



SF25 and SF35 Operating Instructions

Safety Instructions

The following instructions are for ensuring the user's safety and to prevent any physical injury or material damage. Please read carefully and follow all instructions.

There are two sections to these instructions: WARNING and CAUTION.

WARNING

- Use a 230V, 50Hz, 1 phase power supply only (wrong supply may cause a fire and / or shock hazard)
- Securely plug into an earthed supply (unless earthed, may cause electric shock)
- DO NOT use a damaged power cable, plug or socket (short, fire, or shock hazard)
- DO NOT remove the plug by pulling the cable or with wet hands (risk of fire and electric shock)
- Before cleaning, remove the plug from the socket (otherwise risk of electric shock)
- DO NOT place anything on top of the unit (this could cause electric shock, malfunction, or injury)
- DO NOT use an extension lead unless of the approved type (heavy duty, risk of fire and / or electric shock)
- Ensure mains plug is clean and securely plugged in (otherwise it may short causing smoke and fire)
- Ensure correct (13amp) fuse is fitted in the plug (otherwise malfunctioning or fire may result)
- DO NOT kink or sharply bend the power cable nor put any weight on it (the insulation may be damaged causing fire and / or electric shock)
- DO NOT turn off by removing power plug. Always turn off at control panel first (risk of electric shock and / or malfunction)
- DO NOT use this cooler on unstable or inclined surfaces. Always use on a solid flat floor (risk of falling causing injury, fire or malfunction)

Safety Notice

CAUTION

- DO NOT place cooler on uneven, unstable or inclines surfaces (this could cause malfunction)
- When storing the cooler, ensure that it is kept in a dry, cool place (to prevent corrosion and malfunction)
- If not being used for some time, or if lightning is present, always unplug from the mains (to prevent risk of electric shock, short circuit or fire)
- DO NOT spray water on to the cooler nor use solvents such as benzene, thinner or alcohol for cleaning (there is a risk of electric shock and / or short circuit)
- If the power cable is damaged this must be replaced by a fully qualified electrician (to avoid danger of electric shock, short circuit or fire)

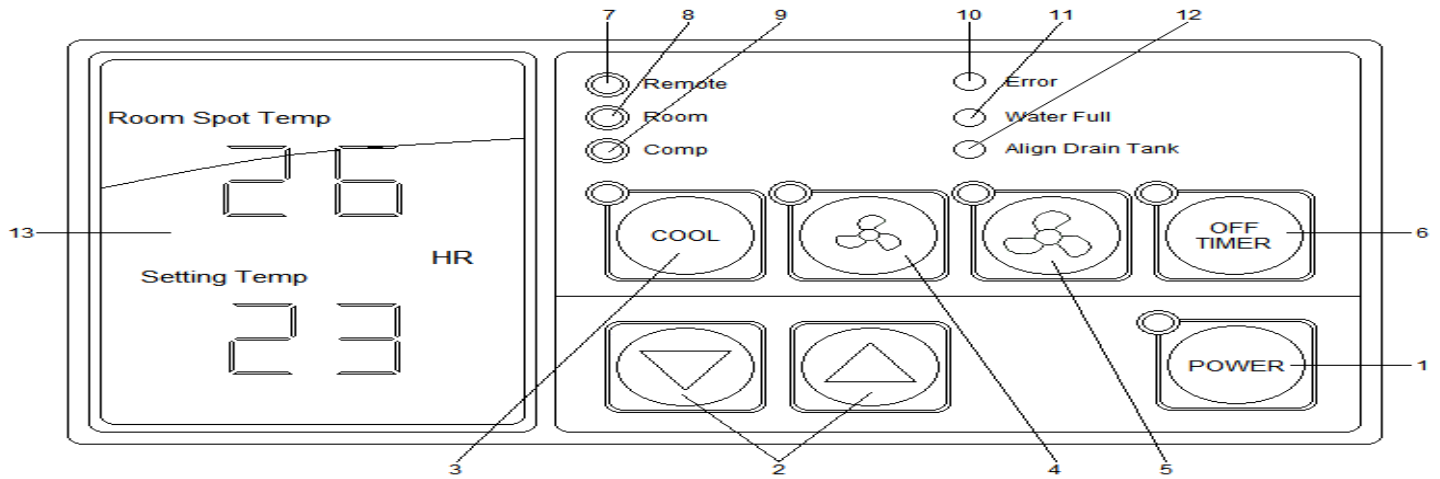
General Advice before Use

- Ensure the safety of the location in which the cooler is to be used
- Ensure the floor or ground is smooth and sound
- Ensure you allow at least 50cm air space all around the cooler
- When in position LOCK the casters to prevent rolling
- Never use the cooler at more than 2° incline

FOR MAXIMUM EFFICIENCY

- In airtight areas use vertical exhaust ducting into ceiling
- If possible locate exhaust outlet through a window or door to outside
- Exhaust ducting should be no longer than 2m for maximum efficiency
- Ensure correct electricity supply

