



**APP
PLEIN AIRCON
EN**

App Advantages.

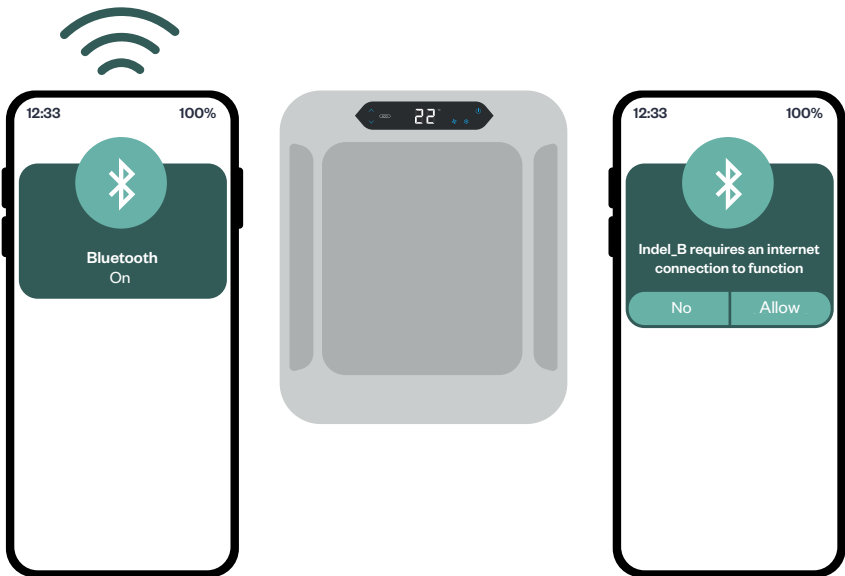
Dual Connectivity: The app manages functionality with both Bluetooth and/or Wi-Fi.

Pre-Adaptive Technology: This innovative technology adjusts the air conditioner's operation by learning the user's habits and optimizing performance based on current weather conditions or a set future destination. The app provides diagnostic and support information.



I cannot see the Plein-Aircon on my smartphone during scanning.

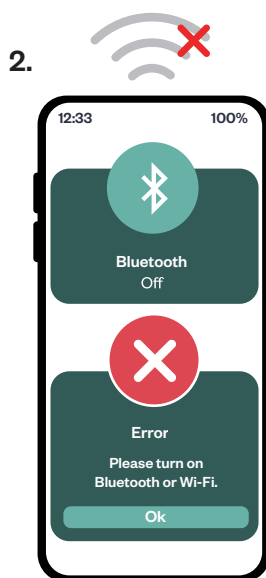
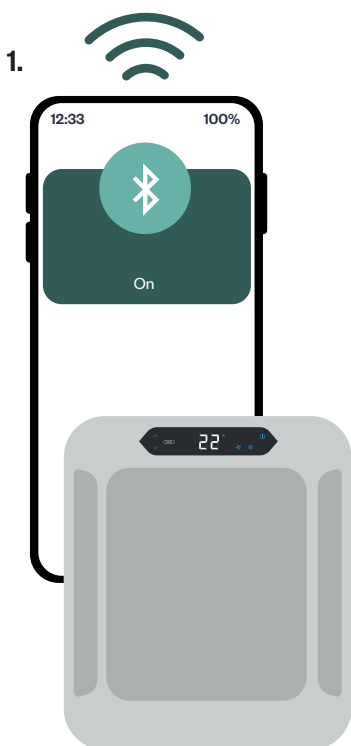
Ensure **Bluetooth is enabled** and the Plein-Aircon is turned on. Make sure the app has all necessary permissions. If the app requests Bluetooth access and the user denies it, the permission must be granted manually in the app settings.



I cannot connect to the Plein-Aircon via Bluetooth or Wi-Fi.

