

USER GUIDE

iFROST

PORTABLE AIR CONDITIONER



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OVERVIEW




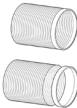


The iFROST Portable Air Conditioner delivers powerful 1000W (3412 BTU) cooling performance with an efficient 415W power draw. Designed for use in tents, caravans, off-grid setups, and small indoor spaces, it provides fast, effective temperature control without excessive energy use.

Compact, quiet, and easy to operate, it features a built-in dehumidifier, eco-friendly R290 refrigerant, and a simple air exhaust kit for quick setup. With a bright LED display and remote control included, the iFROST Portable Air Conditioner is a reliable, low-maintenance solution for portable climate control.

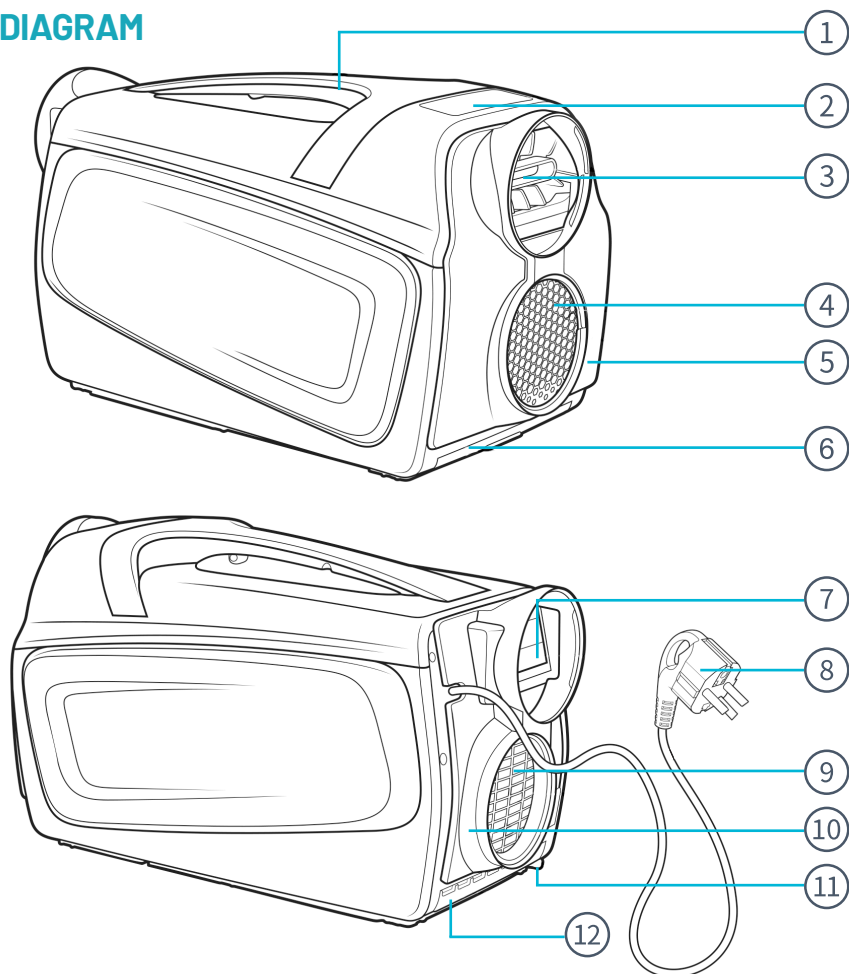
KEY FEATURES

- Powerful 1000W / 3412BTU cooling
- Eco friendly R290 refrigerant
- Compact and portable
- Inbuilt dehumidifier
- LED touchscreen display
- Easy to install exhaust hose
- Included remote control
- Adjustable airflow direction
- Heavy duty construction
- Whisper quiet 46dB operation

PACKAGE CONTENTS

					
iFROST Portable Air Conditioner	Remote	User Guide	2x Ducts	Front Duct Adapter	Rear Duct Adapter

