acidity and humidity measurements.

4.9.3 Recycling Capacity

The filtering systems of the device must be replaced regularly in order to guarantee device efficiency.

The recycling must always be carried out, even when tests do not show that they are required.

4.9.4 In General

Before carrying out the refrigerant refilling phase, the A/C system must be emptied and cleaned (a vacuum operation must be carried out).

Carry out all the procedures as described in this manual in order to guarantee that the A/C system is not contaminated.

Carry out the scheduled/regular maintenance on the device as required, especially after it has been used with a highly contaminated refrigerant: it is essential that the contamination from one operation is not passed on to the following one.

4.10 Additional Safety Rules

This manual contains different types of safety messages directed to the user and that the operator must follow.

These messages are defined as follows:

DANGER	This message indicates that you may risk severe personal injury or death.
CAUTION	This message indicates that you may risk damaging people, things or the charging station.
NOTES and **OPERATING TIPS**	These messages provide clear and useful information.

The safety messages written in this manual cover situations the manufacturer is aware of.

The manufacturer cannot be aware of, evaluate and inform you of all the possible risks.

You must make sure the conditions and procedures do not jeopardize your personal safety.

DISCLAIMER

The information, the images and the specifications in this manual are based on the latest information available at the time of the publication.

The manufacturer reserves the right to make changes at any time and without the obligation to notify such revisions or changes to any person or organization.

The manufacturer is not liable for errors in this document or for accidental or consequential damages (including lost profits) related to the supply, the performances or the use of this material.

If necessary, gather further information on health and safety from the specific national agencies and from the manufacturers of the vehicle, the refrigerant and the lubricant.

	**CAUTION – SHOULD BE OPERATED BY CERTIFIED PERSONNEL** Before using the charging station, read and follow the instructions and warnings contained in this manual. The operator must be familiar with the refrigeration and A/C systems, the refrigerants and the dangers that derive from pressurized components. If the operator is not able to read this manual, the operating instructions and the safety indications, they must be read and discussed in the operator's native language.
	**THE PRESSURIZED TANK CONTAINS REFRIGERANT** Do not overfill the internal storage tank as excessive filling could cause explosions, personal injuries or death. Do not recover refrigerants in non-refillable containers; only use refillable containers that are compliant with federal regulations.
	**THE HOSES MAY CONTAIN PRESSURIZED REFRIGERANT** Contact with the refrigerant may cause personal injuries. Wear protective equipment, including safety glasses. Disconnect the hoses using extreme caution.

	**AVOID BREATHING A/C REFRIGERANT AND LUBRICANT VAPOR OR MIST** Exposure could irritate eyes, nose and throat. To remove refrigerant from the A/C system, only use equipment certified for the type of refrigerant being removed to meet the requirements of SAE J2788. CAUTION - This equipment should be used in locations with mechanical ventilation that provides at least four air changes per hour. In case of accidental system discharge, ventilate the working area before resuming service. Additional health and safety information may be obtained from the refrigerant and lubricant manufacturers.
	**DO NOT USE ANY TYPE OF EXTENSION CORD** An extension cord may overheat and cause a fire. If you must use an extension cord, use the shortest one possible with a minimum size of 14 AWG. **REDUCE THE RISK OF FIRES** Do not use the charging station close to open or leaking containers that contain gasoline or other flammable substances.
	**CAUTION – DO NOT PRESSURE TEST OR LEAK TEST EQUIPMENT AND/ OR VEHICLE AIR CONDITIONING SYSTEMS WITH COMPRESSED AIR** Some mixtures of air and refrigerant have proved to be flammable at high pressures. If ignited, these mixtures could cause damage to people or things. Additional health and safety information may be obtained from the refrigerant and lubricant manufacturers.
	**TO AVOID CROSS-CONTAMINATION, USE THIS CHARGING STATION ONLY WITH R1234yf REFRIGERANT** The charging station was designed to recover, recycle and recharge R1234yf refrigerant only. Do not try to adapt the charging station to another type of refrigerant. Do not mix different types of refrigerants inside the system or within the same container; the mixture of refrigerants will cause severe damage to the charging station and to the vehicle's A/C system.
	Only use new lubricant to replace the amount removed during the recycling process. Used lubricant must be disposed of in compliance with applicable federal, state and local procedures and regulations.
	**THE HIGH VOLTAGE CURRENT INSIDE THE CHARGING STATION IMPLIES A RISK OF ELECTRICAL SHOCK** Exposure could cause personal injuries. Disconnect the power before performing any maintenance operation on the charging station.

Further safety and medical information can be obtained from the lubricant and refrigerant manufacturers.

OPERATING NOTE:

At temperatures above 120 °F / 49 °C, wait 10 minutes between any recovery operation.

5 NORMATIVE INFORMATION

Declaration of Conformity

Rotary hereby declares that this **R^{3}AC60** charging station complies with the essential requirements and with all further provisions defined by directives:

- *UL 1963 Certification; Construction review; Safety Testing*
- *CSA C22.2#120; Construction review; Safety Testing*
- *SAE J2843 Pacifica Charge & Recovery Test*
- *SAE J3030 Suburban Charge & Recovery Test; Suburban rental*

The Declaration of Conformity is available in paper format along with the other documents provided with the equipment.

A copy of the Declaration of Conformity can be found at: Rotary, 2700 Lanier Drive, Madison, IN 47250, USA

FCC

R^{3}AC60 meets the following requirements:

- *FCC (Federal Communications Commission) Part 15*

Its operation is subject to the following conditions:

- *this device cannot cause harmful interferences and*
- *this device must accept any interference it receives, including those that can cause an undesired operation.*

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the device.

6 OPERATION OF THE RADIO DEVICES

Wireless connection with Bluetooth and Wi-Fi technology

The wireless connectivity with Bluetooth and Wi-Fi technology supplies a standard and reliable way to exchange information between different devices, using radio waves. Other than TEXA products, even products such as cellular phones, portable devices, computers, printers, cameras, Pocket PCs, etc. use this type of technology.

The Bluetooth and Wi-Fi interfaces look for compatible electronic devices according to the radio signal they emit and establish a connection between them. TEXA tools select and only prompt you with compatible TEXA devices. This does not exclude the presence of other sources of communication or disturbance.

THE EFFICIENCY AND THE QUALITY OF THE BLUETOOTH AND Wi-Fi COMMUNICATIONS MAY BE INFLUENCED BY THE PRESENCE OF RADIO DISTURBANCE SOURCES. THE COMMUNICATION PROTOCOL HAS BEEN DEVELOPED TO MANAGE THESE TYPES OF ERRORS; HOWEVER, IN THESE CASES COMMUNICATION MAY BECOME DIFFICULT AND CONNECTION MAY REQUIRE SEVERAL ATTEMPTS.

SHOULD THE WIRELESS CONNECTION BE CRITICAL AND COMPROMISE A REGULAR COMMUNICATION, THE SOURCE OF THE ENVIRONMENTAL ELECTROMAGNETIC DISTURBANCE MUST BE IDENTIFIED AND ITS INTENSITY MUST BE REDUCED.

Position the tool so that the radio devices it is equipped with can work properly. In particular, do not cover it with any shielding materials or with any metallic materials in general.

7 R^{3}AC60

The **R^{3}AC60** charging stations are designed for servicing A/C and climate control systems on cars, trucks, buses and tractors.

The **R^{3}AC60** stations are high-performance and capable of carrying out the following operations in complete safety: recovery, recycling, vacuum, system refilling and A/C system performance check.

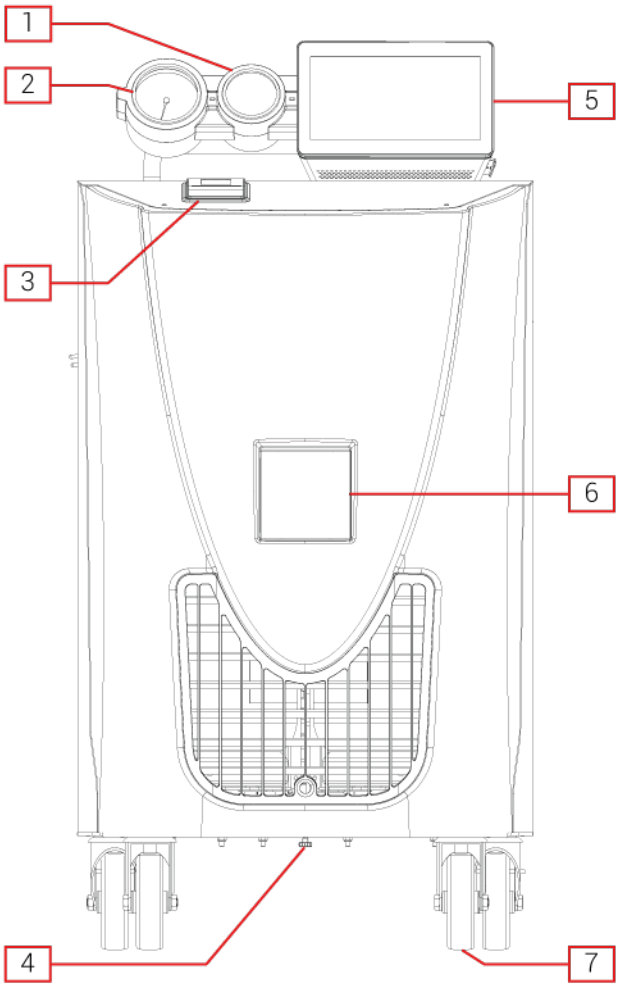
The **R^{3}AC60** charging stations work with **R1234yf** gas.

