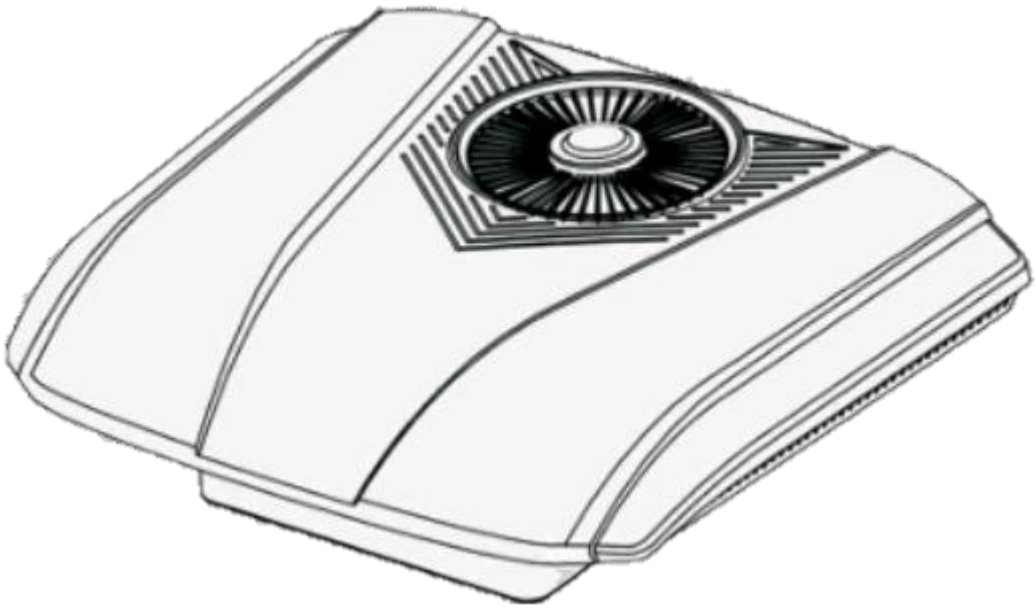
COOLABAH

THE COOL, QUIET REVOLUTION

KOOKABURRA USER/INSTALLATION MANUAL



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Installation

1. Remove the vehicles sunroof and clean the surrounding area. If there is no sunroof, cut a hole using the template provided into the roof ensuring it is central side-to-side.
2. Apply the waterproof sealing strip to the perimeter of the rooftop unit, then apply the sealant to the perimeter of rubber seal before placing on the roof.
3. Place the Kookaburra unit in the hole so that the evaporator portion is sitting inside the hole
4. Ensure the internal portion of the Kookaburra is centered to the hole
5. Ensure the roof is sufficiently braced, especially in line with the rubber seal
6. Use the supplied mounting brackets to pull down the rooftop unit sufficiently to seal against the roof.
7. Fit the surround shroud, making sure the whole is covered and looks neat.

Note: If a custom shroud is needed for the truck, please call Coolabah technical support on 0414 274 444.

8. Fit the Coolabah battery to the truck in an appropriate position, in the toolbox or on the rear wall.
9. Run the wiring from the unit to the auxiliary battery and connect using the fuse provided.
10. Fit the DC/DC charger in an appropriate position to allow for cooling when vehicle is in motion.
11. Wire up DC/DC charger to the truck alternator using the wiring loom and fuse holders provided.
12. Wire up the DC/DC charger to the auxiliary battery using the wiring provided.
13. Test the unit to ensure all operations are correctly functioning.
14. Use 750g of R134a gas to charge the unit if not already charged from the factory

If you have any questions, please call Coolabah on 02 9833 1911

Kookaburra Parameters	
Machine size (mm)	1147x894x170
Net weight (kg)	34
Voltage (V)	24
Power consumption (W)	150-950
Rated cooling capacity (W)	300-2500
Evaporating air volume (m3/h)	200-460
Performance coefficient (w/w)	3.2
Refridgerant	R134a
Refridgerant charge (g)	750