UNIT DIAGRAM



① CARRY HANDLE

② LED CONTROL PANEL

③ COLD AIR OUTLET

④ FRONT INTAKE

⑤ FRONT DUCT ADAPTER

⑥ FRONT FILTER

⑦ WARM AIR OUTLET

⑧ AC 240V PLUG

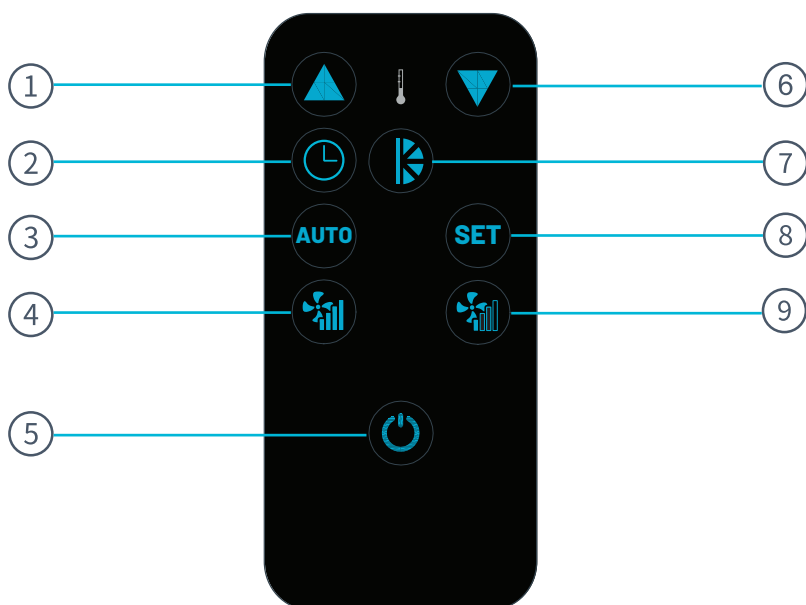
⑨ REAR INTAKE

⑩ REAR DUCT ADAPTER

⑪ DRAINAGE OUTLET

⑫ REAR FILTER

REMOTE DIAGRAM



① INCREASE TEMPERATURE

② TIMER

③ AUTO

④ HIGH FAN SPEED

⑤ MAIN POWER CONTROL

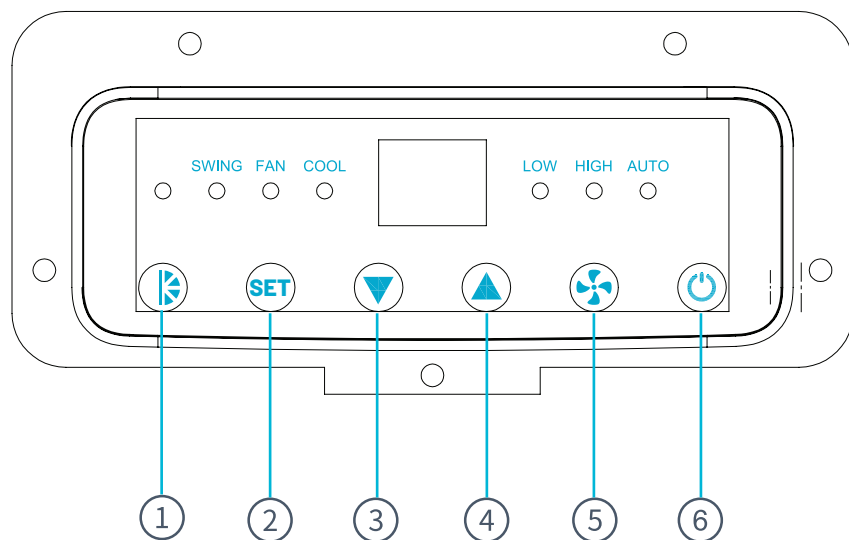
⑥ DECREASE TEMPERATURE

⑦ FAN SWING

⑧ SETTINGS

⑨ LOW FAN SPEED

LED DISPLAY



① FAN SWING

② SETTINGS

③ DECREASE TEMPERATURE

④ INCREASE TEMPERATURE

⑤ FAN SPEED

⑥ MAIN POWER CONTROL

INSTALLATION

To ensure safe and effective operation, the iFROST Portable Air Conditioner must be correctly positioned and installed before use. Proper airflow and secure ducting is required for cooling performance, while the drainage setup is recommended for extended use or high humidity environments.

