

Please keep the product invoice and this document for warranty.

Warranty Certificate

User Information

Username/Title:	
Phone Number:	Address:
Invoice Number and Date:	Installation Date :
Product Description: Lika Plus Parking Air	Working Voltage: 24V / 12V
Conditioner NRM-30 Serial Number:	Vehicle Plate
Vehicle Model and Year:	
User Signature	Dealer/Service Stamp and Signature

Warranty Statement

The product is under warranty for 2 years against malfunctions caused by the manufacturer's design or production errors. For full warranty terms, please visit our company's website.

Damages caused by installations made outside our authorized services, disassembly of the product, tearing of labels or improper use are not covered by the warranty. The invoice and warranty document must be presented during the warranty period. If the invoice and warranty document cannot be presented or if the documents are tampered with, the product is out of warranty.

Statement of Responsibility

The user must pay attention to safety during the installation of the product on the vehicle. In case of any personal safety problem, the user is responsible.

liKA Plus

TECHNOLOGY

NRM-30 SINGLE FAN PARKING AIR CONDITIONER

User Manual

Thank you for choosing our product.
Please read this manual carefully before using the parking air conditioner.
Before using the parking air conditioner, you can achieve better performance by quickly cooling your vehicle's original air conditioner.
This parking air conditioner is designed for use when the vehicle is parked. However, our product is also suitable for use while the vehicle is running and driving.

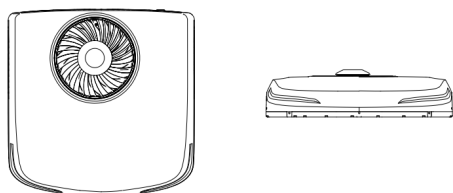
İTHALATÇI
Norm Elektronik Sanayi ve Dış Ticaret A.Ş.
ATB İş Merkezi, G Blok, No: 189-190, 06105
Macunköy- Yenimahalle/ ANKARA
Tel: +90 312 397 79 95 (pbx)
www.normelektronik.net

Powered by **NORM** electronics

Fault-Warning Definitions

Fault Code	Definition	Explanation
E1	Low or high voltage protection	Battery voltage outside set low or high protection levels
EC	Sensor Error	Short circuit in sensor line, poor contact or sensor error
EF	Evaporator Fan is faulty	Evaporator fan cable is broken, fan is blocked or fan motor is faulty
E2	Overcurrent protection is active	Air conditioner gas is too much, condenser is dirty or blocked or condenser fan is faulty
E3	System lock is enabled	Compressor wiring fault and/or compressor blocked
E4	Control panel low voltage protection is enabled	Malfunction in control panel power supply circuit and/or control board
E5	Short circuit in phase line	Short circuit, breakage or wear in compressor cables
E6	Control panel high voltage protection is active	Malfunction in power supply circuit and/or control panel circuit
E7	Interruption in compressor operation	Contact problem in the compressor cable and/or compressor failure
F8	Condenser fan failure	Condenser fan cable broken, fan blocked or fan motor faulty
H0	Over temperature protection	Air conditioner gas pressure is high, condenser is dirty or clogged, or condenser fan is faulty.
H2	Compressor phase protection is active	Poor contact, short circuit or fault in compressor control circuit in compressor/control panel cable

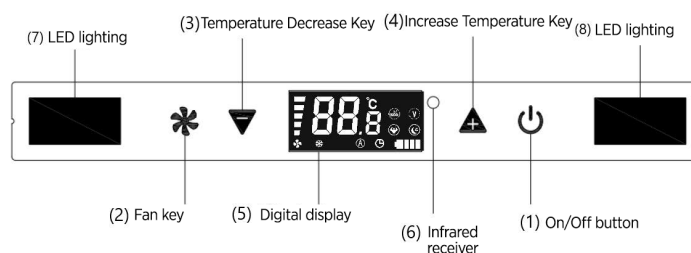
Product Image - Outdoor Unit



Technical Specifications

Air Circulation Volume	400 m3/h	
Working Voltage	24V	12V
Power Consumption	750 W	720 W
Cooling Capacity	2200 W	1860 W
Current (at 35°C outdoor temperature)	9-35A	23-59A
Compressor Type	Scroll	Scroll
Evaporator and Condenser Fan Motors	Brushless	Brushless
Energy Efficiency Ratio (EEP)	2.87 W/W	
Air conditioning gas R134a Filling Quantity	500 ±5 g.	
Control Mode	Smart Frequency Converter	
Set Temperature Adjustment Range	17-30 °C	
Plastic Material	ABS	
Plastic Material	37 dB	
Size (length X width X height)	720*720*140 mm	
Weight	27 kg	
Outdoor Unit Color	White	