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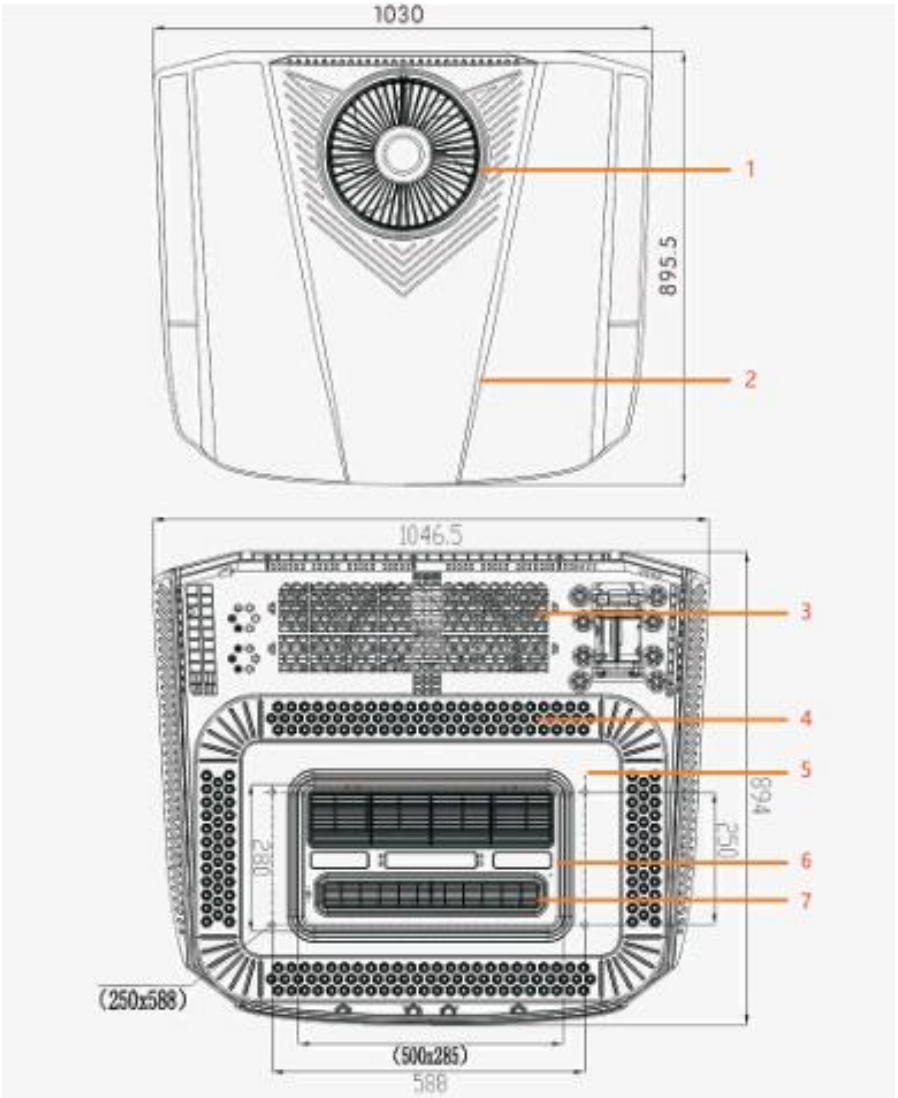
DIMENSIONS



1. Condensing fan 2. Top cover 3. Bottom plate 4. Skylight decorative panel
5. Lining fixing screws 6. Lighting, display screen, buttons 7. Air outlet

OPERATION

Panel

1. ON/OFF Button OR while power is on, short press to switch modes

2. Wind speed control button OR long press to turn on and off light

3. Short press for temperature + OR long press to turn on and off light

4. Short press for temperature – OR long press to turn on and off wind swing function

Modes

ON/OFF Button: When the air conditioner is turned off, short press this button to turn on the air conditioner. When the air conditioner is turned on, short press this button to turn off the air conditioner

ECO Mode: Temperature is adjustable at 5-32, green line output is 9-14V

MAX Mode: Temperature is adjustable at 5-32, green line output is 9-19V; long press this button for more than 3 seconds, the air conditioner will be turned off