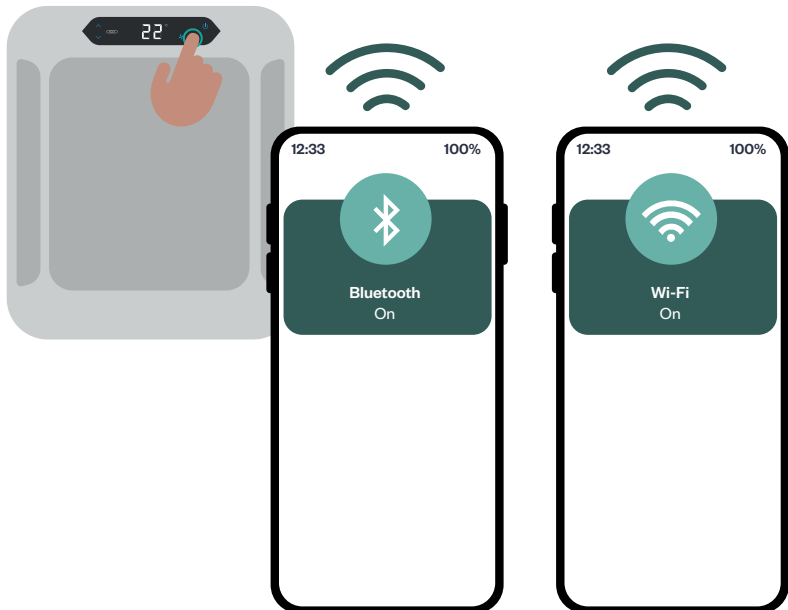
Check that the Plein-Aircon is powered on and connected to Wi-Fi, or at least reachable via Bluetooth (the smartphone should be close to the Plein-Aircon).

Verify that Bluetooth is active on your smartphone and that it is connected to a network (1). If there are issues, the app will display an error message (2) indicating if the Plein-Aircon is reachable. If this message appears, it means Bluetooth or Wi-Fi communication is not active.



I cannot send commands to the Plein-Aircon via the app.

Check connections, **ensure the Plein-Aircon responds to manual commands**, and confirm that the app is connected to the Plein-Aircon via either Wi-Fi or Bluetooth.

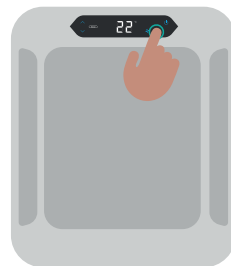


What happens if I don't have an internet connection on my smartphone.

Without an internet connection on the smartphone, you cannot log in, view the Plein-Aircon, or perform any operations via the app. Note that this refers to the smartphone's internet connection, not the Plein-Aircon's, which is optional.



The diffuser will still operate in manual mode without an internet connection.



Connecting and associating the smartphone with the Plein-Aircon.

The app allows only one account and password to be associated with the Plein-Aircon. The Bluetooth connection is designed for a single device at a time. However, you can use both Bluetooth and Wi-Fi simultaneously with the same account on different devices: one device via Bluetooth and multiple devices via Wi-Fi. To create a new account or delete an existing one, see the following FAQ.

	Account App	Smartphone
Bluetooth	UNIQUE	ONLY ONE DEVICE AT A TIME
Wi-Fi	UNIQUE	ONE OR MORE DEVICES SIMULTANEOUSLY
Bluetooth & Wi-Fi	UNIQUE	A BLUETOOTH DEVICE AND ONE OR MORE WI-FI DEVICES AT THE SAME TIME

Resetting the Plein-Aircon to associate with a new account. 1/3

Via the App (Recommended)

To reset the Plein-Aircon for association with a new account, a complete settings reset is required. Follow these steps using the app (valid for all models - Basic, RingLight, and LightBox):

Connect via the app.

Open the side menu and click “Unpair.” This will completely remove the Plein-Aircon from the app and its association with the existing account, allowing you to set it up with a new account



Resetting the Plein-Aircon to associate with a new account. 2/3

Manual (Basic & RingLight)

Access the module (1) located under the removable panel of the Plein-Aircon.

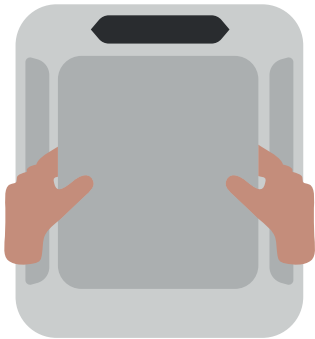
Locate the **BOOT** button (2), press and hold it for at least 5 seconds.

When you release the button (3), both the green and red LEDs will light up. The green LED will initially blink, then only the red LED will stay on.

