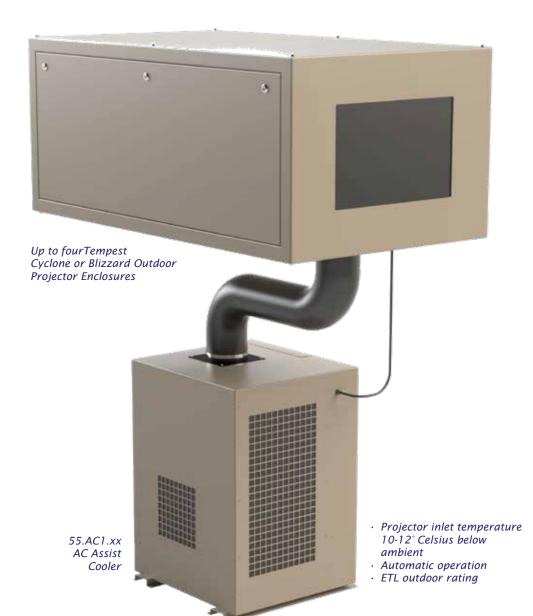


AC Assist Spot Cooler



Now you can run your projector cool in even the most extreme outdoor temperatures. Tempest AC Assist blends cooled air with filtered outside air to deliver operating temperatures within limits for even the most sensitive laser projectors, in the hottest parts of the world.

Tempest Cyclone and Blizzard enclosures have been protecting sensitive equipment for years, in the most extreme climates, and in most cases the standard enclosure does a fine job. But there are times — and places — where the only way to keep a projector within its operating limits is to cool the air it breathes. The new generation of laser projectors may also need lower ambient temperatures to achieve maximum life and/or brightness.

The active cooling unit is housed in a separate ETL-listed weatherproof enclosure, eliminating compressor vibration.

Tempest AC Assist blends cooled air through the enclosure inlet filter, only when the projector lamp is on.

Tempest AC Assist reduces projector inlet temperature 10-12°C, assuring optimal operating conditions in even the hottest locations. Each AC Assist unit may cool up to four enclosures, depending on the heat load of the projectors used.

When to Use AC Assist

Most of the time you will NOT need to use Tempest AC Assist! This chart compares expected maximum ambient temperatures at showtime (normally after sunset) and projector maximum operating temperature.

So for a projector with a 40°C environmental limit, you would be safe without AC Assist with an outside temperature in the high 30s at show time.

Above that, AC Assist may be a good idea.

Different projectors react in different ways when they reach their operating temperature limit. Some do nothing, while some may reduce brightness, and others shut down. These are important considerations when planning an installation. If high temperatures are rare, and if the projector does nothing or reduces brightness when hot, vou may decide to accept some minor inconvenience rather than add AC Assist to a project.

If the maximum operating temperature will be exceeded often, and especially with a projector that will shut down when this happens, then AC Assist is stronly recommended.

Ambient C 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 45 43 42 41 40 39 37 35 34 33 32 31

Laser Phosphor Projectors

Laser engines are sensitive to heat, and their life may be reduced by operating them for long periods towards the higher end of their environmental limits. If such temperatures are expected for a few nights of the year, the impact may be minimal. But if a significant amount of the laser engine's life will be in the upper ranges, then AC Assist would be recommended. Please consult your projector manufacturer in making this determination.

How Much Cooling?

for a temperature reduction of 10-12°C.

The Tempest AC Assist Cooler is rated at 14,000btu/hr, so can assist the cooling of projectors with thermal dissipation up to about 20,000btu. This may be a single projector enclosure, or a group of up to four enclosures housing smaller projectors.

There is no downside to exceeding the recommended cooling mix — it will simply result in a lower operating temperature.

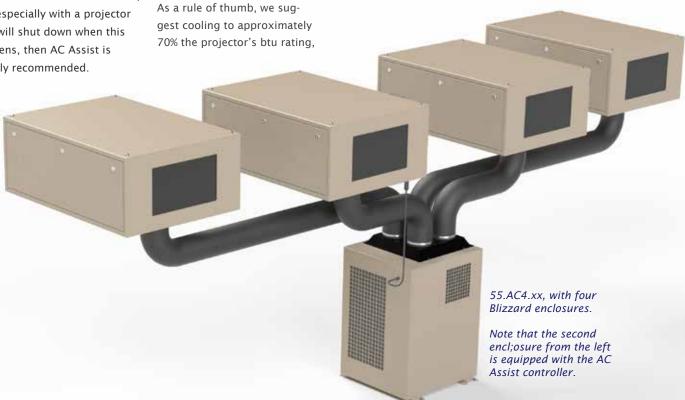
Configuration

The AC Assist unit is plug and play: Set it next to the enclosure,

connect the air hose and power connector to the enclosure, and run the condensate drain hose to a convenient location — easy!

Control

Enclosures equipped with AC Assist will automatically turn on the cooling unit whenever the controller senses power going to the lamp/light engine. In locations with cold seasons a simple disable function prevents winter operation.



Ordering Guide

Part #	Supply Voltage	# of Air Hoses	Projector BTU	
55.AC1.IN	200-240VAC, 50Hz	1	up to 24,000	Note: 55.ACx.xx part
55.AC1.US	100-120VAC, 60Hz	1	up to 24,000	number includes
55.AC2.IN	200-240VAC, 50Hz	2	up to 12,000	cooler, flexible air
55.AC2.US	100-120VAC, 60Hz	2	up to 12,000	hose(s), control and
55.AC3.IN	200-240VAC, 50Hz	3	up to 8,000	power connector,
55.AC3.US	100-120VAC, 60Hz	3	up to 8,000	as well as control
55.AC4.IN	200-240VAC, 50Hz	4	up to 6,000	installed in the
55.AC4.US	100-120VAC, 60Hz	4	up to 6,000	controlling enclosure.

AC55.VM

Anti-Vibration Mounting Kit. Recommended when the AC Assist cooler and projector enclosure are mounted on the same concrete pad or structural frame, especially in long-throw applications.

Specification

Cooling Capacity: 14,000btu/hr* Refrigerant: R-410A

Electrical:

55.ACx.IN 200-250VAC

> 3,000W 50/60Hz

Weight: 250lb/114kg

55.ACx.US 100-125VAC

3,000W

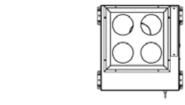
50/60Hz

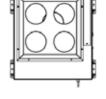
220lb/100kg Weight:

Hose:

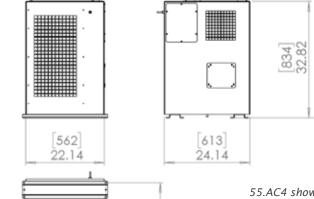
Insulated, flexible, 150mm (6") ID Max length: 4m (13')

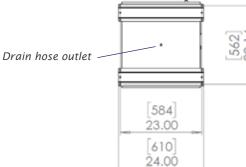
Compliance: ETL, CE











55.AC4 shown here. All versions same dimensions