Mode: Temperature is adjustable at 5-32, green line output is 9-17V

Mode: Temperature is 5-32, green line output is 0V

Function Introduction

1. The panel interface is intuitively controlled
2. It can be displayed and controlled synchronously with the remote control which is flexible and convenient
3. The internal unit can realise 5-speed regulation of wind speed and automatic stepless speed regulation
4. It has high and low voltage protection function
5. It has three adjustable modes: standard, super and sleep
6. It has sensor abnormality and compressor status alarm display function
7. It has the automatic adjustment of compressor power function
8. Support wind sweeping function
9. Power supply anti-reverse connection and anti-leakage connection protection
10. Large- area LED lighting function, convenient for night operation and reading

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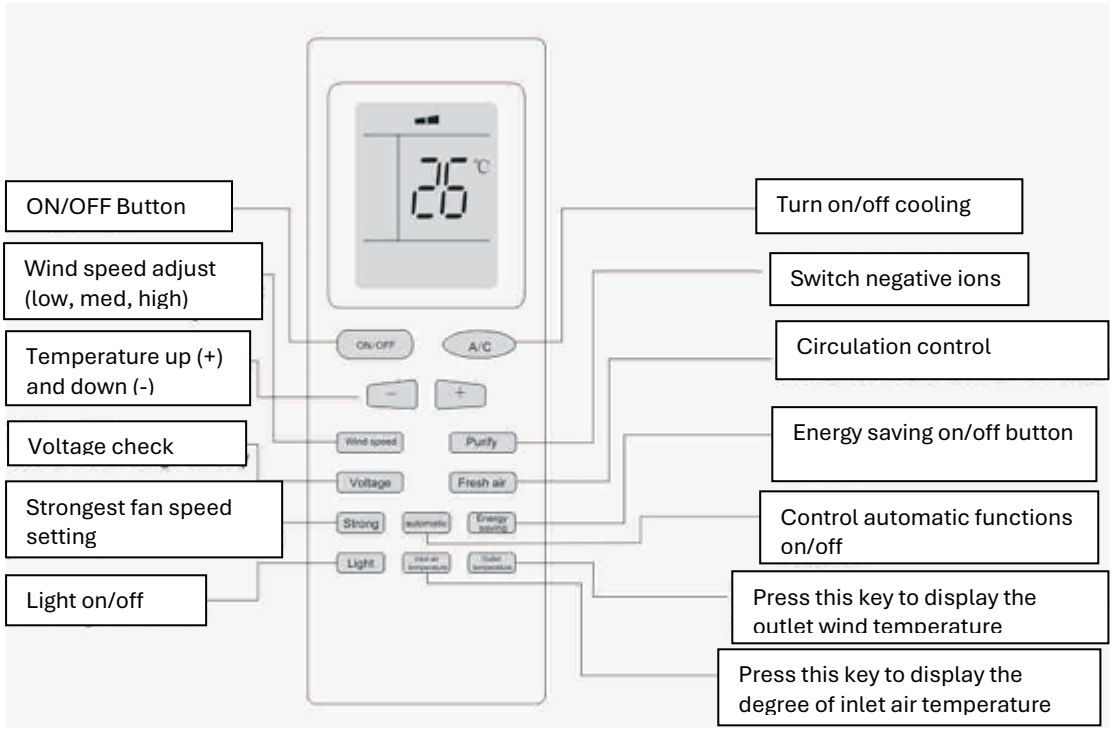
Remote control



FAULT LIST

CODE	ERROR
E2	Compressor current protection
E3	Compressor stall protection
E4	Compressor undervoltage protection
E5	Controller failure
E6	Condensing fan failure
E7	Compressor stall/phase loss protection
E8	Over-temperature protection
E9	Pressure switch protection
OPE	Temperature sensor failure
LU	Controller low voltage