MAIN FEATURES

- *Refrigerant R1234yf*
- *10" TFT touchscreen display*
- *Advanced graphic interface*
- *DATABASE and performed services management*
- *Tank 10 kg / 22 lb.*
- *Two-stage vacuum pump*
- *High efficiency refrigerant recovery (over 95%)*
- *Automatic refrigerant measurement accuracy check (patent pending)*
- *Automatic maintenance service management*
- *Band heater*
- *Operating modes:*
  - *DATABASE*
  - *CUSTOMIZED SERVICE*
  - *MY DATABASE*
- *Multilingual software coverage*
- *Automatic service hose length compensation*
- *Automatic maintenance alarm*
- *Simplified maintenance*
- *Automatic management of non-condensable gases*
- *Thermal printer**

(*) Optional

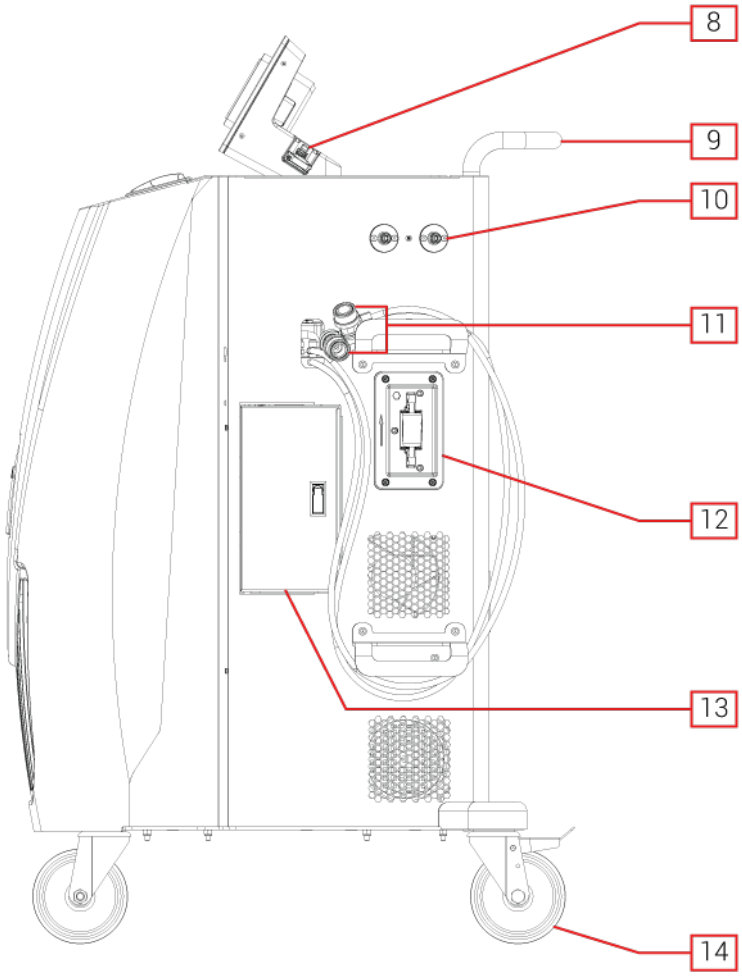
8 DESCRIPTION



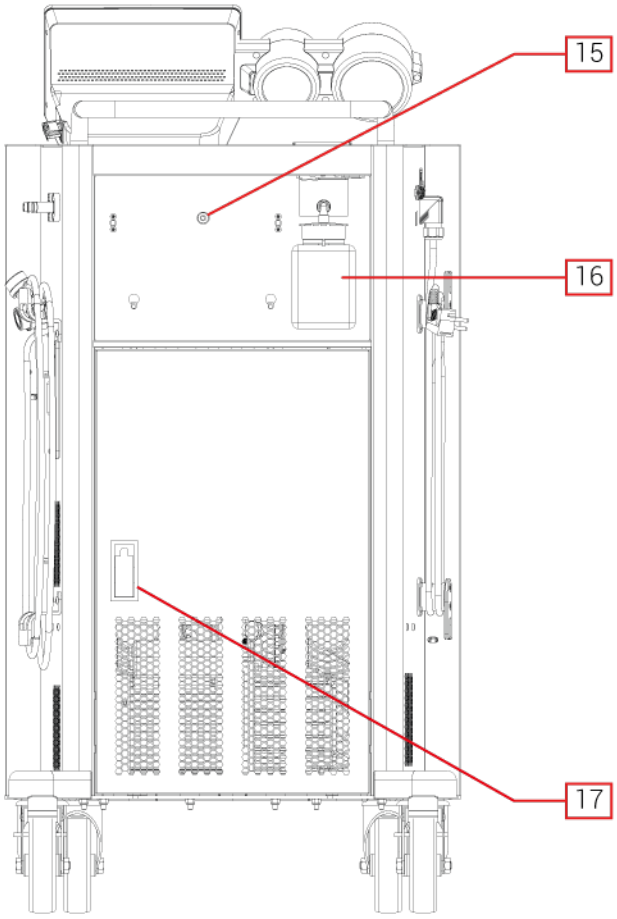
1. Low Pressure gauge (**LP**)
2. High Pressure gauge (**HP**)
3. Printer *

4. Cylinder lock for transport
5. Controller
   Touchscreen
   Bluetooth and Wi-Fi communication modules
6. Cylinder compartment door
7. Castors

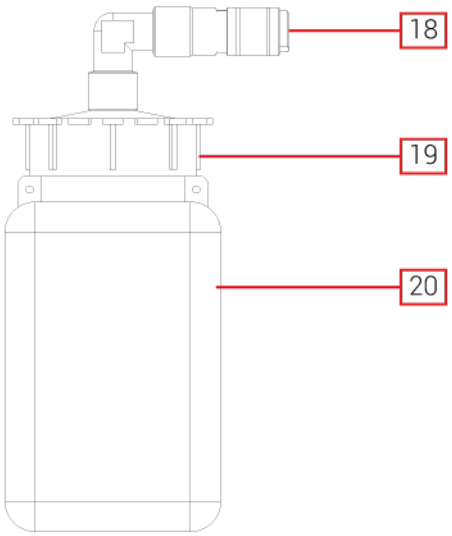
(*) Optional



8. USB connector compartment
9. Handle
10. **GAS:**HP/LP couplers for gas R1234yf
11. HP/LP quick couplers
12. Refrigerant Identifier
13. Service door:Dryer filter
14. Castors with brakes

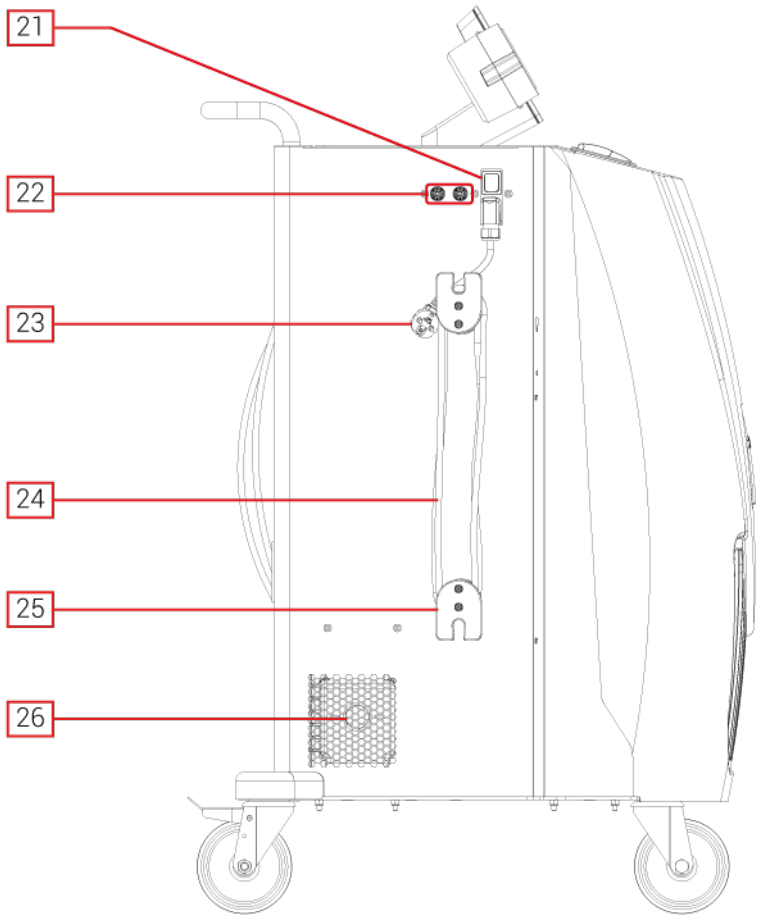


15. Mechanical filter cap
16. **DRAIN:**airtight bottle for recovered oil.
17. Service door:heating



18. Pneumatic connection
19. Tank cap

20. Tank



21. Main switch
22. Safety fuses
23. Power socket
24. Power cable
25. Power cable holder
26. Pump oil level sight

9 INSTALLATION

This chapter describes the procedures required to install the device properly.

NOTICE

The installation must be performed by qualified personnel only, carefully following the instructions provided in this manual.

The device is provided with the following:

- **Technical Manual***: it contains the description of the device, user instructions to guarantee a correct use and correct maintenance.*
- **USB flash drive***: it contains the technical and operating manual (user instructions for the equipment)*
- **TANK FILLING KIT:**
  - *Recharging cylinder hose adapter*
  - *Paper gasket for recharging cylinder hose adapter*
  - *Copper gasket for HP recharging cylinder hose adapter*
- **Tool for removing the dryer filter**

9.1 Unpacking the Device

This chapter gives the instructions for unwrapping/unpacking the equipment.

NOTICE

Perform the described operations with extreme care and on a flat surface to avoid tipping over the device.

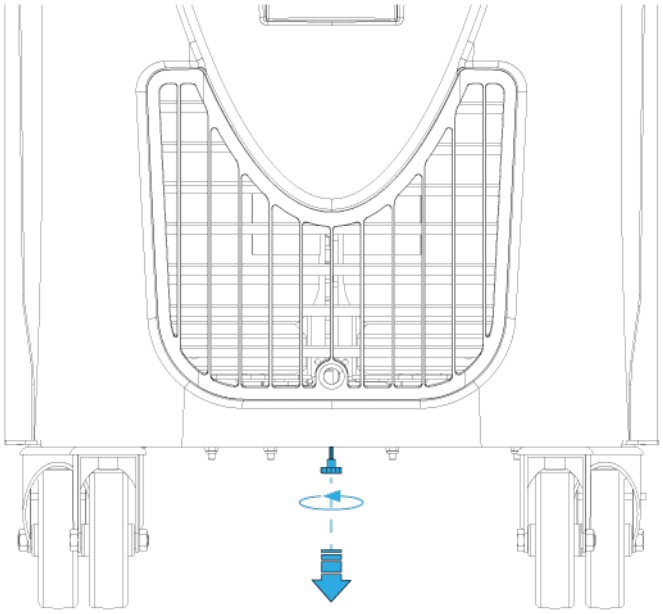
Proceed as follows:

1. *Remove the cardboard.*
2. *Remove the bands that fasten the equipment to the pallet.*
3. *Remove the equipment from the pallet.*
4. *Unlock the wheels.*
5. *Make sure the equipment is in good condition and that it has not been tampered with and/or damaged.*
6. *Make sure no parts are missing.*

9.2 *Transportation Lock Removal*

On the equipment there is a screw that blocks the internal tank's load cell to preserve its integrity during transportation.

This screw must be removed before starting to use the equipment.



Proceed as follows:

1. *Stand in front of the equipment.*
2. *Locate the locking screw.*
3. *Loosen the screw until it is completely removed.*
4. *Keep the screw in case it may be needed in the future when transporting the equipment.*

NOTICE **If the screw is not removed, the charging station may not work properly and/or be damaged during use.**

10 HANDLING

This chapter describes the operations required to properly handle and position the equipment for use.