Digital Control Panel



- (1) On/Off Button: Turns the parking air conditioner on and off.
- (2) Fan Key: Increases the air blowing intensity in 1st, 2nd, 3rd, 4th and 5th stages respectively. If pressed at 5th level, the fan intensity continues from 1st stage..
- (3) Temperature Decrease Key: Decreases the set (target) temperature.
- (4) Increase Temperature Key: Increases the set (target) temperature.
- (5) Display: Shows set temperature, internal temperature, battery voltage, error codes and operating mode icon.
- (6) Infrared receiver: Detects remote control signals.
- (7) LED lights are turned on and off with a remote control.

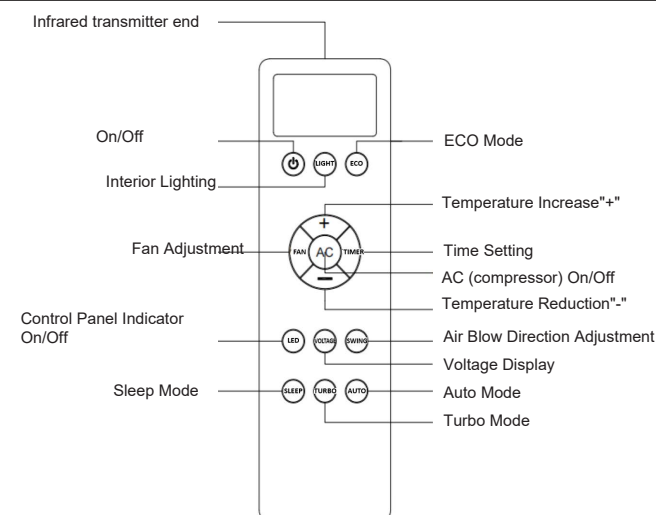
Low voltage protection function

Your parking air conditioner has a low voltage protection feature. The purpose of this function is to prevent your battery from running out while the air conditioner is running. Your air conditioner comes with this function installed and set at the factory. However, if you want to change the low voltage protection function settings, you should ask for support from our authorized services.

Voltage Display

If the VOLTAGE button on the remote control is pressed while the air conditioner is on, the battery voltage will be displayed on the control panel display together with the red V icon. After 5 seconds, the V icon disappears and the display returns to the previous mode.

Remote Control



Warnings

If there is a curtain, door, or any other object blocking the remote control's signal to the air conditioner, the air conditioner will not be controllable with the remote control.

The remote control should not come into contact with liquids. Do not expose the remote control to direct sunlight or place it in extremely hot locations.

If other electronic devices are interfering with the remote control, please move the remote away from these devices.

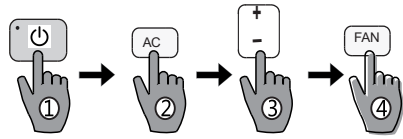
When the remote control's battery runs out, replace it with a new one; do not use old or different types of batteries, as this may cause the remote to malfunction.

If you will not be using the remote control for an extended period, please remove the batteries; otherwise, battery leakage may damage the remote.

If the low battery warning appears on the remote's screen, the batteries need to be replaced. The average battery life is approximately one year.

The effective range of the remote control is 8 meters. During use, the infrared

Quick Start



- ① Press the On/Off key.
 - ② Press the AC key to turn on the cooling function. Press the AC key once more, the device will exit the cooling mode and switch to fan mode.
 - ③ While cooling is on, set the desired SET temperature with the "+" and "-" buttons located in the middle of the remote control. SET temperature can be set between 17°C and 30°C. If the indoor temperature drops below the SET temperature, cooling will be turned off.
 - ④ When the cooling is on or only the fan is running, the 5-stage blowing level can be adjusted with the FAN button.
- The higher the fan level selected, the louder the cooler will operate. Please select a comfortable fan level for yourself.
- ⑤ You can turn off the device by pressing the on/off button while the air conditioner is operating.

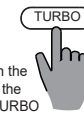
Timing Setting

- ① The timer feature allows you to set the air conditioner to turn on or off after a specified number of hours.
- ② Setting the Turn-On Time: When the air conditioner is off, press the TIMER button on the remote control. Then, by pressing the TIMER button either step by step or continuously, you can set the air conditioner's turn-on time between 0 and 24 hours. The set time value will be displayed on the remote control's LCD screen.
- ③ Setting the Turn-Off Time: When the air conditioner is on, press the TIMER button on the remote control. Then, by pressing the TIMER button either step by step or continuously, you can set the air conditioner's turn-off time between 0 and 24 hours.
- ④ To cancel the turn-on or turn-off timer setting, the time value must be reset to zero using the TIMER button.