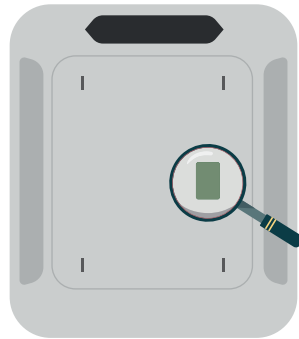
Finally, the module will restart with a steady red LED (4), indicating no association.

NOTE: The RESET button on the module only interrupts power to the chip and restarts the module.

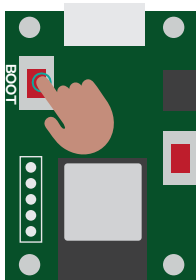
1.



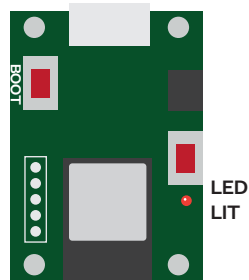
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3.



4.



Resetting the Plein-Aircon to associate with a new account. 3/3

Manual (LightBox)

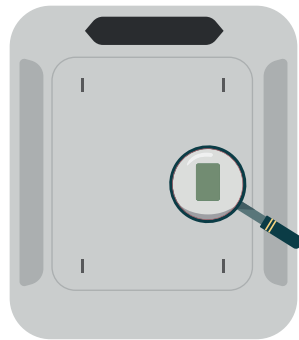
Remove the diffuser to access the module. It is recommended to contact a qualified service center for this.

Once the module is exposed, follow the same instructions as for Basic and RingLight models.

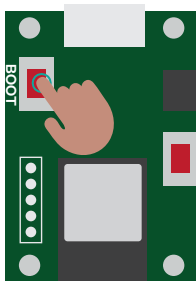
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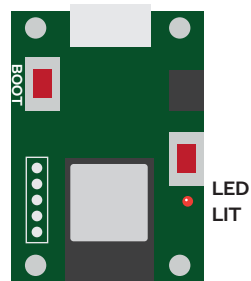
2.



3.



4.



Firmware and Updates for the Plein-Aircon

Firmware is the embedded software controlling the Plein-Aircon's operation. Firmware updates are routine and can take a few minutes, depending on the update's nature and size.

If the Plein-Aircon/App system is connected via Wi-Fi, the firmware update occurs semi-automatically (notification via the app). However, if only connected via Bluetooth, firmware updates cannot be implemented.



Operating Modes of the Plein-Aircon.

The Plein-Aircon can operate in two modes (one optional):

- **12V (standard mode):** Connected to the service battery. The air conditioner can operate both while stationary and in motion.
- **12V and 230V (optional mode):** Connected to both the service battery and the power grid (requires the 230V Smart Switch transformer, optional). The air conditioner can also operate both while stationary and in motion.

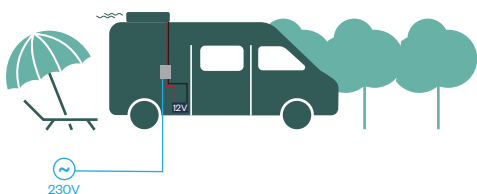
12V - stationary



12V - in motion



12V/230V - stationary with Smart Switch

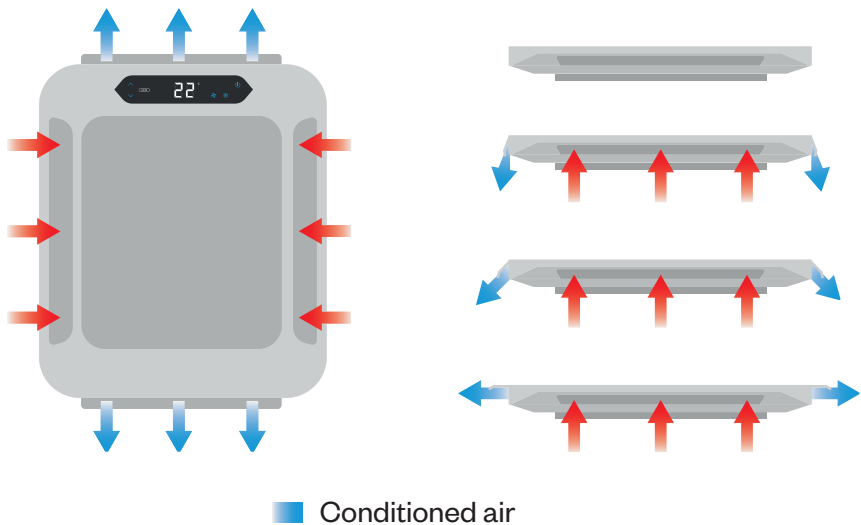


12V - in motion with Smart Switch



Air Distribution.

