TEMPEST

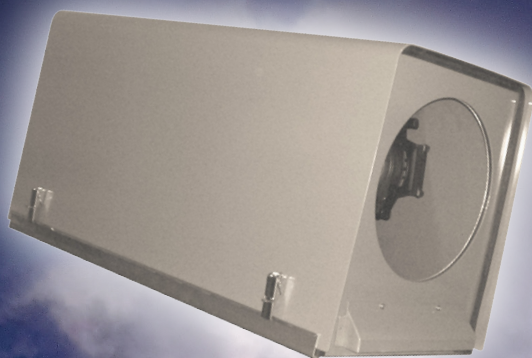## Any Light. Anywhere.

Thunder 6600 enclosure, for most standard ellipsoidal spotlights – and plenty of room for accessories.

THUNDER
Lighting Enclosures

Any light, any place, any weather.

Now you can use conventional stage lights outside, in any climate.

Tempest's Thunder Lighting Enclosures are the right way to use conventional stage lights in outdoor locations. Thunder comes in a wide range of sizes, for all popular spotlights and effects projectors, and custom sizes are available to special order for luminaires up to 2.5kW.
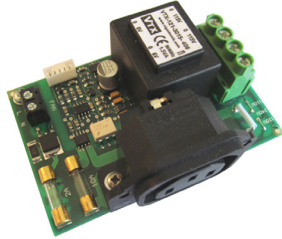
Thunder now comes as standard with Tempest's new MiniDEC™ controller, and may be specified with DEC3™ control for full environmental and condensation protection.

You're going to like using Thunder on your next outdoor lighting project.

Specification

Construction Aluminum, plated and epoxy powder coated, and stainless steel

Glass Tempered optical glass window

Mounting Two stainless steel Unistrut channels on base.

Security Heavy duty stainless steel latches, may be padlocked for extra security

Base Color Light bronze powder coat. Custom colors to order.

Control Tempest Lighting MiniDEC™ control system. MiniDEC monitors temperature and power to the lamp, controls cooling and changes air when the lamp is off to prevent overheating in direct sun.
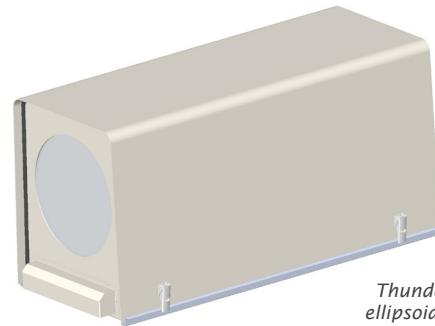
Cooling High-power AC fan changes filtered air every 1-2 seconds when luminaire lamp is on

Cooldown Fans run for 5 minutes after lamp turns off

DMX DMX wiring access for luminaire control

Power 100-120V or 200-240VAC, 50/60Hz, single or split feed wiring for enclosure and luminaire

Wiring Separate Conduit entries for AC power and DMX

Luminaire Power Outlet IEC 3-pin receptacle (rated 10amp 230V, 15amp 120V). Rewirable plug included.

Orientation May be installed base-up or base-down

DEC Option DEC3 Control, with full temperature and anti-condensation management, DMX and RDM remote monitoring functions

Scan Cover UV resistant acrylic cover for moving mirror scan luminaires. Large radius prevents image distortion.

Thunder for Spotlights and Effects Projectors

Thunder enclosures come in a range of standard sizes to fit most popular stage lights and effects projectors. Luminaires mount to a stainless steel Unistrut rail inside the enclosure, allowing simple front-to-back position adjustment.

Thunder 6600 Most standard ellipsoidal spotlights

Thunder 6690 Rosco X24 and similar effects projectors

Thunder 6700 Most 10˚ ellipsoidals and smaller HMI profiles

Thunder 6800 Most 5˚ ellipsoidals and 1200W effects projectors
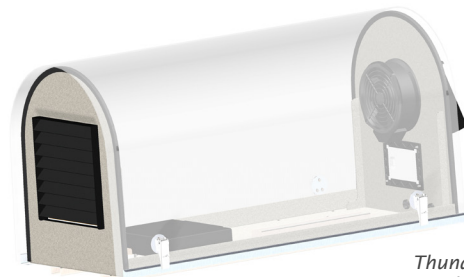
Thunder 6700, for 10˚ ellipsoidals and smaller HMI profiles

Thunder Scan for Strobes and Moving Mirror Lights

Thunder is available for strobes and a wide range of moving mirror scanners in three standard sizes. Thunder Scan comes with a clear, UV-resistant acrylic cover, radiused around the mirror position to prevent optical aberrations. Thunder Scan models are available in three standard sizes with MiniDEC or DEC3 control.

