Instructions for installation of the Dual-Mode Component Cooler™

Product Description -- The Dual-Mode Component Cooler is shipped in “Shelf”, or “active heat shield”, configuration; it can be placed on top of a hot component which has ventilation openings in its top cover and will cool it while providing a shelf to support a second component. The second component is shielded from the heat generated by the lower component, allowing more equipment to be placed on a shelf or within a bookcase. Simply place the cooler on the lower (hot) component, then place the preamp, CD player, or other component on top of the Dual-Mode Component Cooler.

When changed to “base” configuration, it can be placed beneath a satellite receiver, DVR/PVR, amplifier, receiver or any other heat-producing device which has ventilation openings on the bottom surface. Its quiet fans are powerful enough to force a gentle stream of air up through the receiver and out the top or side openings, providing a substantial cooling effect.

In this mode of operation, it is helpful to place foam air dams on the top side of the Dual-Mode Component Cooler to force the air stream to go up into the receiver and not escape through the space between the receiver and the Dual-Mode Component Cooler; a length of adhesive-backed foam weather stripping is supplied with each Dual-Mode Component Cooler. When installed, the foam should not allow air to escape under the receiver.
NOTE: The Dual-Mode Component Cooler was designed to cool components in an open, or partially open environment, such as on a shelf, in a bookcase, or in a cabinet with no doors and/or an open back. It cannot cool components in sealed enclosures; it would circulate the same hot air within the enclosure, providing little cooling. Active Thermal Management offers a complete line of cooling equipment designed to cool entire enclosures, from the smallest to the largest, at www.activethermal.com.

Connections & Operation

After mounting the fans, select the location for the fan controller. It has 2 magnets on its flanges, allowing it to adhere to most audio-video components. Run the fan wires to the controller, and plug them onto the connectors FAN 1 or FAN 2. Place the probe where it can sense the heat coming from the component to be cooled. Plug the probe’s cable onto the connector THRM on the controller. Plug the power supply into an AC outlet that is always live, and plug the power supply’s output lead into J1 on the controller. The green led should light. When the probe’s temperature-sensitive tip reaches approximately 88-90 degrees, the fans will begin to turn and the red led will light. Use a hair dryer to test the system; do NOT use an open flame or heat-shrink gun.

Note –

When cooling modern home theater systems, the fans may run continuously. Cable boxes, satellite receivers, some whole-house amplifiers and digital program recorders run continuously. Their heat may be enough to keep the fans in operation. The Dual-mode, like all ATM products, is designed to operate continuously, drawing only a few watts of electrical power while keeping temperatures low in an enclosure.

To change from “Shelf” to “Base” mode of operation:

Using a Philips screwdriver, unscrew and remove the four long screws, spacers, and nuts holding one of the fans and the plate covering the hole in the top surface of the Dual-Mode Component Cooler. Set the cover plates and spacers aside for possible future use.
Turn the fan over so that the ATM logo, which faces DOWN in Shelf mode, faces UP, and insert the four long screws, one at a time, through the top surface and both holes in one corner of the fan. Leave the screws somewhat loose until all four are installed, and then tighten all four moderately; do not over tighten. Repeat for the second fan.

When finished, each fan will be attached as in Figure 1, and the ATM logo in the center of the fan will be visible through the top surface of the Dual-Mode Component Cooler.

To change from “Base” to “Shelf” mode of operation:

Remove the four screws and nuts holding one fan to the top surface and turn the fan over so that the ATM logo faces DOWN. Put the screws, one at a time, through the cover plate, top surface, spacer, and fan flange as in Figure 2. Leave all screws somewhat loose until all are installed, and then tighten all four moderately; do not over tighten. Repeat for the second fan.

When finished, each fan will be attached as in Figure 2, and the cover plates will be in place.