The treated air is distributed through two openings inside the vehicle, with the ability to direct the flow using manually adjustable deflectors. The direction and precision of the air flow are optimized, allowing almost vertical distribution.



When is it essential to use the Plein-Aircon.

The Plein-Aircon is designed to cool and dehumidify the vehicle during hot and humid summer nights. When set to “MAX” mode immediately after turning off traditional air conditioning, it can extend its benefits throughout the day.

Night - Cooling mode



Night

HIGH-TEMPERATURE WARNING



32 °C

Humidity: 82%

DEVICE:

Plein-Aircon 12V

SUGGESTED SETTINGS:

- Mode: **COOLING**
- Temp: 24 °C
- Fan Speed: ●●●○○
- Power: **AUTO**

Day - Dehumidification mode



Day

HIGH-TEMPERATURE WARNING



36 °C

Humidity: 82%
UV: 4

DEVICE:

Plein-Aircon 12V

SUGGESTED SETTINGS:

- Mode: **DRY**
- Temp: 24 °C
- Fan Speed: ●●●●●
- Power: **MAX**

Improving the Efficiency of the Plein-Aircon.

To enhance the efficiency of the air conditioner:

Park the camper-van out of direct sunlight.

Keep windows closed to prevent loss of cool air and the ingress of heat and humidity.

Slightly open the secondary roof vent (if available) to reduce temperature increase due to the greenhouse effect during brief daytime stops.

Shelter from the sun



Close the windows



Partially vent the second roof hatch

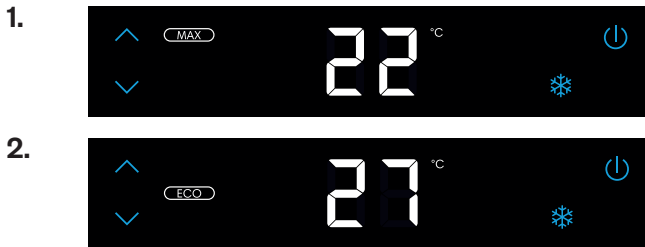


Improving the Performance of the Plein-Aircon.

To improve the air conditioner's performance:

Set an initially low temperature (1) to quickly reduce the heat accumulated from prolonged sun exposure, **but later set the temperature only a few degrees lower (2) than the external temperature (ECO mode)**. This way, the air conditioner will operate in optimal conditions, significantly reducing energy consumption while maintaining a comfortable temperature onboard without excessive coldness.






Low starting temperature



Key Factors Contributing to Comfort with the Plein-Aircon.

Perceived comfort comes not only from reduced temperature but also from reduced humidity. **The Plein-Aircon not only cools the air but also dehumidifies it, providing good thermal comfort even at high temperatures, thanks to its dehumidifying effect.**

⚠ Requesting 18°C when it is 35°C outside may be energy-intensive and inefficient.

°C outside	Mode	Consumption
> 30 °C	 target (22-25 °C)	
25-30 °C	DRY target (22-25 °C)	
⚠ > 35 °C	 target (18 °C)	

What is displayed in case of an anomaly with the Plein-Aircon.

The system diagnostics continuously monitor various parameters. If an anomaly occurs, the display shows a “wrench” icon along with a numerical code. These anomalies are classified as “WARNING” or “ERROR.”



 44: Warning example

WARNING Characteristics.

Warnings indicate unsuitable environmental conditions but do not impair the system’s operation. A “WARNING” remains displayed until the issue resolves, and the system continues to operate. The related code can be viewed by turning off the system.

ERROR Characteristics.

Errors indicate various anomalies related to electronics and components that prevent system operation. If an “ERROR” is detected during operation, the system shuts down and displays the code. Wait at least 10 seconds before attempting to restart. If the ERROR persists, it will reappear every 10 seconds with a 5-second pause. If an ERROR is detected while the system is OFF, the code will be displayed and the device cannot be turned on. If the problem is not resolved, contact Indel B support (email: info@indelb.com).