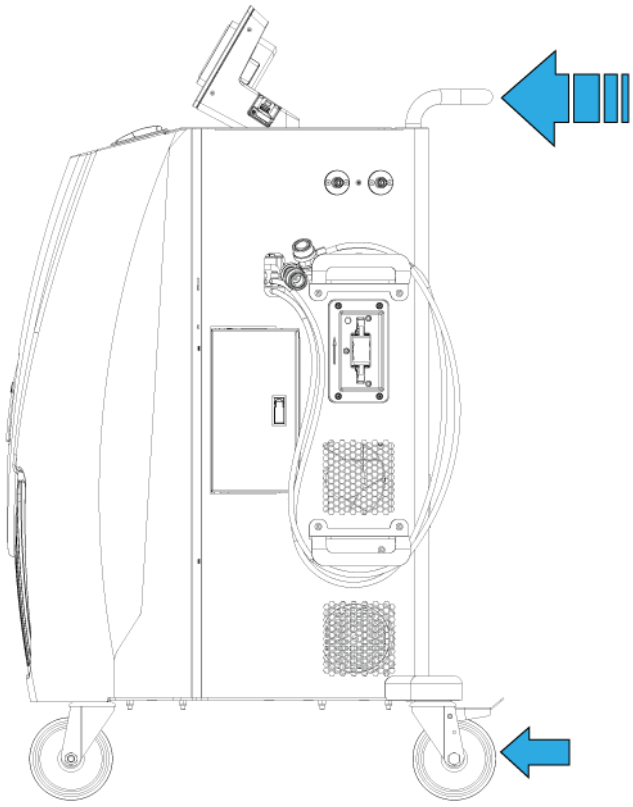
10.1 Moving the Device

The equipment must be moved on its own wheels.

CAUTION

The equipment was specifically designed and created to lower the center of gravity, so the heavier components were placed on the bottom; however it was not possible to completely eliminate the risk of tipping over.

Do not handle the equipment on excessive slopes.



Proceed as follows:

1. *Disconnect the service hoses from the vehicle's A/C system.*
2. *Disconnect the power cable from the mains.*
3. *Unlock the wheels (if required).*
4. *Push the cart using the specific handle located on the back of the equipment.*

10.2 Positioning

The device must be placed near the A/C system that must be checked; make sure it is on a flat surface and in an appropriate environment, as specified in the safety regulations in this manual.

Once the device has been positioned, we suggest locking the wheels with the specific mechanical brakes the wheels are equipped with.

NOTICE **Positioning the equipment on slopes, even though their inclination excludes the risk of tipping over, may interfere with proper equipment operation.**

⚠ CAUTION **Position the equipment so that the main switch can be always reached easily.**

11 POWER SUPPLY

The equipment is powered by the mains through a specific power cable.

The equipment must be connected to the mains through the supplied specific power cable; respect the applicable voltage, frequency and power values.

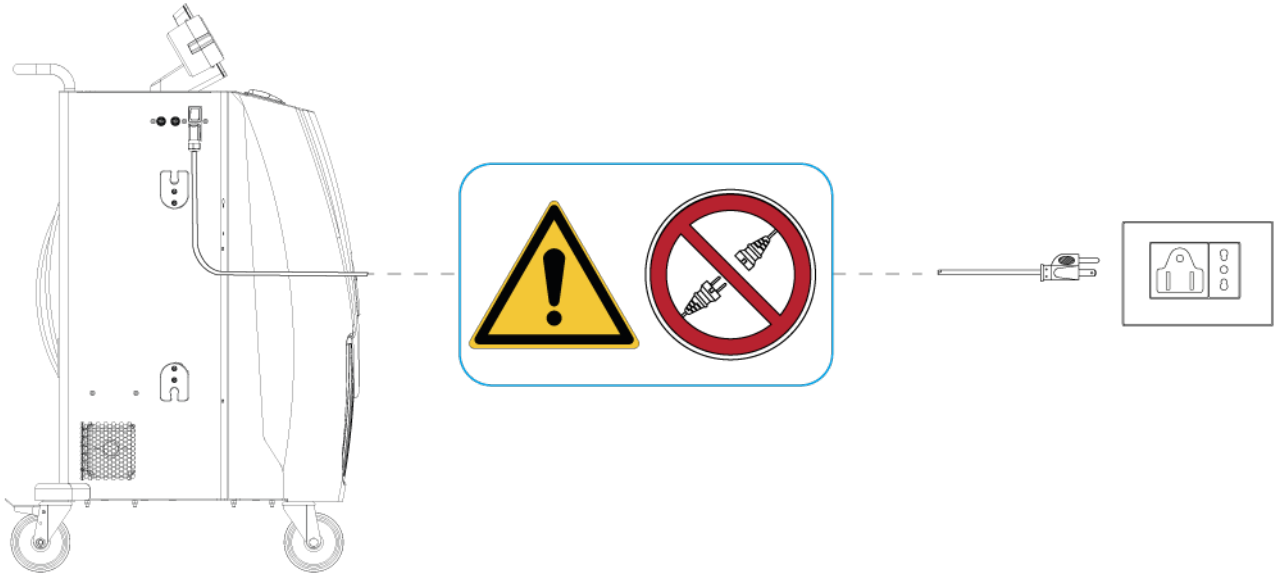
The voltage, frequency and power values that can be applied can be found on the tag located near the main switch.

⚠ CAUTION

The mains plug must be used to disconnect from the mains.

Do not position the equipment so that it becomes difficult to disconnect it from the mains.

Do not use extension cords to power the equipment.

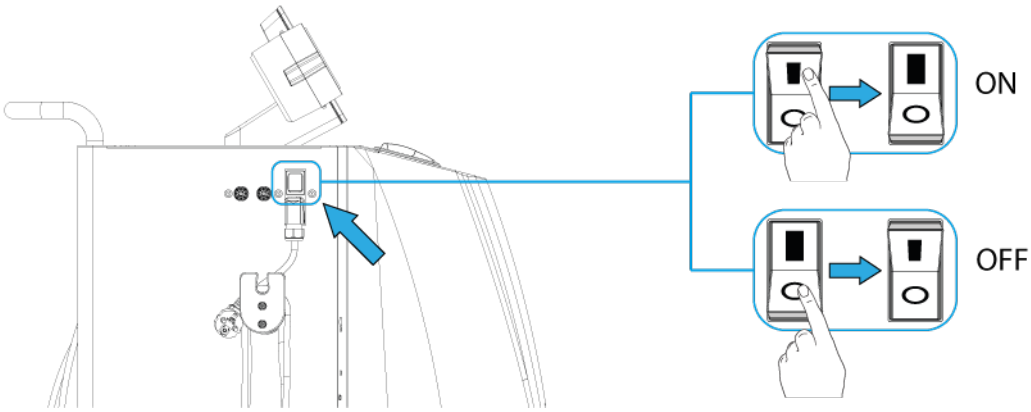


Proceed as follows:

1. *Go to the left side of the equipment.*
2. *Connect the power cable to the mains via a grounded socket.*

12 POWER ON/OFF

The equipment can be powered on and off using the main switch located on the left side of the charging station.



To turn on the equipment, set the main switch to the **I** (ON) position.

To turn off the equipment, set the main switch to the **O** (OFF) position.

WARNING

Do not disconnect the equipment from the mains by unplugging the power cable either from the equipment or from the socket.

12.1 Stopping the Equipment for Long Periods

If you need to stop the equipment for a long period of time, follow the instructions below.

Proceed as follows:

1. *Disconnect the equipment from the mains.*
2. *Place the provided cover over the equipment.*
3. *Store the equipment in a safe place, not exposed to outside weather conditions.*

13 SETTING UP BEFORE USING

This chapter describes the maintenance operations required for setting up the equipment.

13.1 How to Fill the Internal Tank

The internal tank in the device is empty upon delivery.

NOTICE **You must carefully read and understand this Operating Manual to perform the provided instructions correctly.**

Proceed as follows:

1. Turn on the equipment.
2. Launch the software function for the internal tank filling by selecting **ADDITIONAL FUNCTIONS** in the menu.

NOTICE **Be sure to select the specific filling function for the gas that you intend to recharge.**

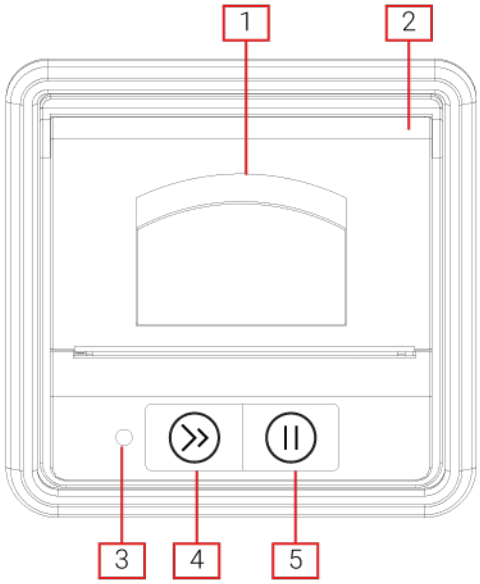
3. Follow the on-screen instructions.

For more information see the software's Operating Manual.

13.2 How to Load the Paper into the Printer

The equipment can be fitted with a thermal printer.

INFORMATION *The thermal printer is an optional tool that can be purchased separately and must be installed by qualified personnel.*



1. *Paper compartment opening lever*
2. *Paper compartment cover*
3. *Printer Status LED* - **GREEN**
4. **PAPER FEED** *button*
5. **ON/OFF** *button*

The buttons on the printer have the following functions:

Key	Name	Function
	PAPER FEED	It allows the paper to come out.
	ON/OFF	It allows setting the printer on on-line/off-line mode.

The printer is equipped with a green LED that indicates its status:

- **Solid on:** *printer on-line*
- **Flashing:** *the printer is off-line or there is no paper*
- **Off:** *printer off-line*

The printer is automatically on-line when the equipment is switched on.

Press  if the status LED indicates that the printer is off-line.

Using the printer it is possible to print a report containing the following information:

- *company data*
- *vehicle data*
- *customer data*
- *operations carried out*

 **For more information see the software's Operating Manual.**

You must fill the printer with paper before use.

Proceed as follows:

1.Lift the paper compartment opening lever lightly until the corresponding cover locks.

2.Place the paper roll into the specific compartment.

3. Close the compartment by pressing lightly on the cover and leaving a slip of paper sticking out.

4. Press  to make sure the paper has been inserted correctly.

5. Repeat the operations indicated above if the paper does not come out.

13.3 *Initial Configuration*

The first time the equipment is turned on, it requires you to select the software's display language.

Once selected, the configuration wizard is started.

This procedure allows you to:

- *configure the communication between the equipment and the workshop's Wi-Fi network;*
- *set the system date and time;*
- *enter the workshop data;*
- *select the type of refrigerant used;*
- *etc.*

 **For more information see the software's Operating Manual.**

13.3.1 Demo Mode

The equipment includes a demo mode (**Demo**).

The equipment can be used in **Demo** mode for a **maximum of 15 power on-power off cycles**.

INFORMATION

The equipment locks automatically at the end of the cycle and can no longer be used.

To unlock the equipment, you must activate the product online.

Alternatively, the equipment can be activated manually, requesting the unlock code via TEXA Service Code.

14 COMMUNICATION

The charging station's controller integrates the following:

- *Wi-Fi module*
- *Bluetooth module*

The charging stations also have a USB connector.

