ESC-1

Owner's Manual

Features and Specifications

- Temperature-sensing variable-speed fans
- Dual fan design moves 150 cu. ft. of air per minute
- Brushless motor design maintains whisper quiet operation
- Remote ON/OFF
- Two-minute delayed shut-off
- Front panel "Fan ON" LED Indicator
- Power Consumption.....24W
- Remote Input Trigger Voltage.....3-to-24 Volts AC or DC Input Control Voltage
- Remote Output.....Maximum Output 11VDC @20mA
- Dimensions

  ESC-1 Freestanding Model.....1.75 x 17.00 x 8.0 inches

  ESC-1R Rack mount Model.....1.75 x 19.0 x 8.0 inches

As we incorporate design improvements, specifications may change without notice.

SpeakerCraft®

WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the device or component.

WARNING: TO REDUCE THE RISK OF FIRE OR SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFETY INFORMATION

Read Information: All the safety and operating information should be read before the unit is operated.

Follow Information: All operating and use information should be followed.

Retain Information: The safety and operating information should be retained for future reference.

Heed Warnings: All warnings on the unit and in the operating instructions should be heeded.

Carts and Stands: This unit should be used with a stationary shelf. Do not use any mobile carts.

Wall Mounting: Mounting of this unit should be done only by an authorized installer.

Non-Use Periods: Units that are left unattended and unused for long periods of time should be unplugged from the wall outlet.

Power Sources: This unit should be connected to a power supply only of the type described in the operating instructions or as marked on each unit. If you are not sure of the type of power supply to your home, consult your authorized SpeakerCraft dealer or local power company.

Grounding or Polarization: These products are equipped with a grounding-type alternating-current line plug. This plug will fit only into a grounding-type power receptacle. This is a safety feature. If the plug receptacle does not fit, contact an electrician to replace your obsolete receptacle. Do not defeat the safety purpose of the grounding-type plugs.

Water and Moisture: To reduce the risk of electric shock or fire, these appliances should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

Power Cord Protection: Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the units. Do not damage or deform the power supply cord. If it is damaged or deformed, it may cause electric shock or fire when used. When removing from the wall outlet, be sure to remove by holding the plug attachment and not by pulling the cord.

Cleaning: Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

Overloading: Do not overload wall outlets and extension cords, as this could result in fire or electric shock. Do not use speakers with a rating of less than 4 ohms when in "non bridged" mode or less than 8 ohms in "bridged" mode.

Object and Liquid Entry: Never insert objects of any kind through the opening of this unit, as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Care should be taken so that objects do not fall and liquids are not spilled into the unit through openings in the enclosure.

Servicing: Do not attempt to service this unit yourself, as opening or removing covers could expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Damage Requiring Service: This unit should be serviced by qualified service personnel when:

- A power supply cord or a plug has been damaged.
- If liquid has been spilled into the unit or objects have fallen into the unit.
- The unit has been exposed to water or moisture.
- The unit does not appear to operate normally or exhibits a marked change in performance.
- The unit has been dropped or the enclosure damaged.

Replacement Parts: When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards. The Master Control Unit battery should be replaced only after turning the power off and only by an authorized installer.

Safety Check: Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

Lightning: For added protection for this product during an electrical storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to this product due to lightning and power-line surges.

ESC-1

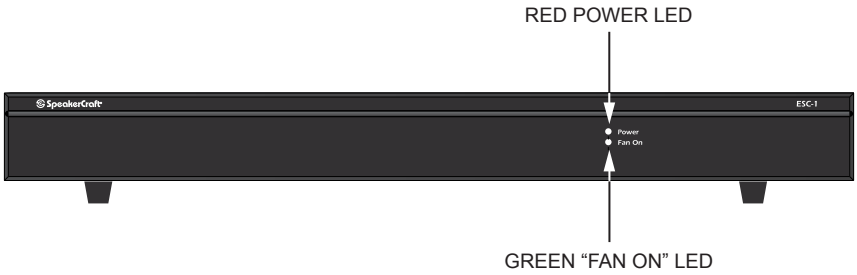
Overview

LED'S

There are two LED'S on the front panel of the ESC-1.

a) The Red LED signals "power" (the unit is plugged into a wall receptacle and receiving power from the 120V outlet).

b) A Green LED that signals when the fans are operational (blowing air).