 44: Error example

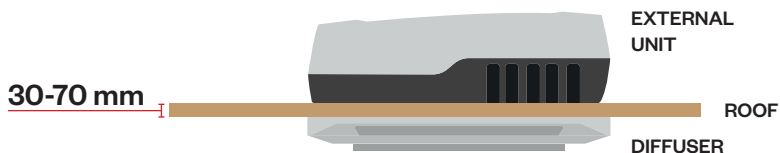
Who can perform installation and maintenance of the Plein-Aircon.

Installation, maintenance, and repair must be performed exclusively by a specialized technician according to the manufacturer's instructions.



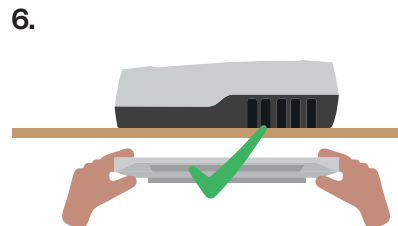
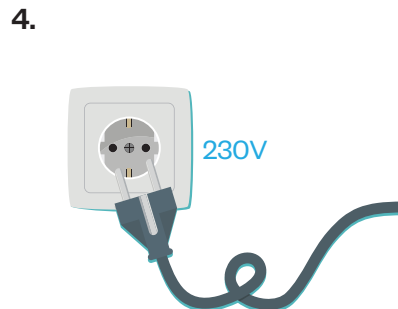
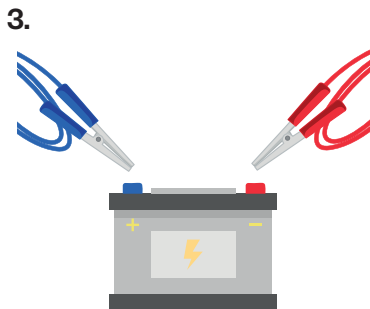
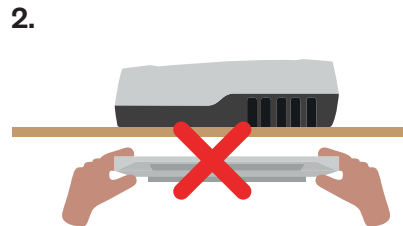
Installation Precautions.

Ensure the vehicle structure where the unit will be mounted is robust enough to support the weight and stresses generated by the system. For installation, strictly follow the instructions in the manual available for download in the app.



Maintenance of the Plein-Aircon. 1/3

Before performing maintenance that involves removing the roof group cover (1) and air diffuser (2), disconnect the vehicle battery (3) and any 230V power supply (4) to avoid contact with electrical parts.



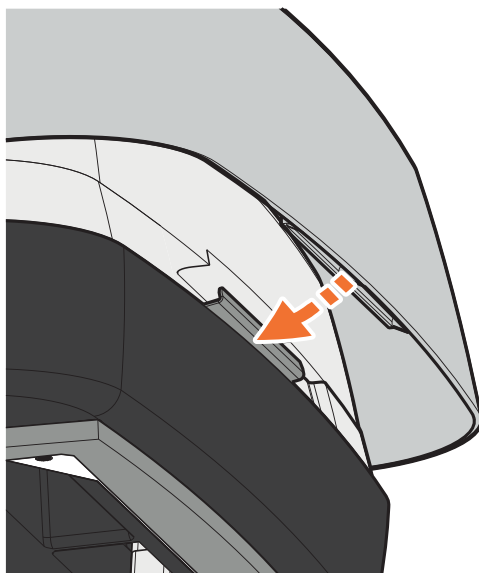
Maintenance of the Plein-Aircon. 2/3

After maintenance, **reattach the cover ensuring it is properly secured at the front.**

1.