PLACEMENT

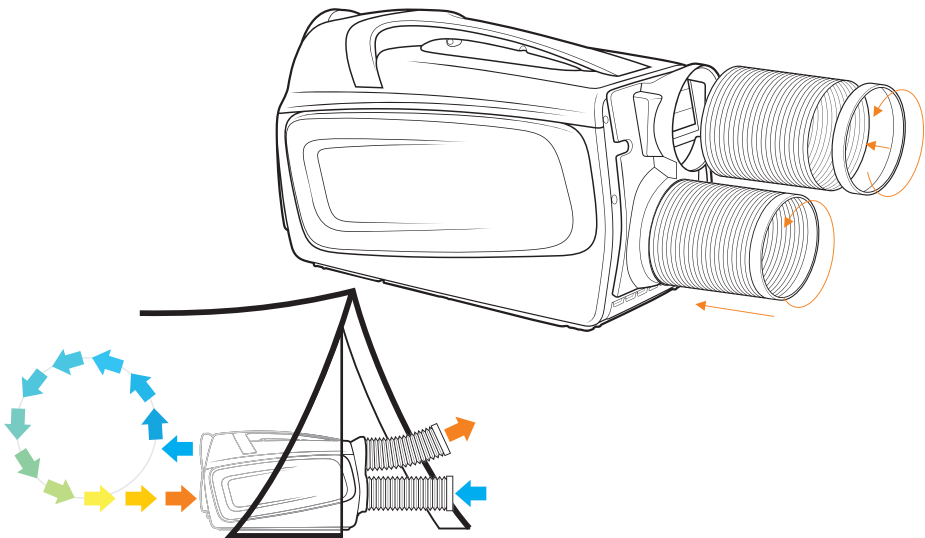
Before using the iFROST Portable Air Conditioner, ensure the unit is positioned on a flat, stable surface.

NOTE: Allow at least 50 cm of clearance around the unit, particularly near the air intake and exhaust vents.

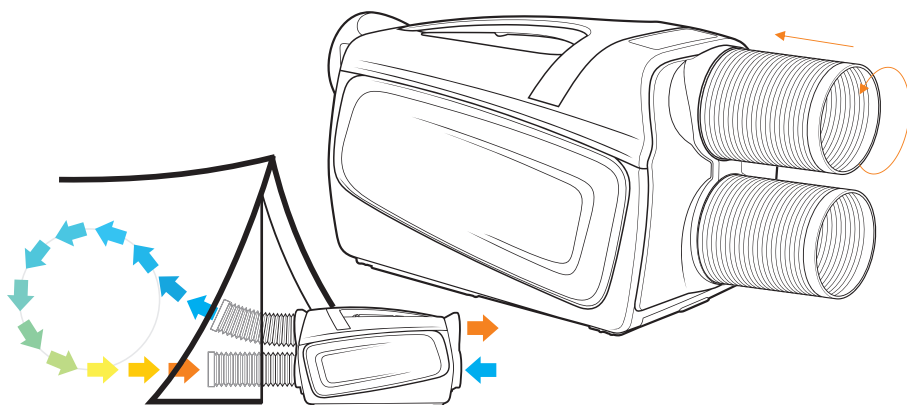
The unit can be used in semi-enclosed or indoor spaces, provided the warm air is ducted outside using the supplied ducts.

There are two typical setup configurations:

1. **Indoor Setup:** The air conditioner is placed inside the space being cooled. Both ducts are routed outside to deliver cooled air and remove warm air.