Out of the Box Operation

When the ESC-1 is plugged into a 120V power outlet and no cable is plugged into the REMOTE input jack, both LED's will light and the fans will begin to move air.

Utilizing the REMOTE ON/OFF Feature

The ESC-1 contains a REMOTE ON/OFF feature that enables the fans to begin air movement only when your system's audio equipment "tells" it to do so. The fans will begin blowing and the green LED will light when the ESC-1 receives a 12V trigger from another source. At the rear of the ESC-1 are the "REMOTE" input and output jacks. Both jacks accept a 1/8" male "mini" plug.

The ESC-1 "REMOTE" input jack accepts 3 to 24V (DC or AC) from either another audio component that transmits this type of trigger voltage or a standard 12V (DC or AC) Power Transformer plugged into the switched outlet of an audio source. The "REMOTE" output passes 11VDC, 20mA (max) power along to the next component.

See Figure 1. on this page and Figure 2. and 3. on the next page for some applications where the ESC-1 is utilized to cool a power amplification component.

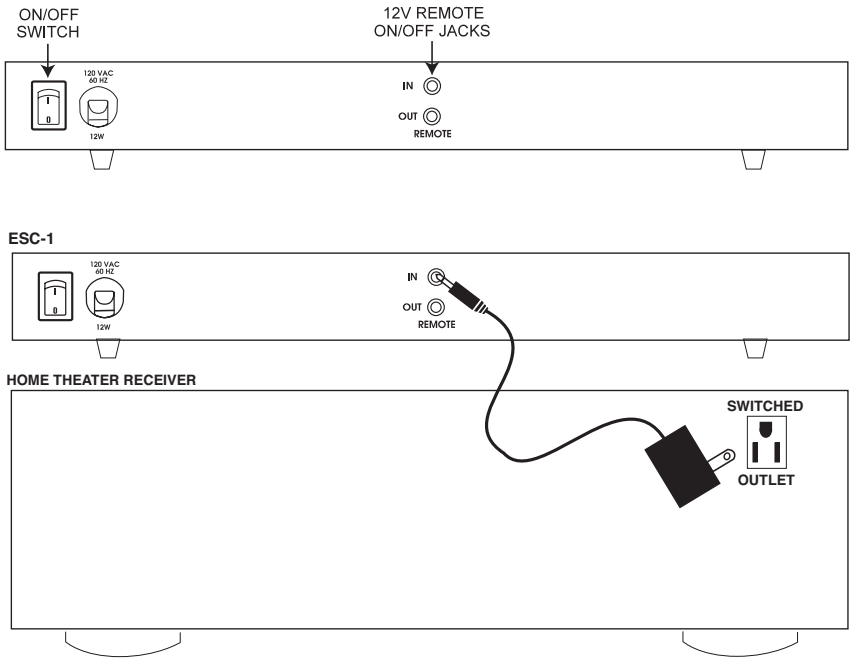


FIGURE 1

Temperature Sensing

The ESC-1's temperature sensing variable speed fans detect the amount of heat being generated by the components in its proximity and adjusts the fans speed accordingly, such as slowing them down when the system is first turned on or if listening at low levels where the system's amplifiers are not producing much heat, or speeding them up in order to quickly dissipate more heat.

Delayed Shut-Off

The ESC-1 has a built-in two minute delayed shut-off. This feature helps to dissipate heat build up in the rack or cabinet even after the system has been powered down. The shut-off delay will always be active, even when using the REMOTE IN trigger input to automatically turn on the ESC-1.

Where To Place the ESC-1 for Optimum Performance

There are two recommendations for the proper placement of audio system equipment and a ESC-1 in a rack or shelf.

a) Of course power amplifiers generate more heat than other types of audio/video equipment so we recommend placing power amplifiers at the top of a rack or shelf-type media center.

b) The ESC-1 pulls air from the bottom of the unit through its chassis and out the top. We recommend placing the ESC-1 on top of a power amplifier when used in a shelf-type configuration. When installed in a rack, it is wise to mount the ESC-1 over the power amplifier leaving one rack space between the fan and the power amplifier. A solid front panel should be mounted over this space to maximize the draw of air over the amplifier.

