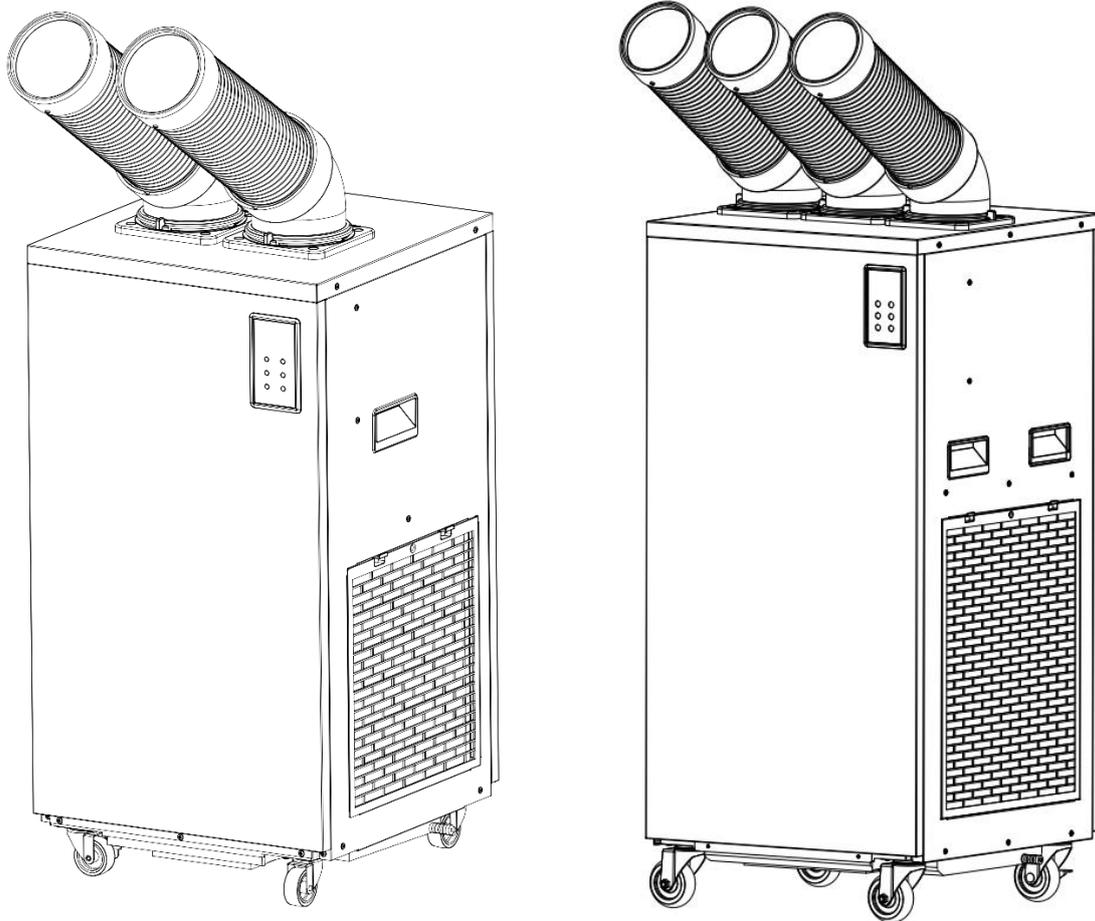


electriQ

USER MANUAL



electriQ PORTABLE INDUSTRIAL AIR CONDITIONER CMAC12M-V2 CMAC20M-V2

Thank you for choosing electriQ

Please read this user manual before using this innovative Air Conditioner and keep it safe for future reference.

Visit our page www.electriQ.co.uk for our entire range of Intelligent Electricals

Welcome to electriQ

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We'd love to see how you're getting on.

If you share any snaps on your socials,
make sure you tag us and use our hashtag.



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We're here to help

Got a question or need help?

Get in touch with our friendly customer service team.



0330 390 3061

support@electriQ.co.uk

Mon - Fri | 9am to 5pm

**Unit 2A, Trident Business Park, Neptune Way,
Leeds Road, Huddersfield, HD2 1UA**

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SAFETY INSTRUCTIONS



Important!

- Carefully read the instructions before operating the unit.
- This appliance is for indoor use only.
- Rating: This unit must only be connected to a 220-240 V / 50 Hz earthed outlet. The fuse rating can be found on the plug itself.
- Installation must be in accordance with the applicable regulations of the country where the unit is used.
- If you have any doubt about the suitability of your electrical supply, have it checked and, if necessary, modified by a qualified electrician.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities. It is also not intended for use by those with a lack of experience and knowledge unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Do not leave children unsupervised with this appliance.
- You must follow the venting and set-up instructions; incorrect operation can result in damage to the unit, which is not covered under your warranty.
- This air conditioner has been tested and is safe to use. However, as with any electrical appliance, use it with care.
- Do not obstruct any ventilation openings.
- The airflow should never be restricted, for example, by venting the unit into a condenser box or reducing the hose diameter, as this can damage the unit.
- Disconnect the power from the appliance before dismantling, assembling or cleaning.
- An authorised service representative should perform any service other than regular cleaning or filter replacement. Failure to comply could result in a voided warranty.
- Avoid touching any moving parts of the appliance.
- Never insert fingers, pencils or any other objects through the guard.
- **WARNING:** Do not pierce or burn any part of the unit.
- Do not clean the unit by spraying it or immersing it in water.
- Never connect the unit to an electrical outlet using an extension cord. If an outlet is not available, one should be installed by a qualified electrician.
- Never operate this appliance if the cord or plug is damaged. Ensure the power cord is not stretched or exposed to sharp objects/edges.
- A damaged supply cord should be replaced by the manufacturer or a qualified electrician to avoid a hazard.
- Do not use the appliance for any purpose other than its intended use.
- **The air conditioner unit must always be stored and transported upright; otherwise, irreparable damage may be caused to the compressor. If there is doubt, we suggest waiting at least 24 hours before starting the unit.**
- Avoid restarting the air conditioner unless 3 minutes have passed since being turned off. This prevents damage to the compressor.
- Never use the mains plug as a switch to start and turn off the air conditioning unit. Use the provided POWER button located on the control panel.
- Always place the unit on a dry, stable, flat surface.