Control Panel Functions



- 1) Power: Use to power On / Off
- 2) ▽/△: Raises or lowers temperature and / or sleep (off) time
- 3) Cool: Use to select cooling mode
- 4) Low Mode: Controls fan low speed
- 5) High Mode: Controls fan high speed
- 6) Off timer: To set the length of time, once turned on, that you wish the cooler to run for. You can set 0-24 hours. Time intervals are 30 minutes, up to 10 hours and then 1 hour between 10 and 24 hours.
- 7) Remote: From the long distance, you can control the machine by wired remote control
- 8) Room: If the LED light is ON, the displayed temperature is for Room Temp. If the LED light is OFF the displayed temperature is for Spot Temp
- 9) Comp: When the compressor is operating the LED light is ON
- 10) Error: Error signal (E1 – High Pressure, E2 – Low Pressure, E3 – Sensor, AF – Eva Freezing)
- 11) Water Full: Red Light indicates TANK FULL. The compressor will shut off automatically. Empty tank and replace in position to resume operation
- 12) Align Drain Tank: The red light indicates the water tank is not in the correct position
- 13) Display: Display Room / Spot temperature and the setting temp and sleep time in case of setting them. When the user set the sleep timer, HR will be turned on. (Display of LO – under 0°C, Display HI – over 50°C)

Operation

Running and Stop

- 1) Start by pressing the POWER button
 - Cooler will start up automatically
 - To STOP the unit, press the POWER button once again
- 2) To change the fan speed, press the LOW button
- 3) If you wish to operate on fan only, press the COOL button, to resume cooling press the COOL button again. (Note: There is a 3 minutes delay when switching functions to protect the compressor)

Selecting of Area / Room or Spot Cooling

To reduce the temperature of the entire room then select Room / Area Cooling. For targeted cooling of machinery, servers or people etc, select Spot Cooling.

- 1) If you want to display the room temperature, then push COOL and ▽ button simultaneously for 3 seconds
- 2) If you want to switch from Centigrade to Fahrenheit, then push UP △ and DOWN ▽ buttons simultaneously for 3 seconds

3)

Temperature Control Operation

- 1) When the power is on, the set temperature is displayed. Default of set temperature is 5°C
- 2) When you push either up △ or down ▽ buttons, the setting temperature can be changed
- 3) The display showing the set temperature will blink 3 times
- 4) Limits of Room / Spot and Setting temperatures. Room Spot Temp 0-50°C the setting range will be 1°C – 30°C.

Cooling operates when Room / Spot temperature is more than the set temperature.

Cooling stops when the Room / Spot temperature is less than set temperatures.

How to set the Off Timer

This function enables you to set the length of time you want the cooler to operate. You can set the time period from 30 minutes to 24 hours in 30 minutes and 1 hour increments.

- 1) When the cooler is operating, press the OFF TIMER button and set the length of timer you want by pressing \triangle or ∇ . Each time you press the button you will increase the TIME TO OFF period by 30 minutes, upto 10 hours, and 1 hour thereafter up to 24 hours. The display will show .5 for 30 minutes and 1 for an hour, eg 1½ hours will be shown as 1.5
- 2) When you have finished setting the time period, the OFF TIMER lamp will illuminate, which indicates the cooler is in sleep (off timer) mode
- 3) If you press the OFF TIMER button during its operation, the remaining time will be shown.
- 4) To CANCEL timing, press OFF TIMER button for ONE second, it will switch the timer off automatically.

Error and Warning Indicators

The units safety devise will automatically signal any problems via the display window on the control panel. The information below shows how to read these signals:

1) Water Full – Display Shows FU

When the water container is full, FU is displayed and the LED Water Full illuminates

2) Align Water Tank

If the water tank is not positioned correctly, the LED Align Drain Tank will illuminate

3) High Pressure

E1 is displayed and the Error will be on when the pressure of the compressor is too high and the high pressure switch is open

4) Low Pressure

E2 is displayed and the Error LED will be on when the pressure of the compressor is too low

5) Sensor Problem

If the thermistor is short circuited or cut, E3 is displayed and the Error LED will be on

6) Anti Freezing

When the temperature of the evaporator is below -4°C, AF is displayed and the Error LED will be on

Cleaning and Maintenance

Cleaning the Air Filters

- 1) To remove filters, slide up a little the back panel and pull towards you
- 2) Clean the filters with water and compressed air
- 3) Clean evaporator and condenser units with a vacuum cleaner or compressed air

Maintenance

- 1) After cleaning, completely dry the inside of the unit by operating on the FAN MODE only for 3-4 hours
- 2) Turn OFF at control panel, remove plug from socket, coil and store cable neatly
- 3) Keep the unit suitably covered to prevent damage by damp, humidity and dust

Trouble Shooting

Trouble	Check	Remedy
Not Working	Power plug correctly connected	Connect plug correctly
	POWER button OFF	Press POWER button to ON
	Blown fuse in mains plug	Replace fuse (MUST BE 13amp)
	Fuse (supply) blown	Exchange fuse board
	Breaker on switch board tripped	Check load capacity and reset
	Ambient temperature too high	Use only below 45°C (HSC-3500:40°C)
Poor Cooling	Filter blocked with dust	Clean filter
	Dust in heat exchanger	Clean heat exchanger
	Obstacle against inlet side	Remove and allow 50cm clearance
	Ambient temperature too high	Use only below 45°C (HSC-3500:40°C)
E1 High Pressure	Exhaust fan is not operating	Check the power supply or Call London Cool on 0800 440 444 for motor replacement
	Hot air being restricted from leaving the machine	Unblock or relocate exhaust hose
E2 Low Pressure	Refrigerant is leaking. Check with manifold gauge	Call London Cool on 0800 440 444
E3 Sensor Problem	Thermistor sensor wire cut	Change the thermistor sensor
AF Anti Freezing	Evaporator is frozen. (Ambient temp is under 20°C)	Operate continuously until AF disappears or operate in FAN mode

If problems persist, call London Cool on 0800 440 444

London Cool air conditioner rental and sales

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