SHELF INSTALLATION

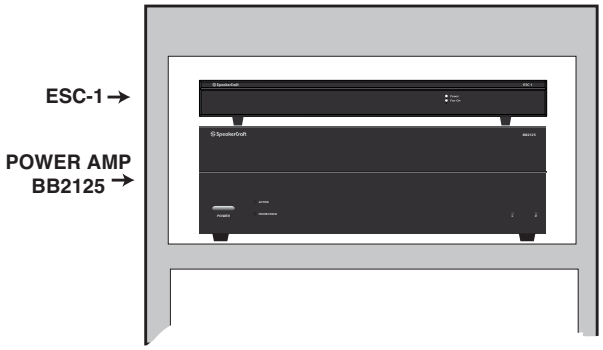


FIGURE 2

RACKMOUNT INSTALLATION

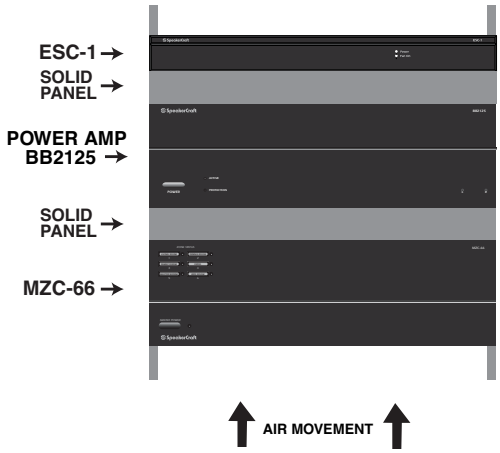


FIGURE 3

Limited 2-Year Warranty

SpeakerCraft Inc. warrants to the original retail purchaser only that this SpeakerCraft product will be free from defects in materials and workmanship, provided it was purchased from a SpeakerCraft Authorized Dealer.

Defective products must be shipped, together with proof of purchase, prepaid insured to the SpeakerCraft Authorized Dealer from whom they were purchased, or to the SpeakerCraft factory at the address listed on this installation instruction manual. Freight collect shipments will be refused. It is preferable to ship this product in the original shipping container to lessen the chance of transit damage. In any case, the risk or loss or damage in transit is to be borne by the purchaser. If upon examination at the Factory or SpeakerCraft Authorized Dealer it is determined that the unit was defective in materials or workmanship at any time during this warranty period, SpeakerCraft or the SpeakerCraft Authorized Dealer will, at its option, repair or replace this product at no additional charge, except as set forth below. If this model is no longer available and can not be repaired effectively, SpeakerCraft, at its sole option may replace the unit with a current model of equal or greater value. In some cases where a new model is substituted, a modification to the mounting surface may be required. If mounting surface modification is required, SpeakerCraft assumes no responsibility or liability for such modification. All replaced parts and product become the property of SpeakerCraft Inc. Products replaced or repaired under this warranty will be returned to the original retail purchaser, within a reasonable time, freight prepaid.

This warranty does not include service or parts to repair damage caused by accident, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, voltage inputs in excess of the rated maximum of the unit, or service, repair or modification of the product which has not been authorized or approved by SpeakerCraft. This warranty also excludes normal cosmetic deterioration caused by environmental conditions. This warranty will be void if the Serial number on the product has been removed, tampered with or defaced.

This warranty is in lieu of all other expressed warranties. If the product is defective in materials or workmanship as warranted above, the purchaser's sole remedy shall be repair or replacement as provided above. In no event will SpeakerCraft be liable for any incidental or consequential damages arising out of the use or inability to use the product, even if SpeakerCraft Inc. or a SpeakerCraft Inc. Authorized Dealer has been advised of the possibility of such damages, or for any claim by any other party. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply. All implied warranties on the product are limited to the duration of this expressed warranty. Some states do not allow limitation on the length of an implied Warranty. If the original retail purchaser resides in such a state, this limitation does not apply.

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