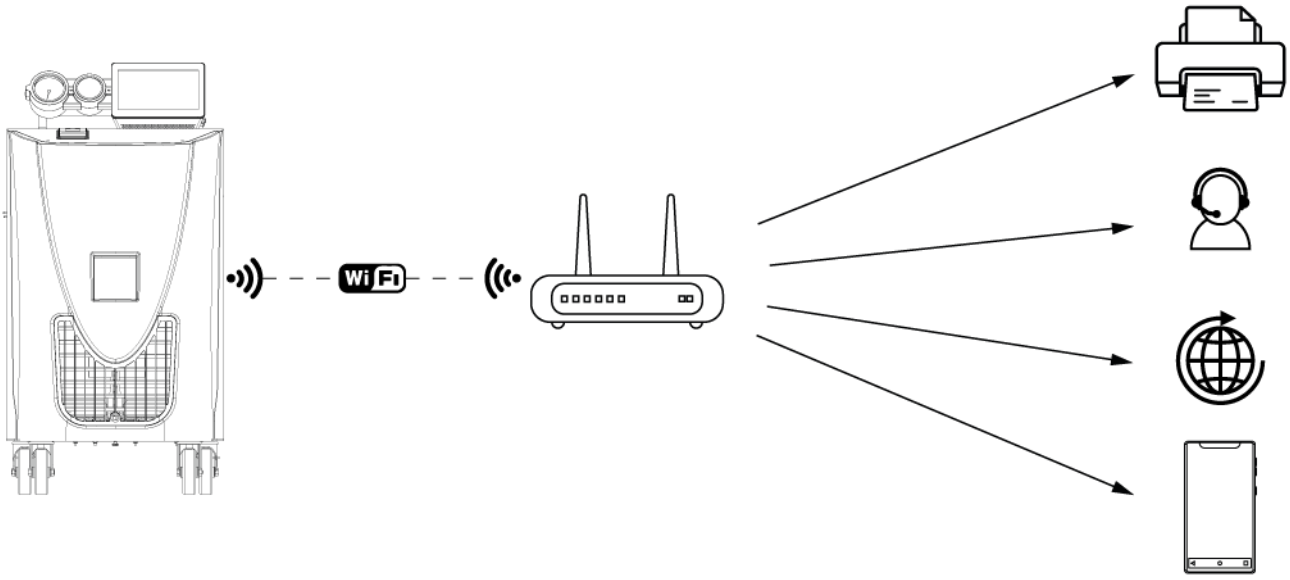
14.1 Wi-Fi

The Wi-Fi module built into the controller allows connecting the charging station to the workshop's Wi-Fi network.

The Wi-Fi connection to the workshop's network allows the following:

- *connection to the printers in the network, to print reports in A4 format;*
- *download of updates;*
- *remote assistance;*
- *connection with smartphone in which the* **R^{3}AC** *Mobile app is installed.*

The connection to the Wi-Fi network must be configured through the software functions.



Proceed as follows:

1. *Turn on the charging station.*
2. *Access the communication configuration functions.*
3. *Start the configuration of the Wi-Fi communication.*
4. *Follow the on-screen instructions.*

INFORMATION

In order to print in A4 format, the charging station and the printer must be connected to the same Wi-Fi network.

To download updates and use the remote assistance functions, the Wi-Fi network must have an Internet connection.

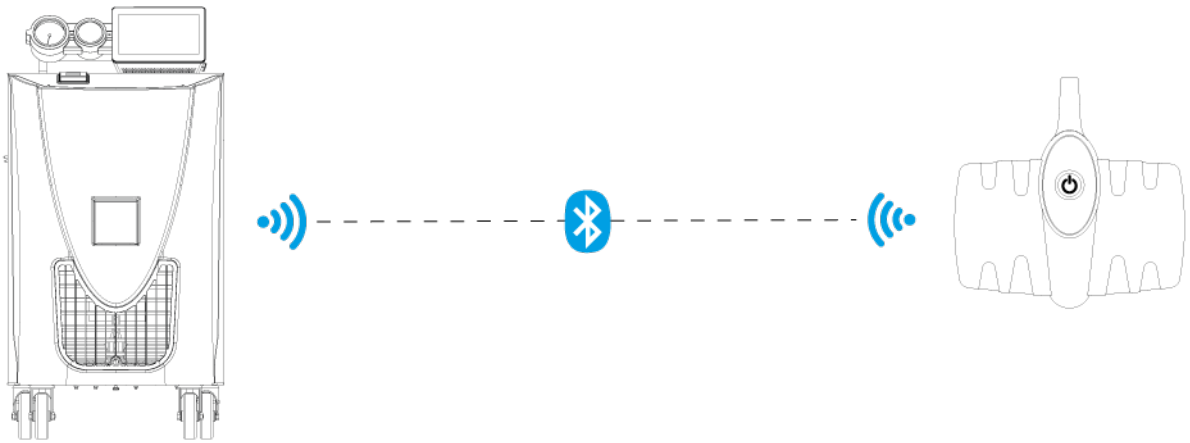
For more information see the software's Operating Manual.

14.2 *Bluetooth*

The Bluetooth module built into the controller allows connecting the charging station to accessories such as:

- *A/C system efficiency testing kit;*

The Bluetooth connection must be configured through the software functions.



Proceed as follows:

1. *Turn on the charging station.*
2. *Access the communication configuration functions.*
3. *Start the configuration of the Bluetooth communication.*
4. *Follow the on-screen instructions.*

For more information see the software's Operating Manual.

14.3 *USB*

The USB connector located on the right side of the charging station allows you to:

- *access the manuals contained in the provided USB flash drive;*
- *back up the reports of the services carried out and of the entire system;*
- *install updates in off-line mode if the workshop does not have a Wi-Fi network with an Internet connection.*

NOTICE **Do not connect devices to the charging station via the USB connector.**

15 User Instructions

The software in the charging stations allows selecting the vehicle to work on choosing among the ones in the database and launching all the functions required in order to recharge and check the vehicle's A/C system.

CAUTION

Monitor the equipment at all times during the operating phases, making sure to wear appropriate personal protective equipment.

Proceed as follows:

1. *Place the charging station near the vehicle you wish to work on.*
2. *Power the charging station and turn it on.*
3. *Select the type of service that must be carried out.*
4. *Follow the on-screen instructions.*

The software provides on-screen indications required to carry out the various operations and warns if errors occur during the phases.

For more information see the software's Operating Manual.

16 UPDATING

The firmware and software can be updated via:

- *Wi-Fi*
- *USB*

NOTICE **Keep the charging station on and powered as long as needed for the update to complete.**

The update via Wi-Fi requires connecting the charging station to the Internet through the workshop's Wi-Fi network.

If the workshop does not have a Wi-Fi network with access to the Internet, the update can be performed off-line using the **SW R3AC UPDATE** software.

This software allows downloading the software and/or firmware update pack from the Internet and copy it into a USB flash drive.

In this case, you need to use a USB flash drive with at least 8 GB of available space to download the update files.

INFORMATION *We recommend using the provided USB flash drive.*

Proceed as follows:

1. *Download the software from the* **ROTARY** *website.*
2. *Install the software on a PC equipped with an Internet connection.*
3. *Connect the provided USB flash drive to the PC.*
4. *Launch the software.*
5. *Wait for the update to be downloaded onto the USB flash drive.*
6. *Disconnect the USB flash drive from the PC.*
7. *Turn on the charging station.*
8. *Connect the USB flash drive to the charging station.*
9. *Launch the software update function.*
10. *Wait for the update to complete.*

For more information see the software's Operating Manual.

17 MAINTENANCE

This chapter describes the maintenance operations required for the device.

In general:

- *carefully follow the instructions provided in this manual;*
- *keep the product clean using a slightly damp cloth (do not use solvents or corrosive products);*
- *periodically inspect the electrical connections making sure they are in good conditions;*
- *immediately replace any damaged cables;*
- *only use original spare parts or spare parts approved by the manufacturer;*
- *contact your retailer for any extraordinary maintenance.*

CAUTION

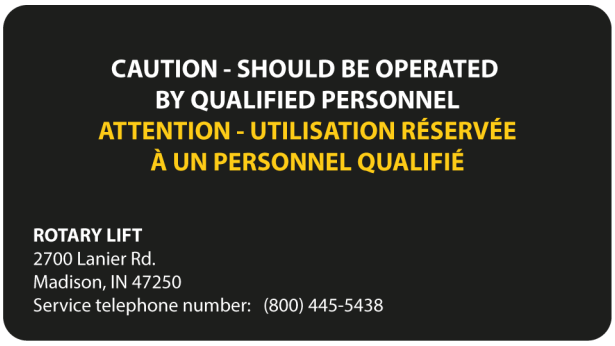
The use of spare parts and accessories that are not approved by the manufacturer may compromise the equipment's efficiency and safety.

- **Carefully follow the instructions provided in this manual.**
- **Only use spare parts and accessories that are approved by the manufacturer.**

INFORMATION

For further help, contact your Retailer or the Technical Assistance service.

On the top of the service bulkhead there is a plate with all the information needed to contact the Technical Assistance Service.



17.1 Ordinary Maintenance

Scheduled maintenance is made up of a series of operations that must be carried out periodically.

Specific messages will appear on the screen each time a maintenance operation has expired and needs to be carried out.

Maintenance operation	**Frequency**
Dehydrator Filter Replacement	When prompted by the device.
Mechanical Filter Replacement	Along with the dehydrator filter replacement.
Vacuum pump oil replacement	When prompted by the device.
Fuse Replacement	If broken.
Printer Paper Replacement	Each time the paper runs out.

⚠ WARNING

Unless indicated otherwise, the maintenance operations that require you to open the service door / bulkheads and to remove parts of the equipment must be carried out with the power cable disconnected from the mains.

When carrying out maintenance operations that require the equipment to be powered:

- **operate on the indicated components only;**
- **avoid contact with live components (e.g. electrical wirings).**

17.1.1 Dehydrator Filter Replacement

The filter must be replaced **when you are prompted to do so by the device**.

CAUTION

There could be accidental refrigerant leaks while replacing the filter.

Carefully follow the instructions provided below to avoid the refrigerant from getting into the atmosphere.

Wear appropriate protective glasses and gloves when replacing the filter.

You must carefully read and understand this Operating Manual to perform the provided instructions correctly.

Before replacing the filter you must reset the "**filter counter**" using the appropriate software function.