- The appliance should not be installed in the laundry or wet rooms.
- The appliance must be placed in a room without sources of ignition (for example, open flames, an operating gas appliance or an operating electric heater).
- R290 refrigerant gas complies with European environmental directives.
- R290 has a low GWP (Global Warming Potential) of 3.
- This CMAC12M-V2 contains around 230g of R290 refrigerant gas and the CMAC20M-V2 contains around 350g of R290 refrigerant gas
- Do not use or store in an unventilated space with an area smaller than below:

CMAC12M-V2	11 m ²
CMAC20M-V2	16.75 m ²

- **WARNING:** The appliance must be stored in a room without continuously operating ignition sources, for example, open flames, an operating gas appliance or electric heaters.
- The room must be such as to prevent stagnation of possible leaks of refrigerant gas, as there could be a danger of fire or explosion should the refrigerant come into contact with electric heaters, stoves or other ignition sources.
- Only store and use the unit whilst upright; do not lay it down or tip it.
- Do not place the unit near any ovens or other heat sources. This may be dangerous and it will make the unit work harder and use more energy.
- Do not place the unit in direct sunlight; this can affect its appearance and cause it to work harder and be less energy efficient.
- Refrigerant gas may be odourless.
- Do not use the product and contact the retailer for advice if damage has occurred to the unit, which may have compromised the refrigerant system.
- Any repairs or maintenance must only be conducted by a suitably qualified engineer. Before opening and servicing the unit, the authorised engineer must possess a copy of the manufacturer's service manual and follow the safety information it contains to minimise all hazards.
- The refrigerant system should not be perforated or punctured.
- At the end of the unit's lifetime, always dispose in line with local regulations.
- Ensure all storage conditions in the manual are followed.
- **WARNING:** Do not use means to accelerate the defrosting process or to clean the unit.

	WARNING: This appliance contains flammable refrigerant. If this leaks and comes into contact with an external ignition source, there is a fire risk.
	CAUTION: The operation manual should be read thoroughly.
	CAUTION: Any service personnel working on the unit should read the service manual beforehand.
	CAUTION: Information on operation and servicing is in the manual.

ENERGY SAVING AND UNIT SAFETY PROTECTION TIPS

- Do not cover or restrict the airflow from the outlet or inlet grilles.
- For maximum performance, the minimum distance from a wall or object should be 50cm.
- Keep the filters clean. Under normal conditions, filters should only need cleaning once every three weeks (approximately). Since the filters remove airborne particles, more frequent cleaning may be necessary, depending on the air quality.
- For the initial start-up, set the fan speed to maximum and the thermostat to 5 degrees lower than the current temperature. Afterwards, set the fan switch to low and set the thermostat to your desired setting.
- To protect the unit, we recommend not using the cooling function when the ambient temperature exceeds 35°C. The unit's performance may be affected at lower temperatures than this. If a scorching day is predicted, running the unit overnight in the desired room is recommended.