1. **Outdoor Setup:** The air conditioner is placed outside the space being cooled. The ducts are routed inside to deliver cooled air and remove warm air.



Do not place the unit:

- In direct sunlight or near heat sources
- In locations where airflow from the ducts may be blocked
- In an area where it may get wet
- On uneven or sloped surfaces

DRAINAGE

The iFROST Portable Air Conditioner features evaporative cooling, which disperses most condensation automatically through the exhaust ducts during normal use. This minimises the need for manual drainage in typical environments.

In environments with high humidity or when the unit is running continuously for extended periods, a drain hose should be connected to avoid leakage.

To install a drain hose:

1. Locate the drainage outlet at the rear of the unit.
2. Remove the rubber cap.
3. Connect a suitable drain hose to the outlet.
4. Lead the hose to a safe drainage location.
5. Refit the rubber cap when the hose is not in use.

NOTE: Always ensure the drain hose leads downward to allow water to flow freely. Avoid routing the hose upward or with loops that could cause water to back up into the unit.

OPERATION

POWERING ON

To begin using the iFROST Portable Air Conditioner, connect the AC 240V plug to a suitable 240V power outlet. Press the main power control button on the LED display or remote to switch the unit on. The air conditioner will start operating in cooling mode using the last saved temperature and fan speed settings.

SWING FUNCTION

The iFROST Portable Air Conditioner allows manual adjustment of vertical airflow and automatic control of horizontal airflow. Tilt the outlet fins up or down manually to direct airflow vertically. Press the swing button on the LED display or remote to activate automatic left to right movement. Press the button again to stop the vents at your preferred angle.

TEMPERATURE SETTING

Use the ▲ and ▼ buttons on the LED display or remote to adjust the temperature setting. The available range is 17°C to 30°C. The iFROST Portable Air Conditioner will automatically maintain the selected temperature by regulating compressor and fan speed as needed when on the AUTO setting.

FAN AND COOLING MODES

The iFROST Portable Air Conditioner includes two modes: cooling mode and fan mode. Use the SETTINGS symbol on the LED display or remote to switch between modes.

In cooling mode, the unit runs the compressor and fan to actively reduce the temperature to your selected environment. The cooling indicator will flash while cooling is in progress and stay solid once the target temperature is reached.

Fan mode allows for simple air circulation without activating the compressor. This is ideal when cooling is not required. The display will show “-” instead of a set temperature when fan mode is active.

FAN SPEED CONTROL

The iFROST Portable Air Conditioner offers three fan speed settings: Low, High, and Auto. Use the fan speed button on the LED display or remote to cycle through the available options.

- Low speed provides gentle airflow with reduced noise.
- High speed offers maximum airflow for faster cooling.
- Auto mode starts at high speed and automatically lowers once the set temperature is reached.

NOTE: The fan will continue running after the compressor shuts off to help maintain consistent airflow.

TIMER

The timer function allows you to set the iFROST Portable Air Conditioner to switch off automatically after a selected number of hours. Press the TIMER button on the remote control to activate the function. Each press increases the timer in one hour increments, and the display will show the number of hours remaining before shutdown.

NOTE: The timer function is only available via the remote control.

MAINTENANCE

To ensure reliable performance and extend the lifespan of the iFROST Portable Air Conditioner, basic maintenance should be performed regularly. Always disconnect the power supply before cleaning or servicing the unit.

AIR FILTERS

Blocked or dirty filters reduce airflow and cooling performance. Clean the front and rear filters every two weeks during regular use.

To clean the filters:

1. Turn off and unplug the unit.
2. Remove the front and rear filters.
3. Rinse the filters with warm water.
4. Allow the filters to completely dry.
5. Reinstall the filters before operating the unit.

STORAGE

If the unit will not be used for an extended period of time:

1. Turn off and unplug the unit.
2. Drain any remaining water from the drainage outlet.
3. Clean and dry the air filters.
4. Wipe down the exterior with a soft, damp cloth.
5. Store in a dry, dust free location.