Proceed as follows:

1. *Switch on the equipment.*
2. *Select* **ADDITIONAL FUNCTIONS -> RESET COUNTER -> FILTER REPLACEMENT**.
3. *Follow the on-screen instructions.*

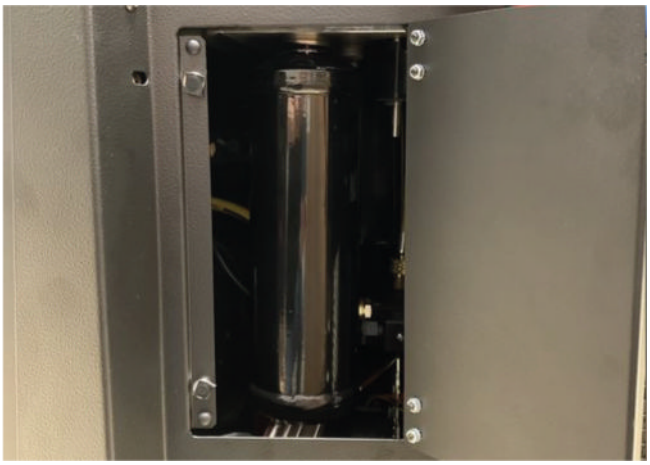
CAUTION

Do not open the equipment's service door until it is specifically indicated on the screen.

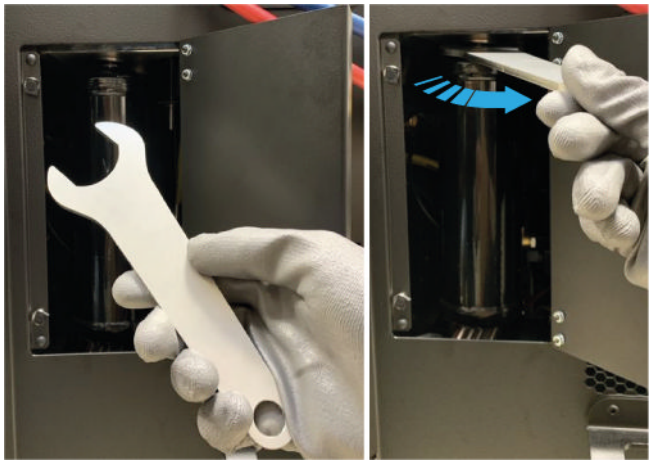
After resetting the counter you can replace the filter.

Proceed as follows:

1. Go to the right side of the equipment.
2. Locate the service door.
3. Lift the opening lever.
4. Turn the lever clockwise.
5. Open the service door.

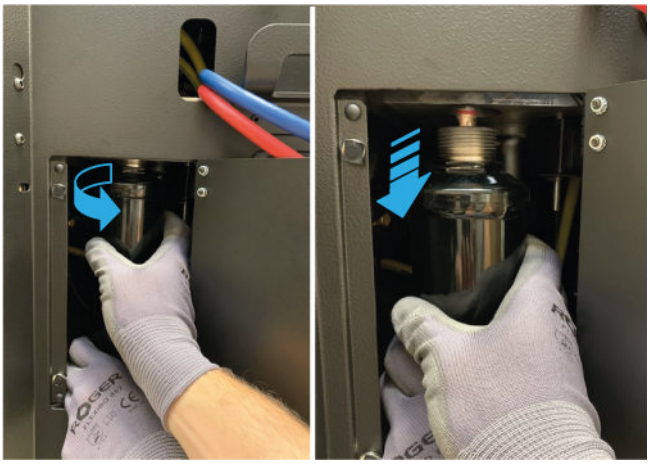


6. Use the tool provided with the equipment to loosen the filter.

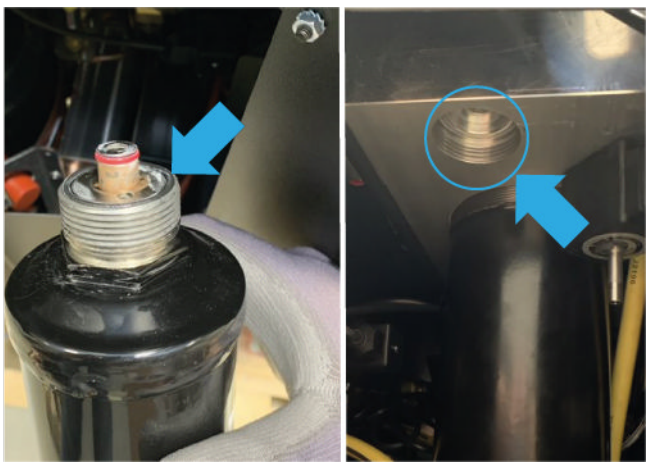


INFORMATION *As an alternative to the provided tool, you can use a strap/chain wrench of a suitable size.*

7. Manually unscrew the filter completely, being careful to hold it throughout the operation.
8. Pull out the old filter.



9. Make sure the O-ring is positioned correctly on the new filter.
10. Install the new filter: using the supplied tool, tighten it at a torque of 15 N m / 11.06 lbf·ft.



11. Close the service door.
12. Complete the operation following the instructions on the screen.

17.1.2 Mechanical Filter Replacement

The mechanical filter when the dehydrator filter is replaced.

CAUTION

There could be accidental refrigerant leaks while replacing the filter.

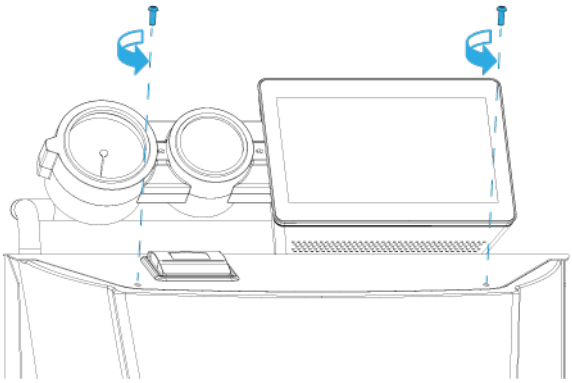
Carefully follow the instructions provided below to avoid the refrigerant from getting into the atmosphere.

Wear appropriate protective glasses and gloves when replacing the filter.

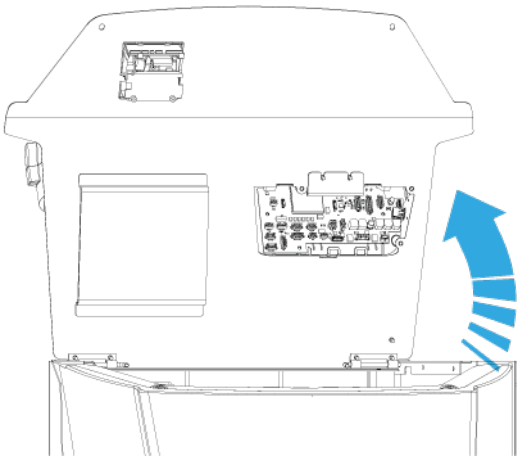
You must carefully read and understand this Operating Manual to perform the provided instructions correctly.

Proceed as follows:

1. Stand in front of the equipment.
2. Unscrew the two screws that close the front panel.



3. Gently lift the panel until it is completely open.



CAUTION

The panel is not fitted with a lock to keep it open.

Failure to open the panel completely to its stop position may cause it to fall forward, exposing the operator to the risk of crushing.

Always open the panel completely, until reaching its stop position.

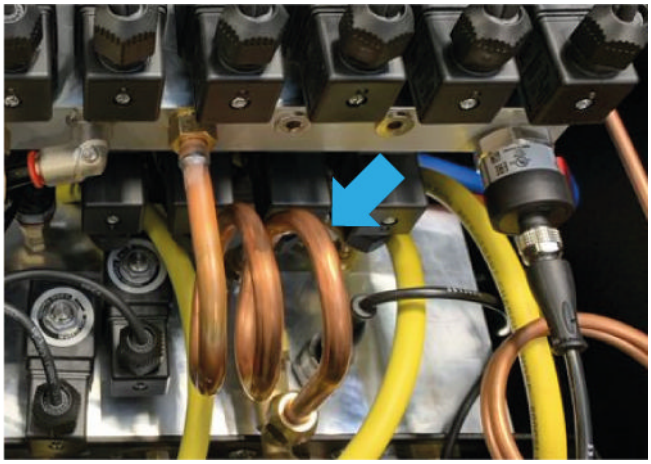
NOTICE

The panel has a maximum opening angle that allows easily accessing the inside of the equipment.

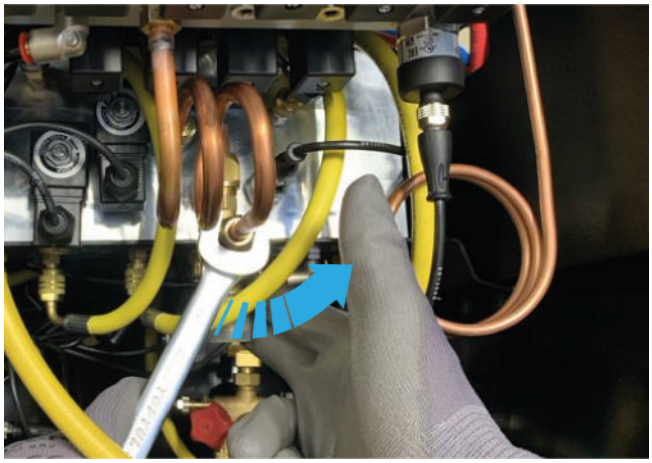
Forcing the panel beyond its maximum opening angle may damage the hinges that hold it and the wirings that connect the controller to the rest of the equipment.

Do not force the panel beyond its maximum opening angle.

4. Identify the copper pipe that connects the manifold to the expansion valve.



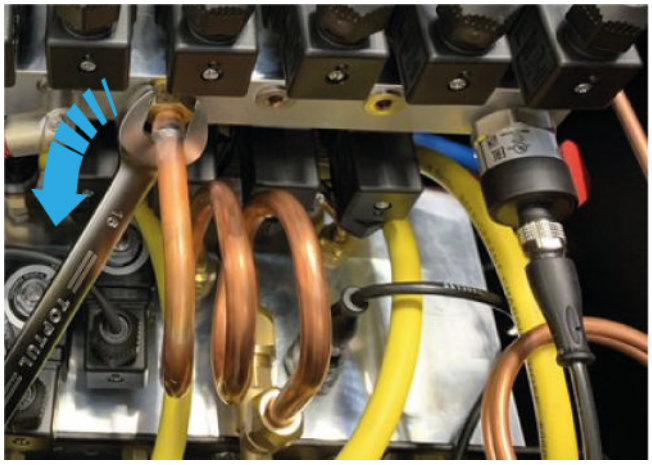
5. Use an open-end wrench no.19 to unscrew the nut that connects the copper pipe to the expansion valve.



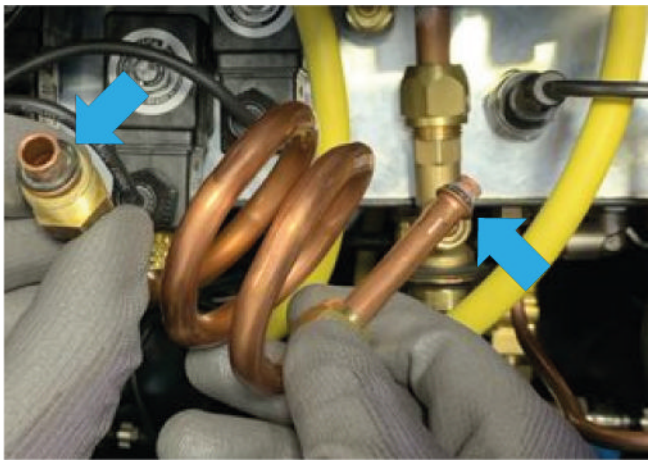
NOTICE

Hold the expansion valve throughout the operation, so as to oppose the torsion and avoid damaging the valve.