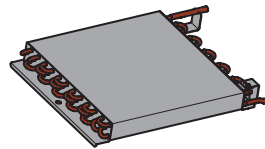
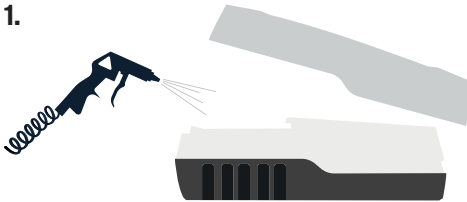
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Maintenance of the Plein-Aircon. 3/3

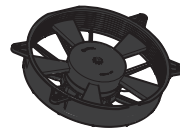
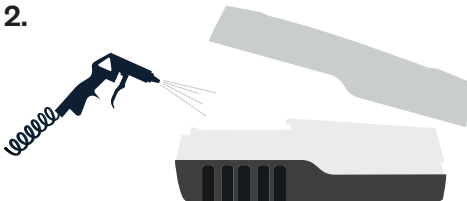
Annually clean the capacitor battery (removing the external cover) using compressed air, being careful not to damage the aluminum fins (1). Insects, lint, and other debris may accumulate on these fins, potentially reducing heat exchanger efficiency. **Also, check the condenser fan (2).** Cleaning the condenser and ensuring proper ventilation are crucial to prevent reduced cooling performance and potential compressor damage or failure.

1.



CAPACITOR
BATTERY

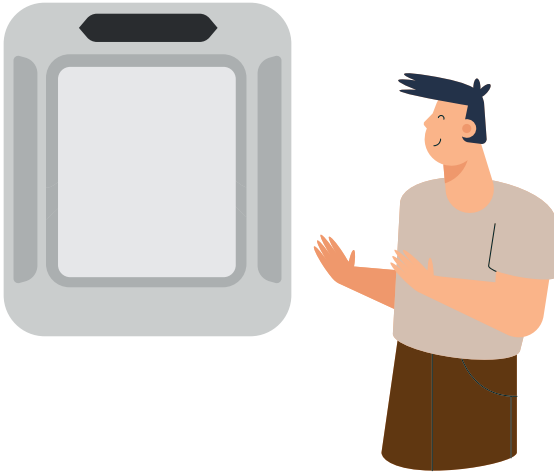
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CONDENSER
FAN

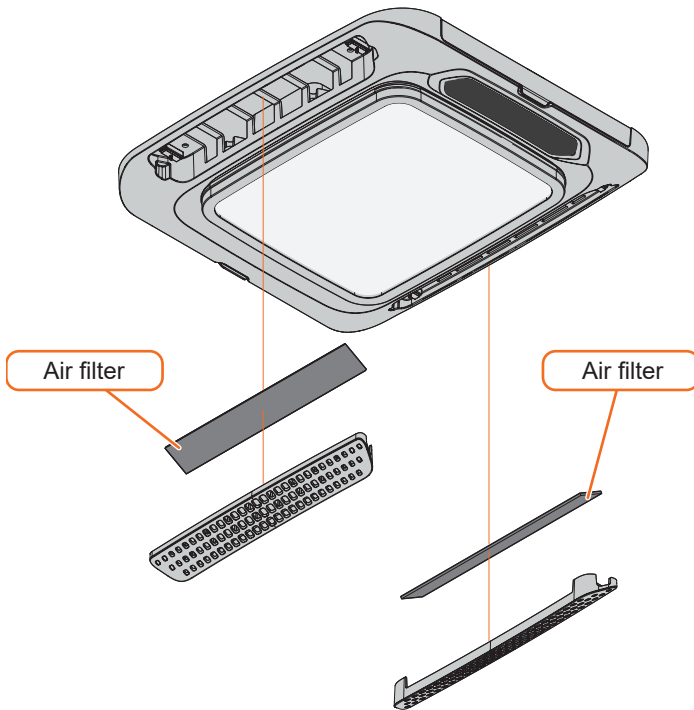
Routine Maintenance by the User.

Users can perform routine maintenance independently according to the manufacturer's guidelines.



Recommended Routine Maintenance Procedures.

Every two months, clean the filters on the sides of the diffuser with compressed air. Replace filters annually. Avoid operating the air conditioner without filters, as dirt may accumulate on the evaporator coil, reducing system efficiency.



Routine Maintenance. 1/2

The air conditioner requires minimal maintenance. **However, avoid leaving it idle for extended periods. Start it at least once a month (1), even during winter (2), to ensure lubrication of components that may dry out if left inactive for too long.**

1.



2.



Additional Routine Checks. 2/2

Verify the operation of the condenser fan. Remember, cleaning the condenser and ensuring proper ventilation are crucial. A dirty or poorly ventilated condenser reduces system performance and can shorten compressor life or even cause failure.