Thunder Scan 6650 Strobes — Martin Atomic, Solaris Flare etc

Small Scans — MiniScan, Martin Mania etc

Thunder Scan 6750 Midsize Scans — Trackspot Bolt

Thunder Scan 6850 Large Scans — Golden Scan, Cyber 2.0
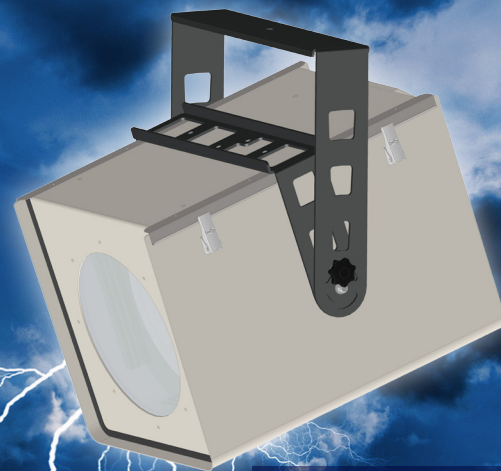
Thunder 6750, for Midsize Scanners

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Custom Thunder

Thunder enclosures may be customized for many applications, such as ballasts, strobes, lasers, even big HMIs for TV production.

Of course, once we've built one it's no longer really custom, so here are some Thunders that we've made for people that might fit the bill for your next outdoor project.
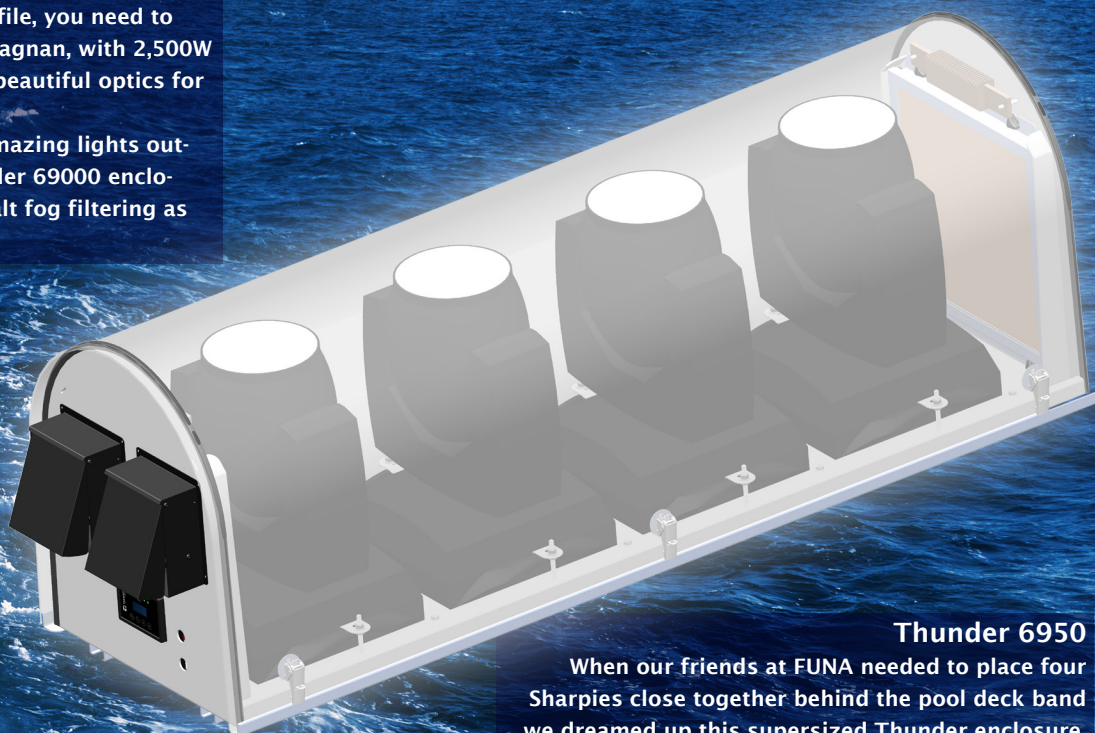
Thunder 6670

for AAdynTech Punch Plus LED luminaire. 6670 is available from AAdyn-Tech with either the stadium hanger shown or a manual Yoke option.