NOTE: Do not use abrasive cleaners or immerse the unit in water.

TROUBLESHOOTING

Issue	Possible Cause	Solution
Unit does not turn on	Not connected to power	Check AC 240V plug
Weak or no cooling	Air intake or outlet blocked	Clear obstructions from vents
	Room too large or high ambient temperature	Use in suitable space with proper insulation
	Compressor in standby after reaching set temperature	Wait for compressor to cycle back on
Water leaking from rear	High humidity or continuous use	Connect drain hose to drainage outlet
Display shows “-” instead of temperature	Fan mode is active	Switch to cooling mode to set temperature
Excessive noise	Uneven surface or loose components	Place unit on level surface and check for damage
Remote not responding	Batteries depleted or remote not aimed at unit	Replace batteries and aim at LED panel

If you are still experiencing issues, please contact the iTechworld service centre.

FAULT CODES

Fault Code	Fault	Solution
E1	Temperature sensor fault	Isolate the inverter for 60 seconds, If you are still experiencing issues, please contact the iTechworld service centre.
E2		
E4	Full water tank	Drain the unit via the drainage outlet

SPECIFICATIONS

General Specifications	
Model Name	IFAC415
Dimensions	545 x 304 x 340mm
Weight	14.2kg
Voltage	AC 220-240V~50Hz
Insulation	Class I (PE)
Compressor	High-Efficiency IF
Cooling Capacity	1000W/3412BTU
Cooling Range	17°C ~30°C
Operating Temperature	0°C ~ 50°C
Refrigerant	R290
IP Rating	IP25
Noise	46dB

SAFETY PRECAUTIONS

For safe operation and optimal performance, the iFROST Portable Air Conditioner must be operated correctly. Please carefully read, understand, and follow all instructions and guidelines in this user guide. Failure to follow these instructions may result in damage to the unit, property, death, or serious injury.

Disclaimer: While iTechworld has taken every precaution to ensure the accuracy of the contents of this user guide, iTechworld assumes no responsibility for any errors or omissions.

Furthermore, all specifications and functionality may change at any time without notice.

It is best to view our website for the most up-to-date information.

WARNING:

Ensure the water level is checked regularly when using the unit in high humidity environments or for extended periods. Failure to monitor water buildup may result in internal overflow or water damage.

WARNING:

Do not disassemble or modify the air conditioner, as doing so may result in a risk of electrical shock, fire, death, or serious injury.

WARNING:

People with physical disabilities and visual, sensory, or mental impairments (including children) should not use this air conditioner. Children should be supervised to ensure they do not play with the unit.

WARNING:

The air conditioner is not waterproof; do not expose the unit to moisture or precipitation.

WARNING:

This model uses R290 refrigerant.

WARNING:

Do not pierce or burn the unit.

WARNING:

Do not damage any of the power cables connected to the air conditioner; this includes kinking the cables, wrapping the cable around the air conditioner, or pulling the cable around sharp edges.

WARNING:

Before moving the unit, always drain and clean the water tank to avoid water damage.

WARNING:

Do not operate the unit in a high-moisture room, like a bathroom or laundry.



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THE POWER EXPERT

CONTACT US



1300 483 249



service@itechworld.com.au



www.itechworld.com.au



At iTechworld, we proudly lead the way in pioneering innovative off-grid power and battery solutions that bring cutting-edge technology to adventure seekers, remote workers, and outdoor enthusiasts across Australia. Since we began our journey all the way back in 2006, our passion has been to develop high-performance lithium batteries, solar panels, power stations, generators, and battery management systems tailored to caravans, camping, 4WDs, and off-grid living.

We believe in empowering people with reliable, portable, and efficient energy solutions, giving them the power they need—wherever their journey takes them. Our commitment to quality is unwavering, with every product rigorously tested to meet Australian conditions and backed by our knowledgeable power experts.

Driven by innovation, reliability, and sustainability, iTechworld is your trusted partner in power solutions, helping you stay powered anywhere, anytime.

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