6. Use an open-end wrench no.16 to unscrew the nut that connects the copper pipe to the manifold.

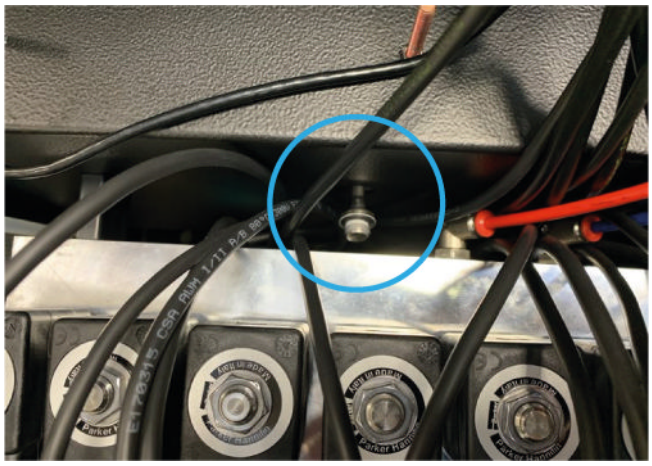


7. Remove the copper pipe.Replace the O-rings if they appear to be worn out.



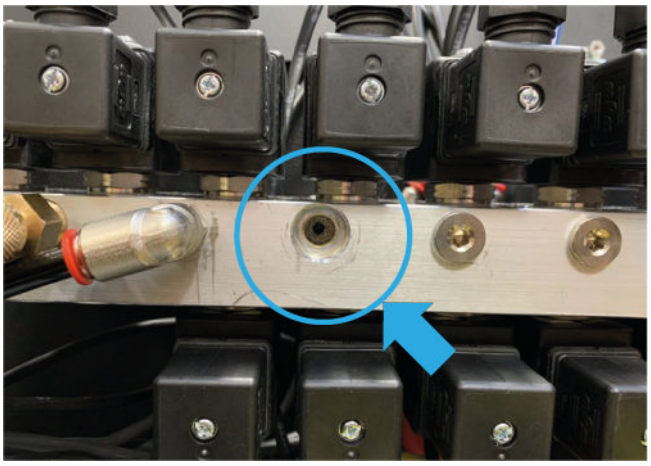
8. Stand behind the equipment.

9. Use a magnetic hexagonal wrench no.5 to unscrew and remove the mechanical filter cap.

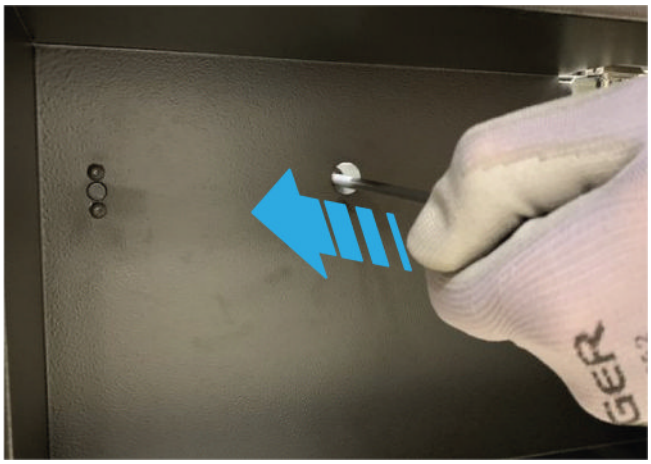


INFORMATION

Standing in front of the manifold, you can see the mechanical filter in its housing.



10. Insert a non-sharp tool of a suitable diameter on the back of the manifold through the specific hole behind the equipment.
11. Push until the mechanical filter is ejected from the front side of the manifold.

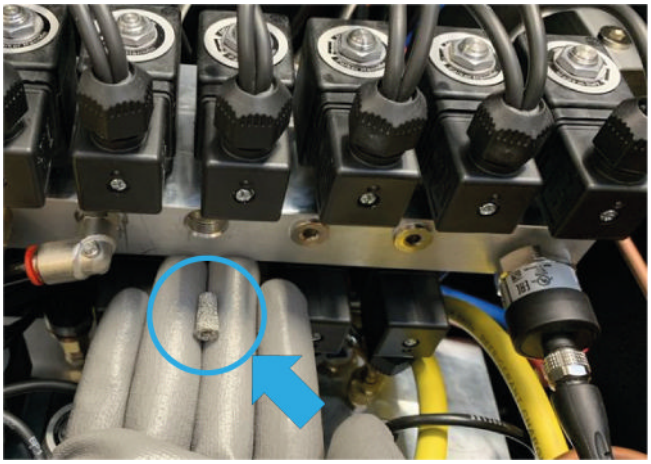


NOTICE

Damages to the manifold or residues from the old mechanical filter, caused by an improper removal, may compromise the proper operation of the equipment.

Be careful not to damage the manifold or the filter that must be replaced.

12. Fully insert the new mechanical filter inside its housing in the manifold.



NOTICE

The mechanical filter is cone-shaped and can be inserted in its housing only with the narrow part towards the manifold.

- **Make sure the filter is positioned properly.**
- **Do not force the filter inside its housing.**

13. Screw the mechanical filter cap back on, tightening with a torque of 8 N m / 5.9 lbf·ft.
14. Reposition the copper pipe.
15. Use the open-end wrenches no.16 and no.19 to tighten the manifold side and expansion valve side nuts, tightening with a torque of 12 N m / 8.8 lbf·ft.
16. Gently lower the front panel until it is completely closed.
17. Screw the two screws that close the front panel.

17.1.3 How to Replace the Vacuum Pump Oil

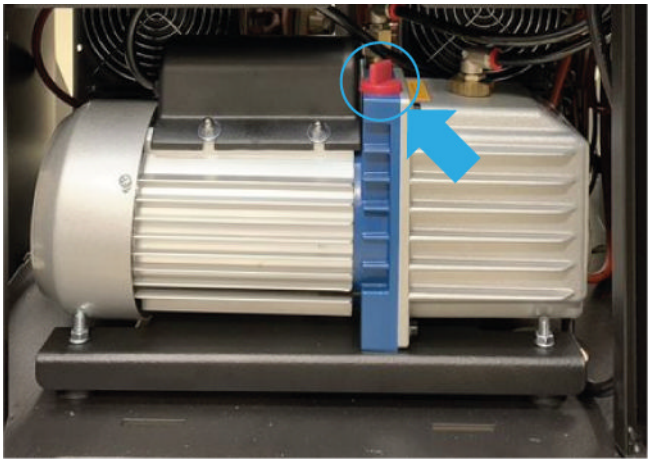
The oil in the vacuum pump must be replaced **when you are prompted to do so by the device**.

You must carefully read and understand this Operating Manual to perform the provided instructions correctly.

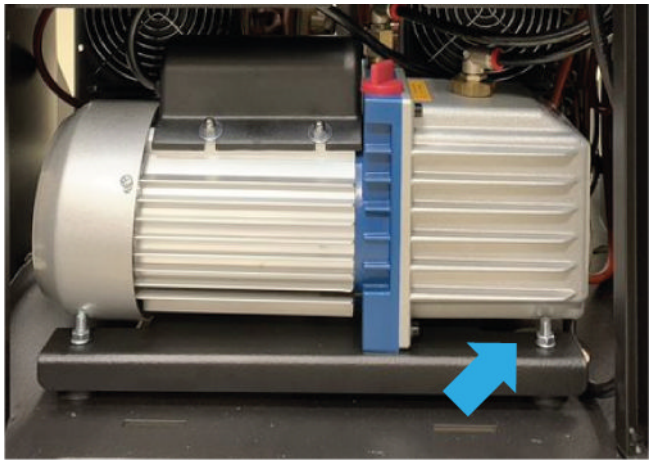
Proceed as follows:

1. Stand behind the equipment.
2. Locate the service door.
3. Lift the opening lever.
4. Turn the lever clockwise.
5. Open the service door.

6. Unscrew the oil filler cap.



7. Place a suitable container to recover waste oil under the oil drain hole.
8. Unscrew the oil filler cap.



INFORMATION *The oil drain cap is placed under the equipment, near the pump oil level sight.*

9. Wait for all the oil to drain from the pump.
10. Screw the oil drain cap back on.
11. Fill with new oil.

INFORMATION *The total amount of oil to insert is approximately 370 ml / 12.51 fl. oz.*

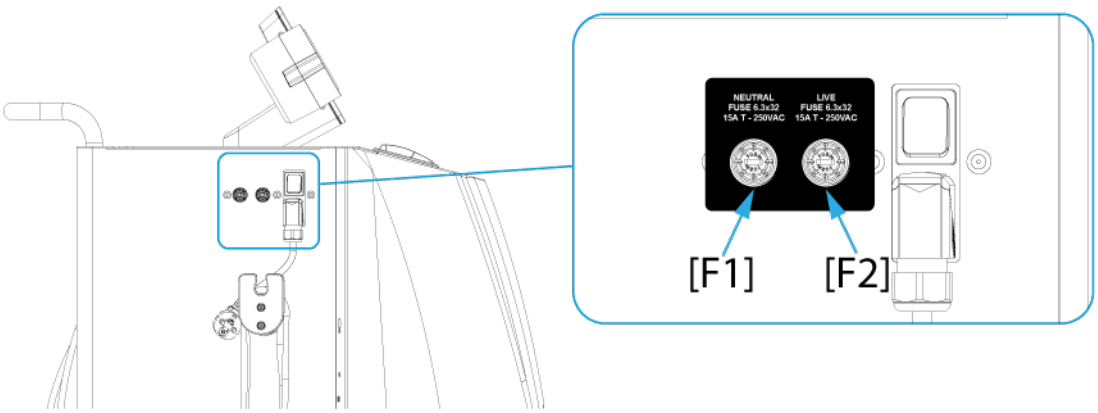
The oil level must reach approximately half the pump oil level sight.

12. Screw the oil filler cap back on.
13. Close the door.
14. Power and turn on the equipment.
13. Perform the **Pump Time Counter Reset**.