FEATURES

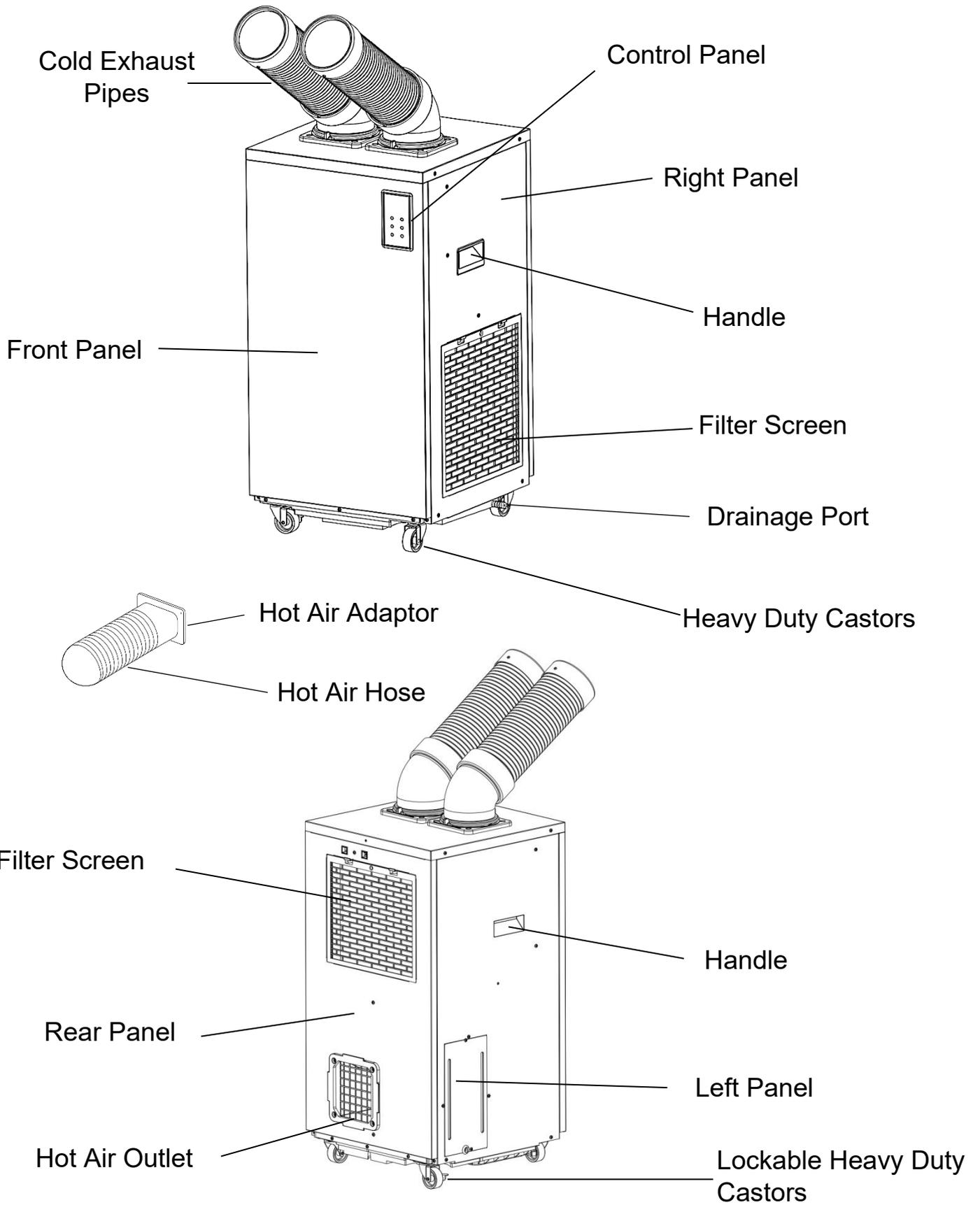
- 3 in 1 Cooling, Fan, Dehumidifier.
- 2 speed fan: Balancing quiet operation with performance.
- 24 Hours Start / Stop Timer.
- Digital Thermostat.
- Auto-Restart to retain the settings in the event of power failure.
- Lockable castors for Enhanced Portability.
- Durable metal casing.
- Cold air ducts allowing redirection of the cold air.