Turbo Mode

When the park air conditioner is on and the cooling function is active, pressing the TURBO button on the remote control will activate the TURBO mode for rapid cooling. In TURBO mode, the system will set the temperature to 17°C and the fan speed to the 5th level. Pressing the TURBO button again will exit TURBO mode and return the air conditioner to its previous operating mode. If the user does not exit TURBO mode manually, the air conditioner will automatically exit TURBO mode 40 minutes after activation and continue cooling with the fan set to the 4th level and the SET temperature at 22°C. The user can restart TURBO mode by pressing the TURBO button again. However, since persistent use of TURBO mode can cause the device to draw high current, it is recommended to check the battery charge level before reactivating TURBO mode.



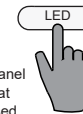
Interior Lighting

By pressing the LIGHT button on the remote control, you can turn the LED lighting on the indoor unit on or off.



Digital Display

When the air conditioner is turned on, the SET temperature is displayed on the digital control panel display. To prevent the digital control panel display illumination from negatively affecting sleep at night, press the LED button. The display illumination will turn off. When the LED button is pressed again, the digital control panel display will light up. In fan mode, the current indoor temperature value is displayed on the control panel display.



Sleep Mode

When the air conditioner is turned on, the sleep mode is entered by pressing the SLEEP button on the remote control. When the sleep mode is entered, the device will set the SET temperature to 24°C and the fan speed will be reduced to the 2nd stage. In sleep mode, the user can increase the fan level to the 2nd stage at most.



ECO Mode

To switch to ECO mode, press the ECO button even when the device is off. In ECO mode, the air conditioner automatically sets the SET temperature to 26°C. After 8 hours, it will automatically exit ECO mode and switch to normal cooling mode. It is not recommended to use the 26°C energy saving (ECO) mode when the outdoor temperature is very high.



Otomatik Mode

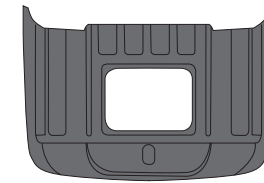
When the parking air conditioner is on, press the AUTO button on the remote control to start the automatic mode. In automatic mode, the fan blowing level is automatically determined according to the difference between the interior temperature and the SET temperature. As the interior temperature of the vehicle approaches the SET temperature value, the fan blowing speed decreases.

In all operating modes except TURBO mode, the speed of the AC compressor changes automatically according to the difference between the indoor temperature and the SET temperature. As the indoor temperature approaches the SET value, the compressor speed and the current drawn from the battery decrease.

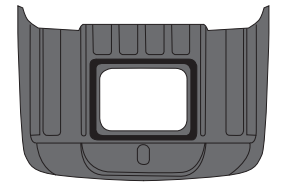


Replacing Remote Control Batteries

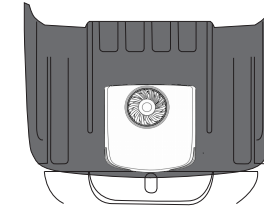
- The remote control is powered by two AAA batteries.
- Open the battery cover.
- Insert two new batteries, paying attention to the "+" and "-" signs in the battery compartment.
- KClose the lid.



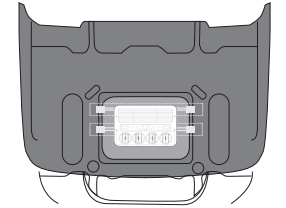
- ① Sunroof on top of the vehicle clean the area around the window.



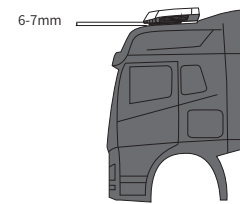
- ② Paste the sealing sponge around the sunroof window



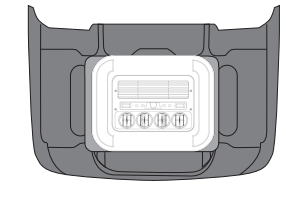
- ③ Place the outdoor air conditioning unit inside the window



- ④ Connect metal connecting rods



- ⑤ After installation, the thickness of the sealing insulation sponge should be 6-7 mm.



- ⑥ Mount the mounting frame on the indoor unit