NOTICE **Collect the recovered oil and dispose of it according to the regulations in force.**

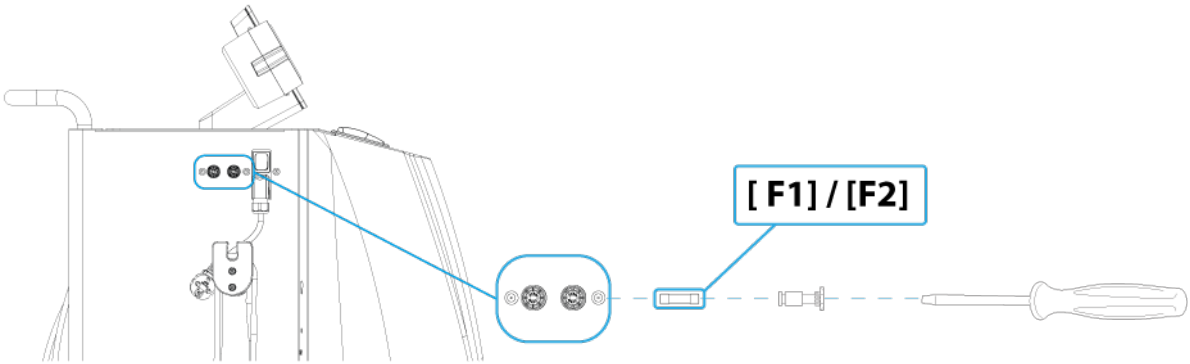
17.1.4 Fuse Replacement

If blown, the cartridge fuses [F1] and [F2] must be replaced with other fuses having the same technical features:



- **[F1]:** *Time-delay fuse 6.3x32 15A - UL198L*
- **[F2]:***Time-delay fuse 6.3x32 15A - UL198L*

INFORMATION *The indicated procedure is the same for both fuses.*



Proceed as follows:

1. *Pull out the fuse housing.*
2. *Remove the blown fuse.*
3. *Replace the fuse with one that has the same technical features.*
4. *Reinsert the fuse housing.*

17.1.5 Replacing the Paper in the Printer

Follow the instructions provided in the chapter **Replacing the Paper in the Printer.**

17.2 *Periodical Checks*

In order to guarantee proper operation of the device we recommend checking on a regular basis the parts that are the most subject to wear.

Parts subject to wear	**Check**
Service hoses	Make sure there are no cuts, scratches or bulges.
Quick fittings	Make sure there are no signs of wear and that the hoses do not harden during use. Make sure the service hoses are connected properly. Make sure there are no cuts or scratches on the O-rings.
DRAIN bottle	Make sure they are clear and not damaged.
Wheels	Make sure the brakes are working properly.
Power supply cable	Make sure there are no cuts, scratches or burns.

17.3 *Periodical Safety Checks*

In order to guarantee the correct operation of the device, carry out periodical checks on the safety devices.

The safety valve and safety pressure switch must be visually checked to verify that they are not damaged in order to guarantee that they are working properly.

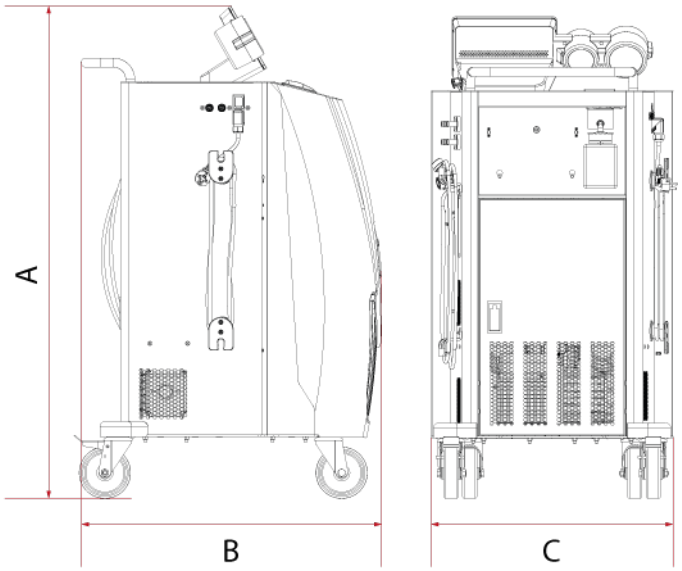
⚠ WARNING

A periodic inspection of the operation of the safety devices (Safety Pressure Switch and Safety Valve) and of the integrity of the refrigerant liquid receiver must be carried out at intervals defined by the national regulations in force in the country in which the equipment is being used.

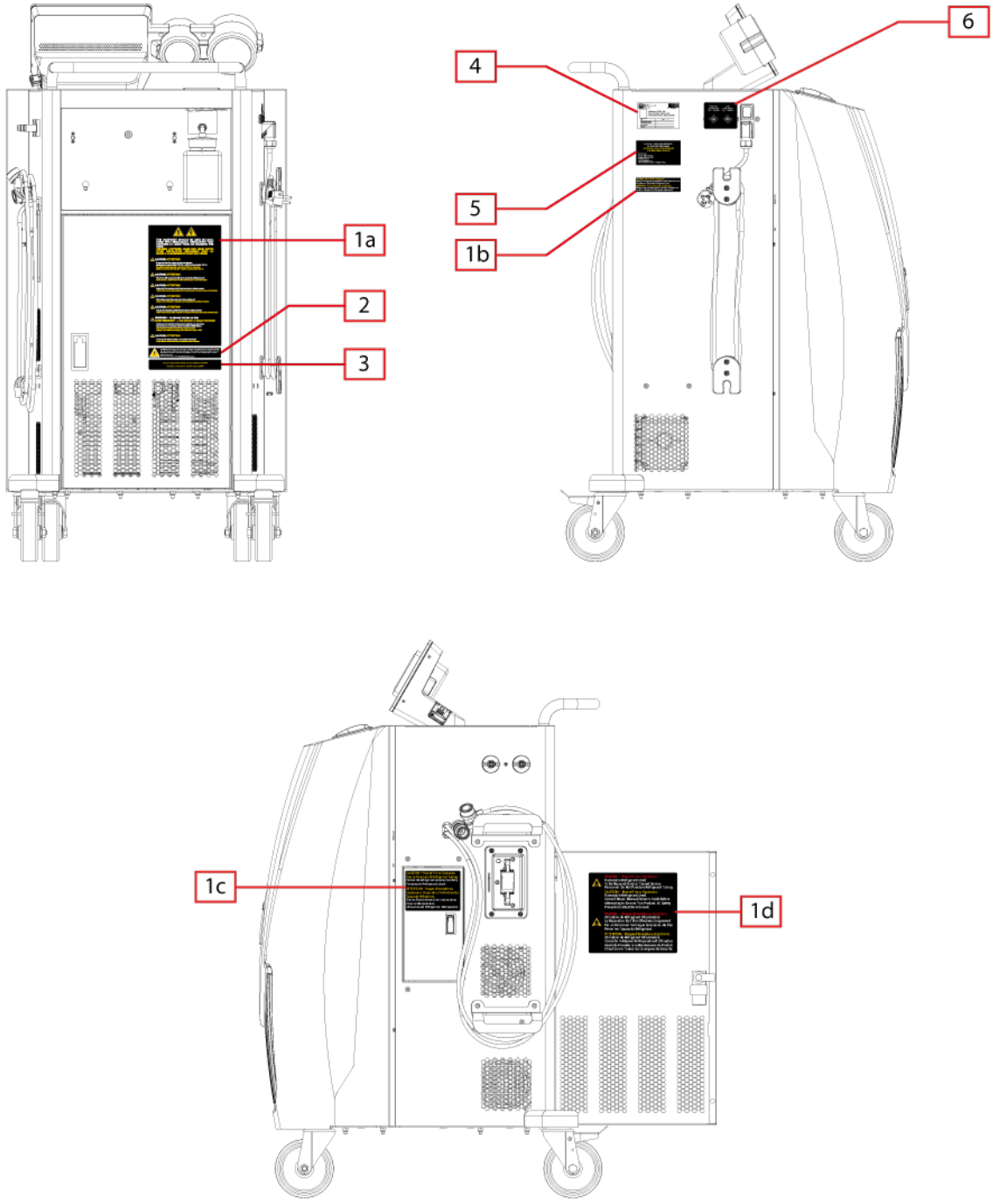
18 TECHNICAL FEATURES

Builder	TEXA S.p.A.
Brand	ROTARY
Model	R^3AC60
Display	10.1" TFT; 1024x600 pixel; 400CD Anti-glare
GPU	Qualcomm© Adreno™ 308 Graphics Processing Unit (GPU) with 64-bit addressing
Touch	Capacitive touch panel, 12C interface
CPU	• *SC200R Series Snapdragon QCM2150 Quad-core ARM Cortex-A53 64-bit CPU @ 1.3 Ghz* • *STM32F103 - ARM Cortex M3 32-bit CPU*
RAM	2 GB LPDDR3
Hard disk	16 GB eMMC
Operating system	Android 10.0
Audio peripheral devices	1 speaker CES-703116-28PM 8 ohm 2 W
Wi-Fi	802.11a/b/g/n, 150 Mbps, STA/AP/P2P 2402-2480 MHz 5 GHz
Bluetooth	2.1+EDR/3.0/4.1 LE/4.2 BLE 2400÷2483,5 MHz
RF power	20 dBm
I/O peripheral devices	USB 2.0 x1
Primary battery	3 V CR2032
Secondary battery	NiMh 2,4 V - 600 mAh
Fluid / Group	R1234yf / 1
Electronic refrigerant scale (Precision)	± 10 g / ± 0.35 oz
Recovered oil electronic scale (Resolution)	1 g / 0.035 oz
Pressure transducer	Kl. 1.0

High Pressure (HP) gauge	Ø 100 mm / Ø 3.937 in
Low Pressure (LP) gauge	Ø 80 mm / Ø 3.149 in
Tank capacity	10 kg / 22 lb
Length of service hoses	3 m / 9.84 ft
Filter assembly	1 combined filter + mechanical filter
Compressor (airtight)	12 cc
Vacuum pump	• *100 l/m / 3.5 cfm* • *two-stage* • *final pressure: 0,03 mbar / 3 Pa*
Ambient temperature sensor (Resolution)	1 °C / 33.8 °F
Refrigerant purity	150 kg / 330 lb (SAE J2099)
Recovery efficiency	> 95 % (SAE J2788 / SAE J2843)
Maximum operating pressure (PS)	20 bar / 290 psi
Safety device calibration	20 bar / 290 psi
Power supply voltage	115 V
Frequency	60 Hz
Power	990 W
Operating temperature (TS)	5 ÷ 40 °C / 41 ÷ 104 °F
Storing temperature	- 25 ÷ 60 °C / -13 ÷ 140 °F

Sizes	 *A) 1200 mm / 47.24 in* *B) 730 mm / 28.74 in* *C) 600 mm / 26.62 in*
Weight	121 kg / 242.51 lb