HOSE SPECIFICATIONS

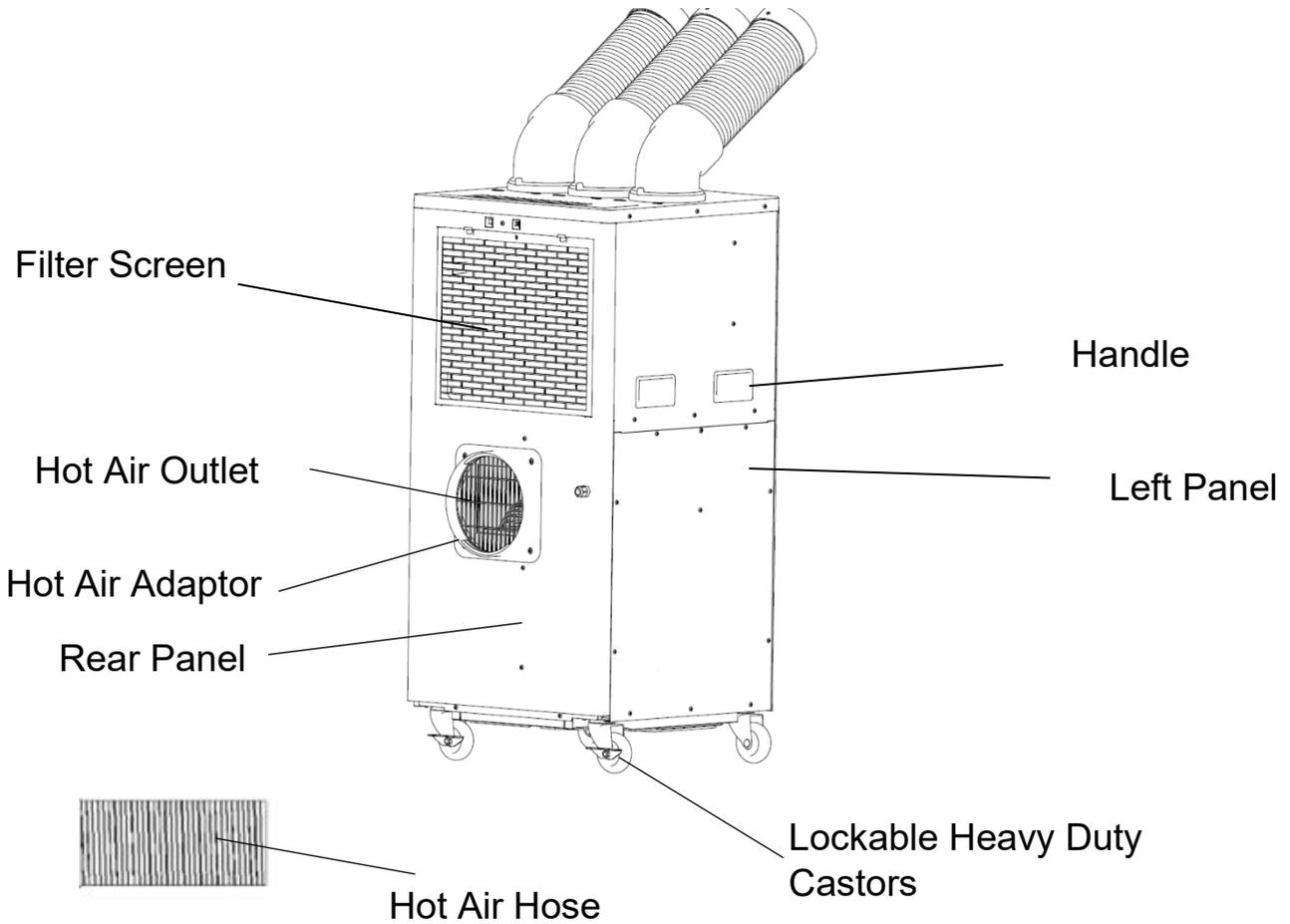
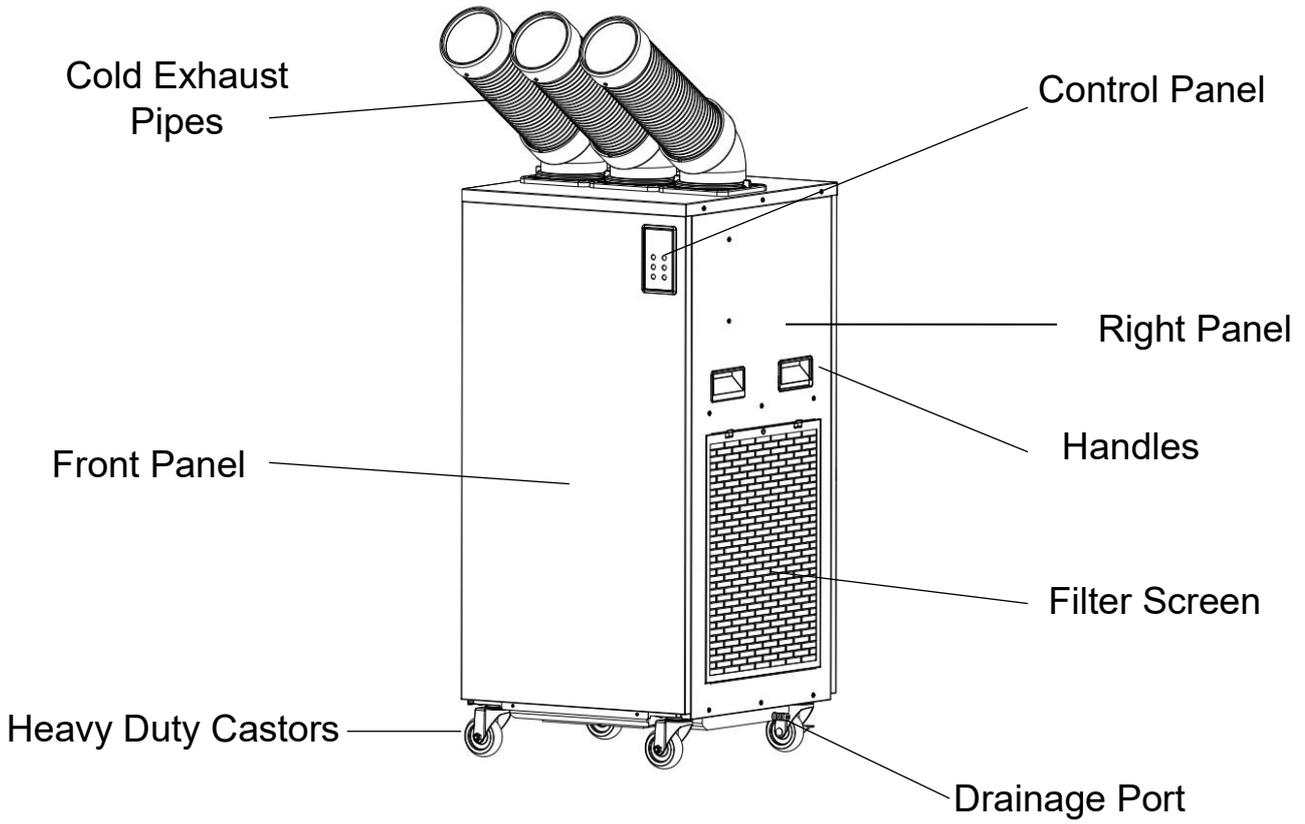
Hose	Hose External Diameter (mm)	Supplied Hose Length (cm)	Max Permitted Hose Length (cm)
Cold Air	120	35	45
Hot Air	CMAC12M-V2: 150 CMAC20M-V2: 190	35	180

APPLIANCE DIAGRAMS

CMAC12M-V2:



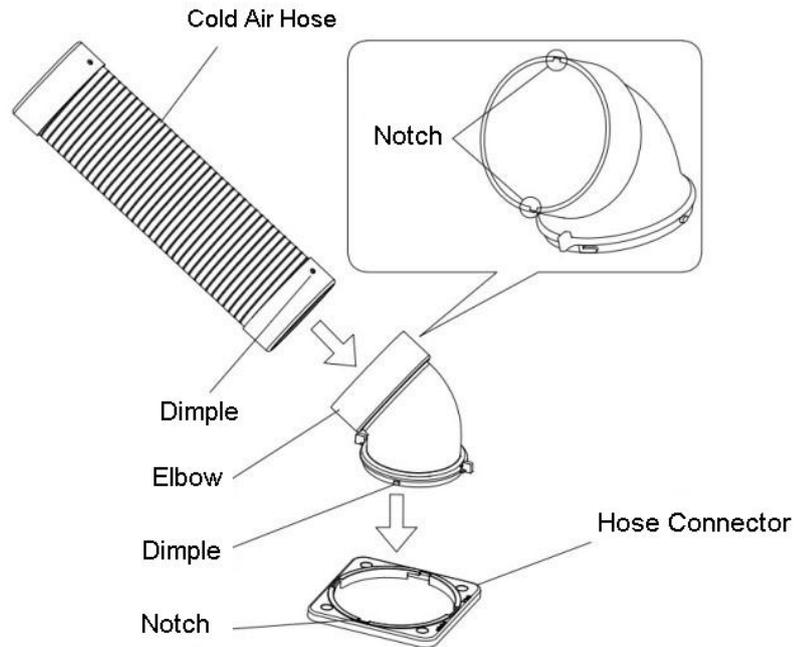
CMAC20M-V2:



INSTALLATION

COLD AIR OUTLETS

1. Line up the dimple on the Elbow with the notch on the Hose connector on the top of the air conditioner.
2. Rotate anticlockwise until a click can be heard, indicating the elbow has locked into place.
3. Insert the Cold Air Hose into the Elbow, again lining up the dimple with the notch in the Elbow.
4. Rotate the pipe anticlockwise to fix it in place.
5. The pipe can then be extended and pointed in the desired direction.
6. Repeat for the second air outlet.



HOT AIR OUTLET

If using the appliance for cooling of an area, rather than spot cooling the Hot air hose must be connected to the rear of the appliance following the steps below:

CMAC12M:

1. Clip the hot air adaptor (with the hose reattached) onto the rear of the appliance.
2. Route the hot air hose outside to remove the hot air from the room.

CMAC20M:

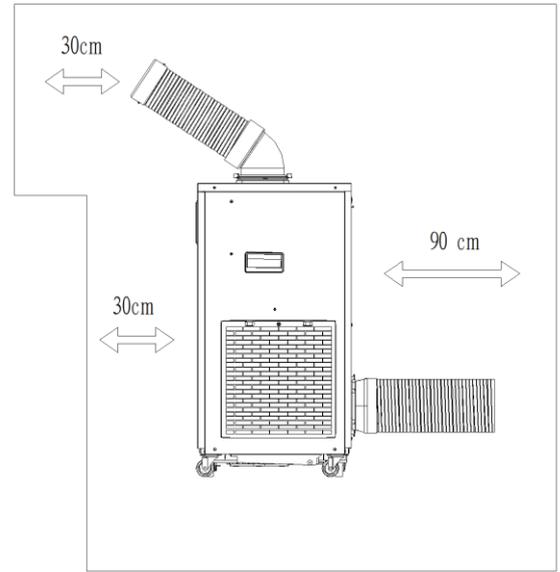
1. Twist the provided hose onto the Hot air outlet on the rear of the appliance. We advise a minimum of 3 full turns.
2. Route the hot air hose outside to remove the hot air from the room.

NOTES:

- The best form of installation is through a wall duct. By properly venting you expel hot air from your room while efficiently cooling it.
- Your air conditioner should be used without the vent pipe in dry mode. When using dry mode ensure that the water tank is monitored and regularly emptied. Permanent plumbing can be also installed for dry mode or an external uplift water pump can be set up for unattended use.

IMPORTANT SAFEGUARDS

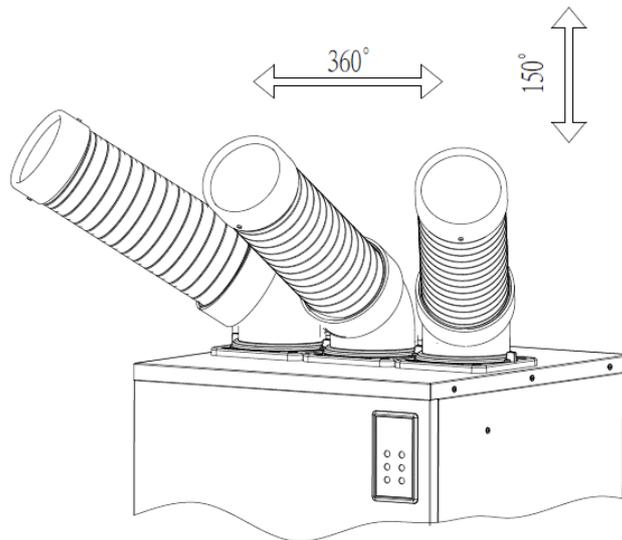
If hoses are extended above the permitted length, the unit may malfunction which can invalidate the warranty. The outlet vent must be well ventilated and not obstructed as this will cause the unit to overheat. Keep all the hoses as straight and short as possible and avoid bending the air hose by more than 45 degrees in order to maintain the performance of the unit. Excessive bends in the hose may prevent the unit from expelling the hot air, which can lead to internal damage which would invalidate the warranty. Ensure that sufficient space is left in from the end of the vent pipes (30cm – Cold air, 90cm Hot air)



Hose	Hose External Diameter (mm)	Max Permitted Hose Length (cm)
Cold Air	120	45
Hot Air	CMAC12M-V2: 150 CMAC20M-V2: 190	180

COLD AIR OUTLETS

The cold air outlets can be twisted 360 degrees, allowing the cold air to be directed for personal preference.