Thunder 6900

If you want a REALLY bright profile, you need to check out the Robert Juliat d'Artagnan, with 2,500W of HMI power in that beam and beautiful optics for pattern projection to boot.

Now you can safely use these amazing lights outdoors, using the Tempest Thunder 69000 enclosure, with DEC3.3 control and salt fog filtering as standard equipment.
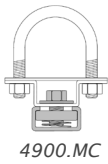
Thunder 6950

When our friends at FUNA needed to place four Sharpies close together behind the pool deck band we dreamed up this supersized Thunder enclosure, complete with DEC3.3 and salt-fog filtering for a long life at sea. Now you can try it too!

Mounting Kits

Two parallel 1 5/8" x 13/16" (41 x 21mm) Unistrut. Use standard Unistrut accessories or order any of the Tempest mounting kits shown here.
Order two or four mounting kits for each enclosure, depending on mounting method.
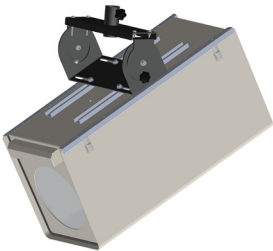
4900.MB Stainless Steel Bolt kit: 1/2" bolt, washer, Spring nut (shaded)

4900.MC Stainless Steel pipe clamp kit, for pipes 1.5" (38mm) to 2" (50mm) OD.

4925.MC Stainless Steel pipe clamp kit, for pipes 2" (50mm) to 2.5"/64mm OD.

4900.MC

XYZ Yoke Kit

The Blizzard XYZ Mount is a heavy duty yoke that attaches to the Unistrut mounting rails on the base of any Blizzard or Thundser enclosure, where it can be mounted at the center of gravity for excellent balance. Range of adjustment:

Pan   360°
Tilt   +60° to -90°
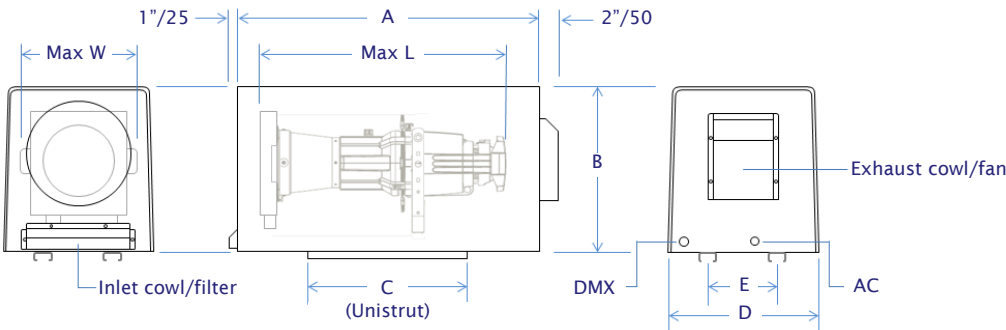**Roll**   ±10°
Part #   *6500.XYZ*

Thermal Insulation Kit

The factory-fitted TI kit adds 1"/25mm of thermal insulation to the inside of any Thunder enclosure (not available for Thunder Scan). This helps to moderate extreme temperatures in hot and cold locations. Recommended where ambient temperatures are expected >40°C or <0°C.
Part #   *6600.TI*

Dimensions

CAD drawings in .dwg and .pdf format are available for download at
www.tempest.org

	Enclosure (*/mm*)					Luminaire (*/mm*)		
Model	**A**	**B**	**C**	**D**	**E**	**Max L**	**Max W**	**Max Watts**
6690	24/610	14/356	15/381	16.5/419	8/203	15/381	14.5/368	700
6600	32.5/830	16.5/420	15/380	15/380	8/203	26/660	14/360	1,200
6700	38.5/980	19/480	15/380	16.5/420	12/305	32.5/830	15.5/380	1,200
6800 *	51/1295	22/565	48/1220	20/508	8/203	45/1,143	18/457	1,200
Check with factory for models not shown here								

** NEW — **Thunder 6800 has been stretched to accept the Selecon Pacific 5° and 5-13° Zoom***

Part Number Guide

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Model	**Description**	**Electrical**		**Optional Suffix**	
6600	Thunder	US	120V, NEMA standard	DEC	DEC Climate Control
6650	Thunder Scan, Small		*North America*	X	Custom (contact factory)
6690	Thunder, Rosco X-Effect	IN	230V, CE Standard		
6700	Thunder Stretch		*International*		
6750	Thunder Scan Stretch				
6800	Thunder X-Stretch				
6850	Thunder Scan X-Stretch				

Shipping Weights/Dims.