19 DATA PLATE AND LABELS

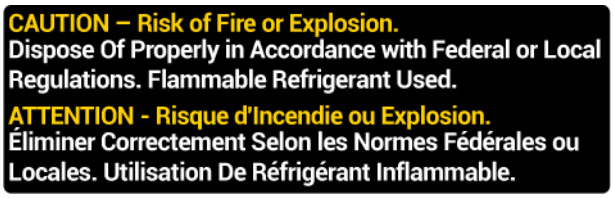


SAFETY INDICATIONS

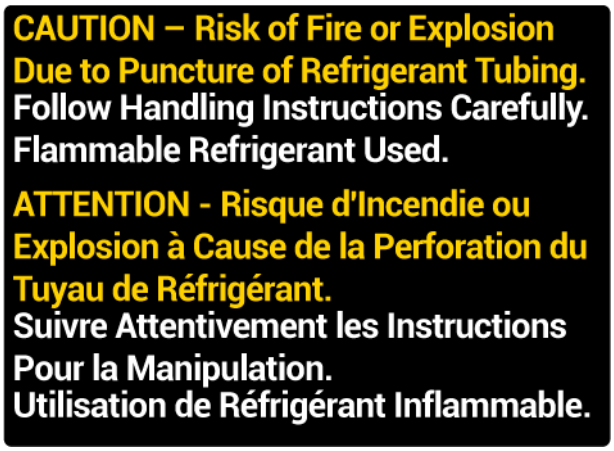
1a


THIS EQUIPMENT SHOULD BE USED IN LOCATIONS WITH MECHANICAL VENTILATION THAT PROVIDES AT LEAST FOUR AIR CHANGES PER HOUR
UTILISER L'APPAREIL DANS DES LIEUX DOTÉS D'UNE VENTILATION MÉCANIQUE AVEC AU MOINS 4 CHANGEMENTS D'AIR PAR HEURE
CAUTION ATTENTION
To reduce the risk of fire, replace only with same type fuse :
6,3x32 mm time delay and rating 125V, 15A – 6,3x32 mm fast and rating 125V, 4A.
Pour réduire le risque d'incendie, remplacer les fusibles du même type :
6,3x32 mm retardé et débit 125V, 15A – 6,3x32 mm rapide et débit 125V, 4A.
CAUTION ATTENTION
Risk of Injury. This equipment should only be operated by certified personnel
Risque de lésion. L'appareil doit être utilisé uniquement par un personnel qualifié
CAUTION ATTENTION
Moving parts. Do not operate unit with front hood and rear hatches removed
Parties mobiles. Ne pas utiliser l'appareil si le couvercle avant et les portes arrière ont été enlevées
CAUTION ATTENTION
Risk of electric shock. Disconnect power before servicing unit
Risque de chocs électriques. Débrancher avant de procéder à l'entretien de l'appareil
CAUTION ATTENTION
Hot parts. Do not operate unit with front hood and rear hatches removed
Parties chaudes. Ne pas utiliser l'appareil si le couvercle avant et les portes arrière ont été enlevées
WARNING – TO REDUCE THE RISK OF FIRE
AVERTISSEMENT – POUR RÉDUIRE LE RISQUE D'INCENDIE
Avoid the use of an extension cord because the extension cord may overheat.
However if you use an extension cord, the cord shall be 14AWG minimum
Éviter d'utiliser une rallonge car il pourrait y avoir un surchauffe
Toutefois, si vous utilisez une rallonge, celle-ci doit être au moins 14 AWG
CAUTION ATTENTION
Do not use in the vicinity of spilled or open containers of gasoline
Ne pas utiliser à proximité des fuites ou collecteurs ouverts d'essence

1b


CAUTION – Risk of Fire or Explosion.
Dispose Of Properly in Accordance with Federal or Local Regulations. Flammable Refrigerant Used.
ATTENTION - Risque d'Incendie ou Explosion.
Éliminer Correctement Selon les Normes Fédérales ou Locales. Utilisation De Réfrigérant Inflammable.

1c


CAUTION – Risk of Fire or Explosion Due to Puncture of Refrigerant Tubing.
Follow Handling Instructions Carefully.
Flammable Refrigerant Used.
ATTENTION - Risque d'Incendie ou Explosion à Cause de la Perforation du Tuyau de Réfrigérant.
Suivre Attentivement les Instructions Pour la Manipulation.
Utilisation de Réfrigérant Inflammable.

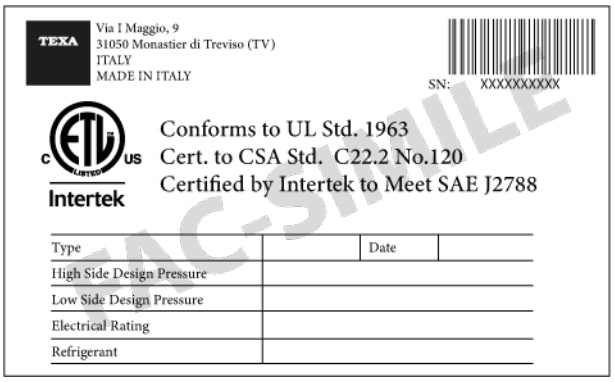
1d


DANGER: – Risk of Fire or Explosion.
Flammable Refrigerant Used.
To Be Repaired Only by Trained Service Personnel. Do Not Puncture Refrigerant Tubing.
CAUTION – Risk of Fire or Explosion.
Flammable Refrigerant Used.
Consult Repair Manual/Owner's Guide Before Attempting to Service This Product. All Safety Precautions Must Be Followed.
DANGER: – Risque d'Incendie ou Explosion.
Utilisation de Réfrigérant Inflammable.
La Réparation Doit Être Effectuée Uniquement Par un Personnel Technique Spécialisé. Ne Pas Percer les Tuyaux du Réfrigérant.
ATTENTION - Risque d'Incendie ou Explosion.
Utilisation de Réfrigérant Inflammable.
Consulter le Manuel de Réparation/d'Utilisation Avant de Procéder à la Maintenance du Produit.
Il Faut Suivre Toutes les Consignes de Sécurité.

2. PROPOSITION 65

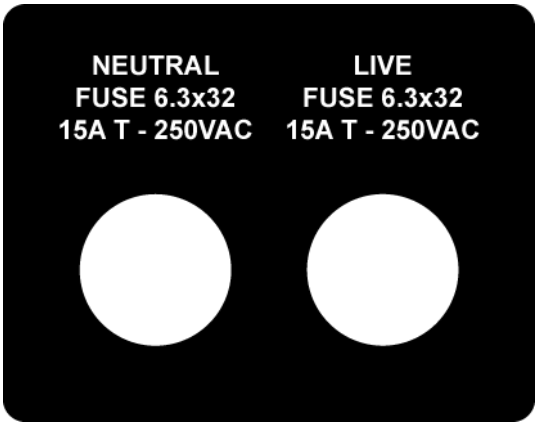
3. FCC ID

4.DATA PLATE

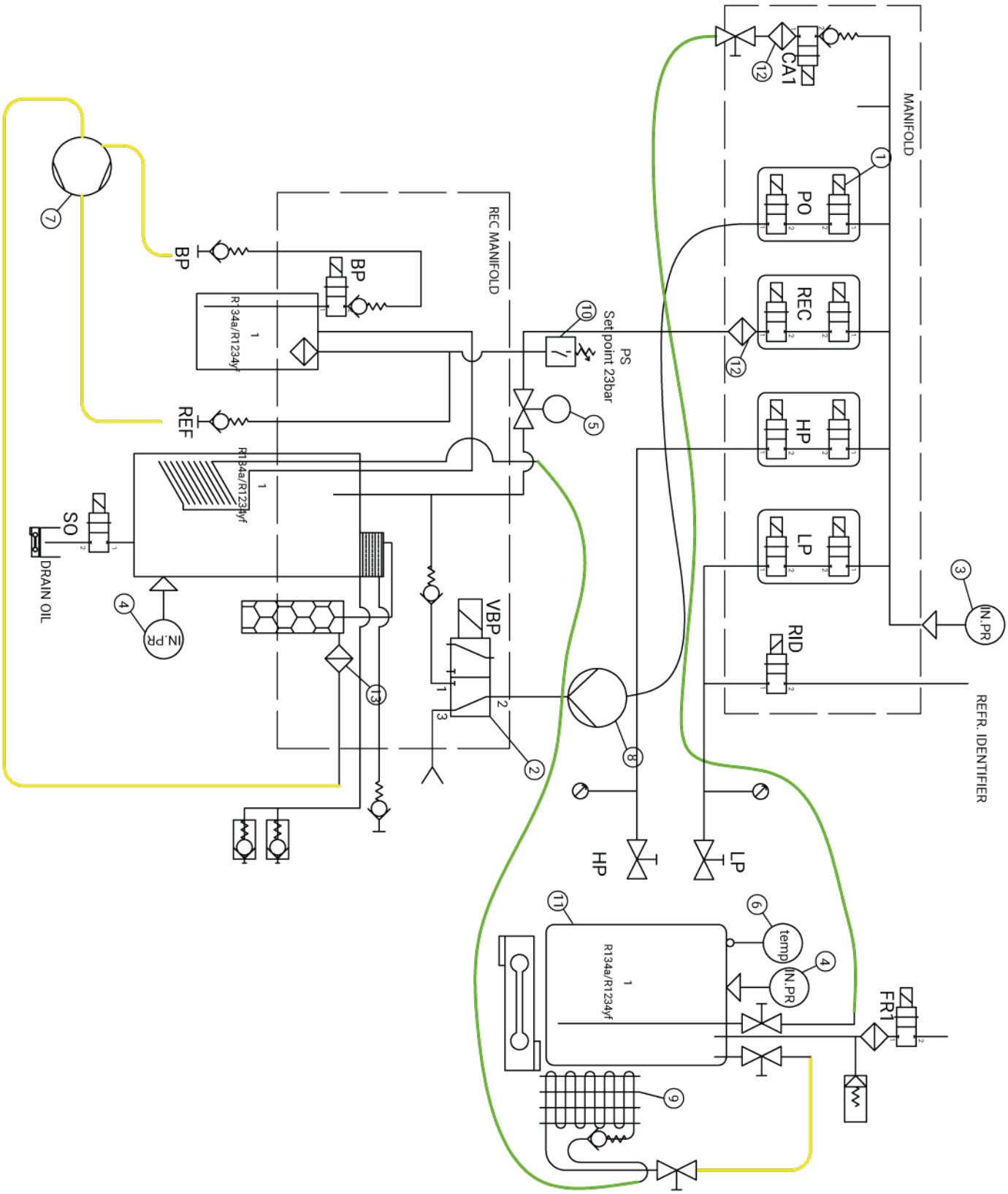


5. TECHNICAL ASSISTANCE CONTACTS

6. FUSE INDICATIONS



20 HYDRAULIC DIAGRAM



21 DISPOSAL

Below you will find information on how to properly dispose of the device.

21.1 How to Dispose of the Device

To dispose of the device proceed as follows:

1. *Ask assistance personnel to collect all the refrigerant in the internal circuit, making sure the internal storage tank is emptied as well.*
2. *Take the equipment to a waste disposal center.*

For more information on disposal see the pamphlet provided with the device.

21.2 How to Dispose of the Recycled Materials

The refrigerants that cannot be reused must be taken to the supplier of the refrigerant so it can be disposed of.

The oils removed from the systems must be taken to used oil collection centers.

22 CONTACTS

Contact Us:

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