OPERATION



POWER

Press the POWER button to turn the unit ON or OFF.



MODE

Press the MODE button to cycle between the 3 modes, the indicator for the selected mode will be illuminated.



COOL

The room is cooled with the cold air expelled through the cold air outlets while hot air is expelled through the Hot Air Pipe. The desired room temperature can be set between 15 and 35 degrees using the Up and Down buttons, and the fan speed can be changed using the FAN button.



FAN

The fan speed can be changed pressing the FAN button.



DRY

The unit removes moisture from the air. When using as a dehumidifier the hot air Pipe should not be used. We advise that continuous drainage is set up when using the Dry mode.



FAN

Press the FAN button to cycle through the two fan speeds. Each time the FAN button is pressed, the indicator will change to show the currently selected speed. The fan speed can be changed between Low and High.



TIMER

The timer functions cannot be combined or repeated.

POWER ON TIMER

With the appliance in standby, press the TIMER button to set the power-on timer. Use the Up and Down buttons to adjust the duration of the timer. The timer indicator will turn on and the unit will start after the selected number of hours.

POWER OFF TIMER

With the appliance running with the desired settings, press the TIMER button to set the power-off timer. Use the Up and Down buttons to adjust the duration of the timer. The timer indicator will illuminate and the unit will stop after selected number of hours.



Used to adjust temperature in COOL mode and to set the duration of the TIMER. The buttons are not used in FAN or DRY modes.

OTHER OPTIONS



TEMPERATURE DISPLAY UNIT

Press both the UP and DOWN buttons together for 5 seconds to switch between displaying temperatures in Fahrenheit and Celsius.



CONTINUOUS COOLING

Press the UP and MODE buttons together to enter continuous cooling mode. In this mode the unit will run in cooling mode with no desired room temperature.

MULTI PROTECTIVE FUNCTIONS

FROST PROTECTION

In COOL and DRY modes, if the temperature of the exhaust is too low, the machine will automatically stop operating until the temperature has risen.

OVERFLOW PROTECTION

When the water in the internal water tank exceeds the warning level, the machine will stop operating and “FL” will be displayed. To resume operation, empty the internal water tank. After the water is emptied, the machine will automatically return to the original state.

AUTO-DEFROST

The machine has automatic defrosting function. If during operation the temperature of the internal coils drops too low, the unit will enter auto defrost and the heating symbol will flash on the control panel.

AUTOMATIC THERMAL PROTECTION

To protect the service life of the machine, the machine has automatic thermal protection. If the temperature within the unit is outside of the specified range, the compressor and the lower motor will stop operation. The appliance will automatically return to normal operation after the temperature of the machine recovers.

COMPRESSOR PROTECTION

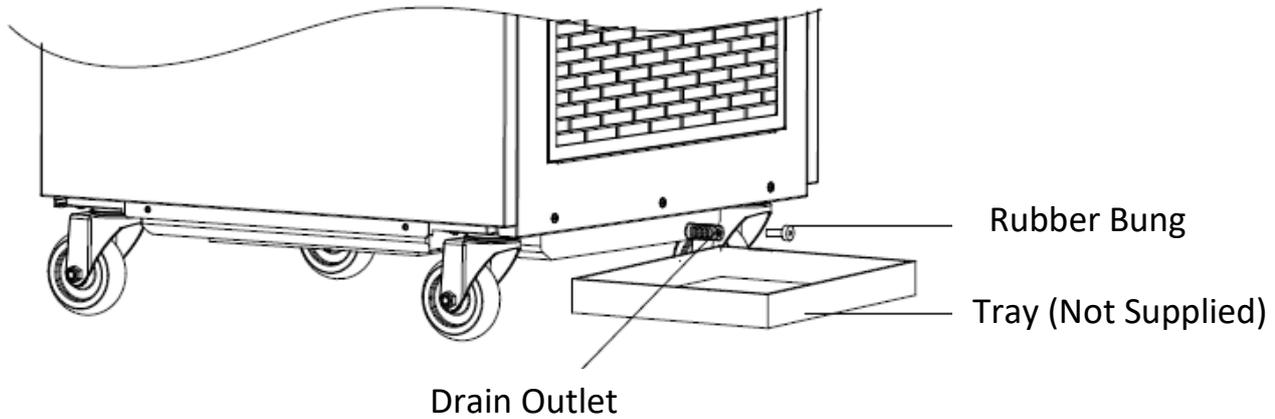
To prevent damage to the compressor there is a 3 minute delay start protection function.