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CODE	ISSUE	SOLUTION
NO CODE	The set temperature of the indoor unit is lower than the ambient temperature, and the cooling mode is turned on	Try turning on the strong cooling.
	The measured voltage of the indoor unit control frequency conversion green line is 4.5-19V, and there is no voltage	Control panel circuit failure or poor contact of the panel plug-in
	The power supply of the outdoor unit controller and the voltage of the frequency conversion line is normal, the condensing fan and the compressor do not work	Replace outdoor unit controller assembly
	The power supply of the outdoor unit controller, the voltage of the frequency conversion line is normal, the condensing fan is working normally, and the compressor does not respond.	Check whether the compressor plug has poor contact or has water in it, or if the compressor is damaged.
E2	Work for a few minutes or a short time to report a fault	Check whether the condenser fan is working normally. If it is not the condenser may be full of dust, clear the condenser
	The power chord is too thin, and the power cord is in poor contact	Adjust the power chord or replace
	There is no response when booting up	Try restarting after power failure. The controller may be short circuited if so, replace it.
E3	The system is blocked	Check the expansion valve, drying bottle and conduction
	The compressor starts to vibrate	There may be debris in the system, if it has damaged the compressor, replace it
E4	The low voltage measured at the power supply terminal of the controller is higher than the protection value	Replace the controller
	Low voltage value of the controller (24V19.5/12V9.5)	The gate switch will cause excessive voltage to drop, and the air conditioner will have a short service time
	The battery pack is not charged in time independently, and the battery is in a non-saturated state for a long time	May need to replace the battery pack
E6	Fault overcurrent protection for the fan of the external unit	Check whether the electronic fan rotates and flexibly, and whether there is a jam phenomenon and replace the motor
	If the fan is working normally	Replace the controller as it may have an internal fault
E7		Check the terminals of the compressor and the terminals of the controller for disconnection or loose screws
	3-phase wires of the compressor are open-circuited	Measure the 3-phase wires with a multimeter, if there is an open circuit, the compressor motor is faulty. Replace compressor
	The wiring harness is normal, and the compressor harness is normal	Replace the controller
LU	The panel voltage is too low protection, measure the voltage value of the internal unit, the voltage cannot be lower than the set voltage.	If the voltage is higher than the set voltage, you can set the low voltage protection lower and try again

