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# SEALED ENCLOSURE COOLERS: ACT-HSC HEAT SINK COOLER SERIES

#### **Overview**

Any industry that uses enclosure-housed electronic equipment that generates unwanted heat or is exposed to excessive external heat needs cabinet coolers. These enclosures, or control cabinets, are also often exposed to contaminants such as vapors, moisture, corrosives and dust. The ACT-HSC Heat Sink Cooler Series offers a passive sealed enclosure cooler design consisting of two advanced, high performance aluminum finned heat sinks bonded to opposite sides of a common efficient heat transfer mounting plate.

#### Why Choose ACT-HSC vs. Fan Cooler?

Fan coolers work well in clean environments, but they allow damaging vapors, moisture, corrosives and dust to enter the control cabinet. The ACT-HSC is sealed, meaning no dirt or water is able to enter the enclosure. The ACT-HSC series is also offered at a comparable price to fan coolers.

### **Operation**

The HSC's external fan blows the cool ambient air over the external high efficiency bonded fins reducing the internal enclosure temperature. The HSC's internal fan blows the hot enclosure air over the high efficiency bonded fins. The internal enclosure's heat is rejected to the outside of the enclosure via a common sealed heat transfer plate.







## BENEFITS

- High performance corrosion resistant nickel plated fins or NEMA 4x epoxy coated
- Dual axial ball bearing fans offer years of maintenance free operation
- Rugged, high quality construction featuring integral gasket
- High performance/cost ratio
- Easy to install
- Wide operating voltage ranges: 12, 24, 48VDC and 115 & 230VAC

Part Number	Thermal Conductance Watts/°C	Thermal Capacity Watts @ 20°C ∆T	Weight (lbs.)	Н (in")	W (in")	D* (in")	
ACT-HSC-22	22.0	440	17.0	12.00	12.00	7.88	
ACT-HSC-45	45.0	900	35.0	22.75	12.00	7.88	*Extends 3.70'
ACT-HSC-68	68.0	1,360	51.0	31.38	12.00	7.88	into cabinet

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