EMPTYING THE INTERNAL WATER TANK

MANUAL DRAINAGE:

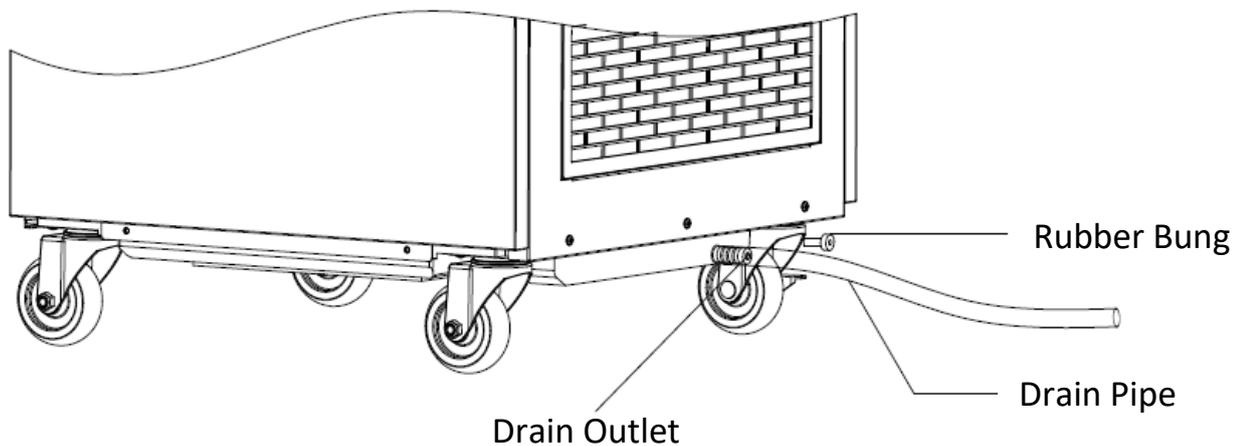
When the internal water tank is full the unit will stop working and “FL” will be displayed.

Shut off the unit and unplug. Try not to move the appliance as this may cause the water in the internal tank to spill out. Remove the bung from the base of the unit and empty into a tray or drain. Replace the bung in the unit before plugging back in and restarting operation.



CONTINUOUS DRAINAGE:

Remove the bung from the unit and connect the drainage pipe to the spout. The drain is gravity fed, so can be routed downwards to a suitable drain. Alternatively, the pipe can be attached to an external uplift pump (not supplied) to pump the water uphill to a suitable drainage point.



NOTE: This model has a self-evaporative function, which reduces the need to empty the water tank. If the unit is vented correctly most of the water is reused to cool the condenser coils and any excess is evaporated. Please do not use continuous drainage if you intend to use the self-evaporating facility.

CLEANING AND MAINTENANCE

PLEASE TURN OFF THE UNIT AND UNPLUG FROM THE MAINS BEFORE CLEANING OR PERFORMING ANY MAINTENANCE

CLEAN THE SURFACE

Clean the surface of the machine with a wet soft cloth. Do not use chemicals, such as benzene, alcohol, gasoline, etc; otherwise, as this may cause damage to the surface and or the internal workings of the machine

AIR FILTER CLEANING

If the filter screen is clogged with dust, the effectiveness of the air conditioner is reduced. The filter screen should be cleaned once every two weeks or as often as necessarily in your environment.

END OF SEASON MAINTENANCE

1. Empty the internal water tank.
2. Then switch the unit to low fan mode.
3. Keep the unit in this mode for half day - until the conduit is dried. Doing this helps to keep the inside of the unit dry and prevents mould from developing
4. Turn off the unit and pull out the plug.
5. Empty the water tank again.
6. Coil the power cable and fasten it together.
7. Separate the vent pipes and store them, safely.
8. Cover the unit and keep it in a dry place.

TROUBLESHOOTING

Do not repair or disassemble the air conditioning. Unqualified repair will invalidate the warranty and may lead to failure, causing injuries and property damage. Only use it as directed in this user manual and only perform operations advised here.

Problems	Reasons	Solutions
The air conditioner does not work.	There is no electricity.	Turn it on after connecting it to a socket with electricity.
	FL shown on display.	Discharge the water inside.
	The ambient temperature is too low or too high	Only use to use the machine within temperature range of 18-45°C
	In cooling mode, the room temperature is lower than the desired temperature	Change the desired temperature.
	In dry mode, the ambient temperature is low.	The ambient temperature must be above 18 °C. (60 °F).
The cooling effect is not good	There is direct sunlight.	Use curtains to reduce the direct sun heat
	Doors or windows are open; there are a lot of people; or in cooling mode, there are other sources of heat (e.g. fridges)	Close doors and windows; increase air conditioning power
	The filter screen is dirty.	Clean or replace the filter screen.
	The air inlet or outlet is blocked.	Clear obstructions; make sure venting is correct as described in this user manual and hose is not bent
Loud Noise	The air conditioning is not placed on a flat surface.	Put the air conditioning on a flat and hard place (to reduce noise).
Compressor does not work.	Overheat protection starts.	Wait for 3 minutes until the temperature is lowered, and then restart the machine.
Others	No refrigerant or there is very little refrigerant	Refer to Service Centre (check leakage, welding, vacuum pump, charge refrigerant according to name plate)
	Anti-freezing protection	Waiting for defrosting. Function will recover automatically. No user input needed.
	High pressure protection	After inside gas pressure comes down, it will function normally. No user input needed

If problems not listed in the table occur or recommended solutions do not work, please contact the service centre.

