



Active Thermal Management

The trusted name in thermal

protection

Instructions for installation of the Tri-mode[®] Component Cooler

The Tri-mode Component cooler, as the name implies, can operate in one of three modes:

1. As a heat-shielding shelf, cooling a hot component with ventilation openings on its top surface, while preventing that component from overheating a second component placed above it.
2. As a bottom, or base, mounted component cooler, forcing cool air up into a component **with or without** ventilation openings on its bottom surface.
3. As a cooler for digital media extenders or other small devices.

It can run continuously when cooling devices which are always powered or only when component temperatures exceed 90 degrees Fahrenheit, when used with the optional thermal switch accessory.

NOTE: The Tri-Mode Component Cooler was designed to cool components in an open, or partially open, environment such as a shelf, a bookcase, or 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.

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Configuration – “shelf” and “base” -- The Tri-Mode Component Cooler is shipped in “shelf” configuration; it can be placed on top of a hot component which has ventilation openings in its top cover and will cool that component 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 Tri-Mode Component Cooler.



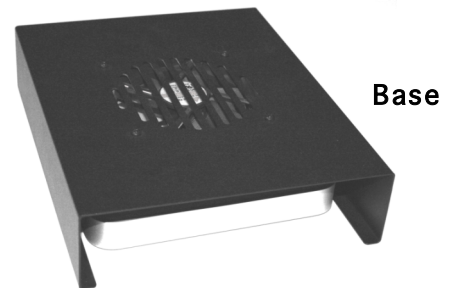
When changed to the “base” configuration, the Cooler can be placed beneath a satellite receiver, DVR/PVR, amplifier, receiver or any other small heat-producing device with ventilation openings on its bottom surface. Its quiet fans are powerful enough to force a

gentle stream of air up through the component and out the top or side openings, providing a substantial cooling effect.

In this mode of operation, it is helpful to place a foam air dam on the top surface of the Tri-Mode Component Cooler to force the air stream to go up into the component to be cooled and not escape through the space between the component and the Cooler; a length of adhesive-backed foam weather stripping is supplied with each unit. When installed, the foam should not allow air to escape under the receiver.

If the component you wish to cool has no openings on its bottom surface, install the four bumpers provided so that the component is supported above the fan. This will allow cool air to flow up against the component’s bottom surface, then away from the component. Do not use the foam stripping when the Tri-Mode component cooler is configured this way.

The base configuration is also for cooling small items such as media extenders. After reconfiguring the Tri-mode Component Cooler, simply slide the device under the fan.



To change from “Shelf” to “Base” configuration:

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Using a Philips screwdriver, unscrew and remove the eight screws and spacers holding the fan. Turn the fan over so that the label, which faces DOWN in shelf mode, faces UP, and use four screws and nuts to fasten the fan under the top surface of the Cooler. Leave the screws somewhat loose until all four are installed, and then tighten all four moderately; do not over tighten.

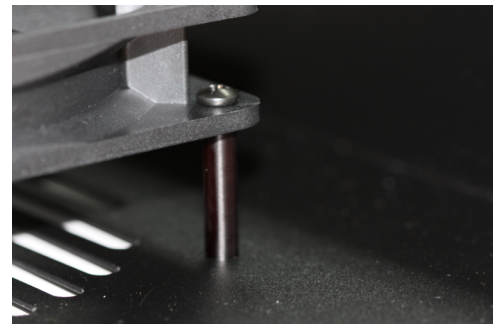
Figure 1 – Base mode fan mounting

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

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

Remove the four screws and nuts holding the fan to the top surface and turn the fan over so that the label faces DOWN (away from top surface). Fasten the fan to the spacers and the spacers to the Cooler as in Figure 2. Leave all screws somewhat loose until all are installed, and then tighten all four moderately; do not over tighten.

Figure 2 – Shelf mode fan



Operation:

Plug the lead from the wall-type power supply to the socket wire attached to the Tri-Mode Component Cooler. Plug the power supply into an AC power outlet. The fans will run quietly regardless of temperature.

Installation and operation of the (optional) thermal switch accessory:

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Disconnect the plug from the power supply which was inserted into the Cooler's power lead. Plug the power supply into the female socket connected to the thermal switch. Plug the male connector coming from the thermal switch into the Tri-Mode Component Cooler's power lead.

Fasten the thermal switch to the part of the component being cooled which normally reaches the highest temperature, using the small magnet supplied. For a surface to which magnets don't adhere, a small weight or appropriate adhesive tape may be used to insure good contact between the component and the switch. *Note that when in "shelf" mode, the thermal switch should be fastened to the component below the Tri-Mode Component Cooler.*

When the thermal switch reaches approximately 90 degrees Fahrenheit, the fan will turn on.

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