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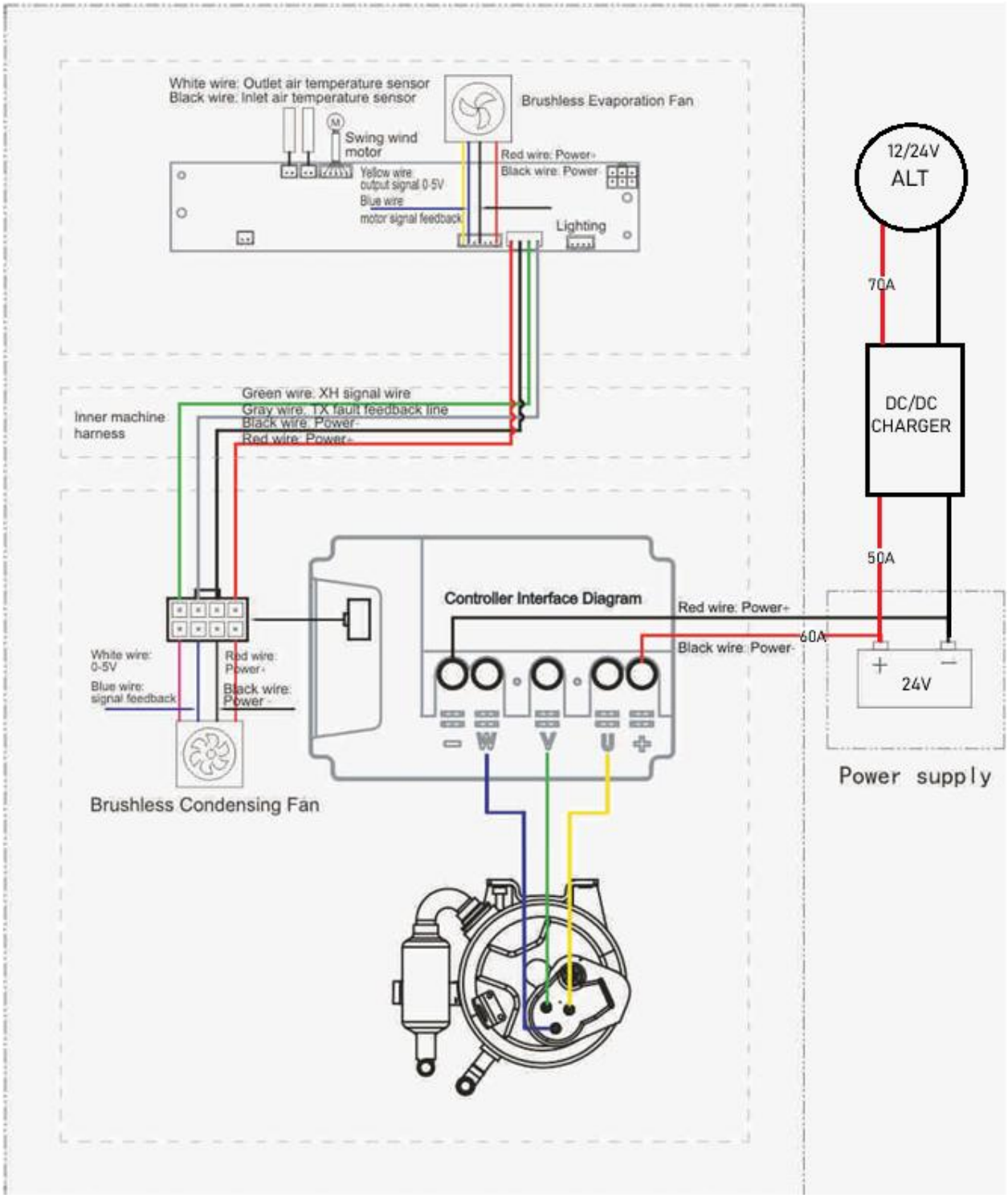
WIRING DIAGRAM



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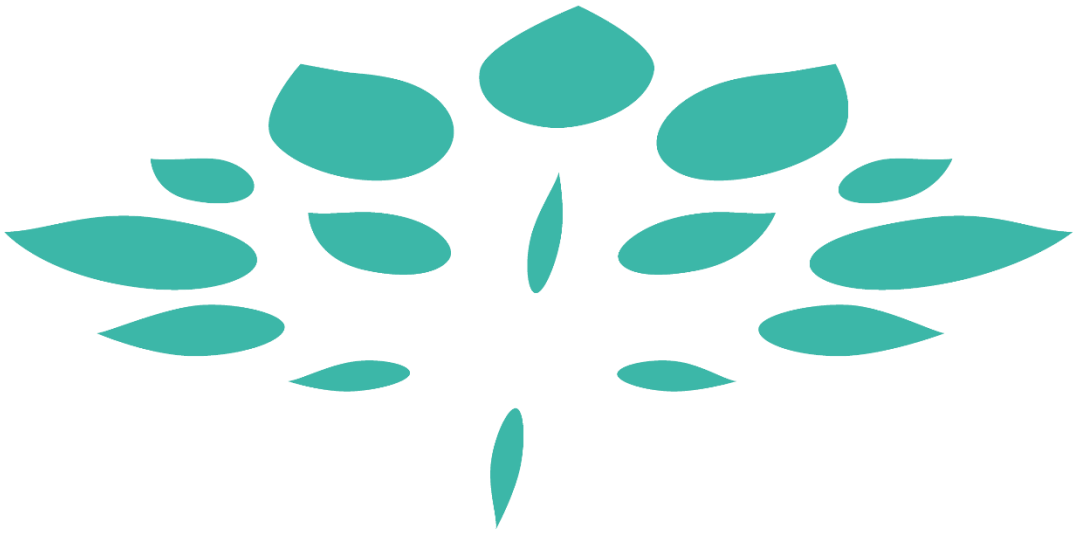

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