FAULT CODES

Fault code	Fault	Solution
FL	FL water full alarm	Turn off the unit and drain the water tank
E1	indoor ambient temperature sensor fault	Contact service centre
E3	evaporator coil temperature sensor fault	Contact service centre

TECHNICAL DATA

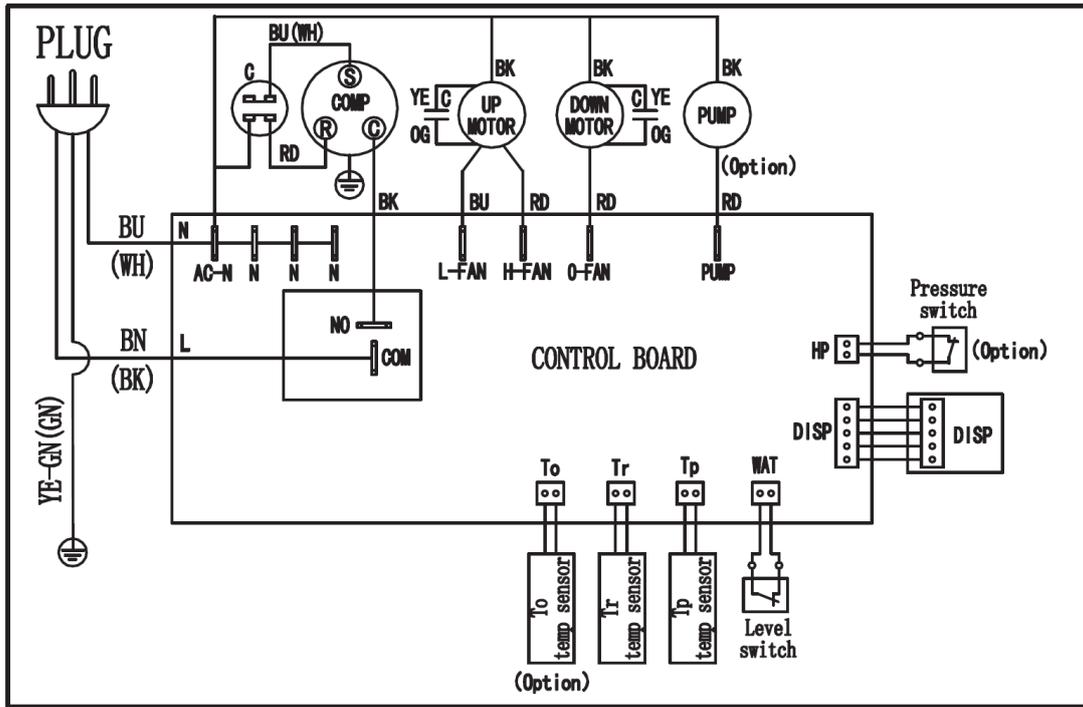
Model	CMAC12M-V2	CMAC20M-V2
Cooling capacity:	12,000 BTU	18,000 BTU
Input power:	1340 W	2000W
Fan	AC motor with 2 fan speeds.	
Air flow volume:	680 m ³ /h	900 m ³ /h
Input current:	6.0 A	9.0A
Refrigerant:	R290/230g	R290/350g
Thermostat range:	16 - 32°C	
Maximum working pressure of suction/exhaust side:	1.0/2.5 MPa	
Maximum Allowable Pressure	2.5 MPa	
Power Supply:	AC 220-240V/50 Hz	
Net Weight:	39.5 kg	57 Kg
Dimension(L*D*H):	430 x 430 x 858 mm	490 x 490 x 1062mm
<p>Unit must be vented outside when in Air Cooling mode. For the purposes of EU regulation EN12102 this is a local air conditioner and produces less than 65dB(A) sound energy.</p> <div style="text-align: center;">    </div> <p>R 290</p>		

APPENDIX



Disposal: Do not dispose this product as unsorted municipal waste. Collection of such waste must be handled separately as special treatment is necessary. Recycling facilities are now available for all customers at which you can deposit your old electrical products. Customers will be able to take any old electrical equipment to participating civic amenity sites run by their local councils. Please remember that this equipment will be further handled during the recycling process, so please be considerate when depositing your equipment. Please contact the local council for details of your local household waste recycling centres.

CIRCUIT DIAGRAM



PRODUCT FICHE

Description	Symbol	CMAC12M-V2	CMAC20M-V2	Unit
Rated capacity for cooling	P_{rated} for cooling	3.5	5.5	kW
Rated capacity for heating	P_{rated} for heating	N/A	N/A	kW
Rated power input for cooling	P_{EER}	1.34	2.0	kW
Rated power input for heating	P_{COP}	N/A	N/A	kW
Rated Energy efficiency ratio	EER_d	2.4	2.6	—
Rated Coefficient of performance	COP_d	N/A	N/A	—
Power consumption in thermostat-off mode	P_{TO}	N/A	N/A	W
Power consumption in standby mode	P_{SB}	0.5	0.5	W
Electricity consumption of single/double duct appliances	$SD: Q_{SD}$	1.437	2.062	SD: kWh/h
Sound power level	L_{WA}	65	65	dB(A)
Global warming potential	GWP	3	3	kgCO ₂ eq.

electriQ UK SUPPORT

www.electriQ.co.uk/support

Please, for your own convenience, make these simple checks before calling the service line. If the unit still fails to operate call the number below, or complete the online form.

1. Has the unit been standing upright for at least 2 hours?
2. Is the unit plugged into the mains?
3. Is the fuse OK?
4. Switch the unit off and wait three minutes to see if the issue is resolved. Restart the unit.
5. Check if the water tank is full.

www.electriQ.co.uk

0330 390 3061

Office hours: 9AM - 5PM Monday to Friday

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