Thunder 6600,6650	36"x18"x18"(h), 45lb	91 x 46 x 46cm, 20kg
Thunder 6690	36"x18"x18"(h), 30lb	91 x 46 x 46cm, 14kg
Thunder 6700, 6750	48"x24"x24"(h), 58lb	122 x 117 x 117cm, 26kg
Thunder 6800, 6850	48"x24"x24"(h), 70lb	122 x 117 x 117cm, 32k

All: Schedule B Export Code: 8536.30.0000

User Manual

For more detailed information and installation/operating instructions, download the Thunder User Manual from www.tempest.org

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Digital Enclosure Control

All Thunder enclosures may be ordered upgraded to include Tempest's patented Digital Enclosure Control System (DEC), to provide not only weather protection but complete environmental control, DMX and RDM remote monitoring.

DEC3.3 with Tempest's new Goldilocks™ operating system, keeps your equipment warm when it's cold, cool when it's hot, and prevents deadly condensation from corroding your equipment over the long haul. Remember, it's not heat or cold that kills your equipment outside — it's condensation.

- **Cooling**: DEC monitors the current to your equipment and runs a powerful fan when it sees that your lights are running. DEC changes the air inside your enclosure about once a second, removing immediately the heat generated by your lamp. During the day if it gets hot the fan kicks in and cools things down.

- **Heat**: in cold areas we monitor temperature and maintain it above a minimum level that you can set – usually freezing point. So your equipment will start first time, even when it's 20 below out there.

- **Condensation**: See the panel on the right. Goldilocks raises the temperature any time there's a risk of condensation, stopping it before it starts.

- **DMX**: assign a DMX address to the enclosure and use it to switch power to the equipment inside. Now you can run a hard reset from the control room without climbing a ladder!

- **RDM**: configure and monitor your enclosures from the control room over RDM – a real boon in larger systems.

🇺🇸 *Made in the USA*
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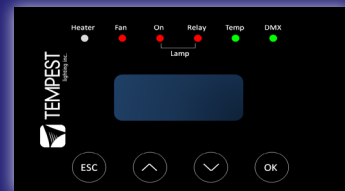
11845 Wicks Street, Los Angeles, CA 91352, USA
www.tempest.org   info@tempest.org
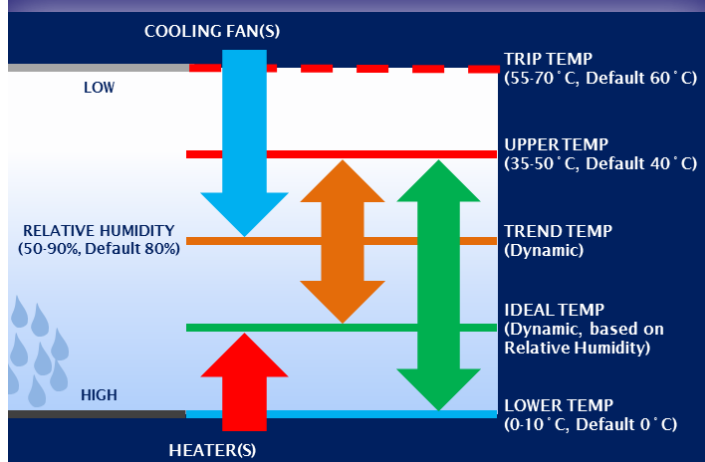t: +1 888 649 6743   f: +1 818 982 5582

Goldilocks™

How do we keep your lights from roasting when it's 50˚C and there's no shade?

And prevent condensation from destroying your investment overnight?

Tempest's new Goldilocks™ Operating System (patents pending) brings enclosure control to a new level:

Goldilocks keeps the air temperature inside your enclosure just right, removing heat from the projector when the lamp is on or when the enclosure is heated by the sun. We're changing the air about once every second.

COOLING FAN(S)

LOW

RELATIVE HUMIDITY (50-90%, Default 80%)

HIGH

HEATER(S)

TRIP TEMP (55-70˚C, Default 60˚C)

UPPER TEMP (35-50˚C, Default 40˚C)

TREND TEMP (Dynamic)

IDEAL TEMP (Dynamic, based on Relative Humidity)

LOWER TEMP (0-10˚C, Default 0˚C)

Goldilocks uses heaters to maintain a minimum temperature in cold climates.

And Goldilocks tracks temperature and humidity 24/7, keeping relative humidity inside your enclosure just right by using heaters to raise the air temperature when needed, adapting constantly to prevent deadly condensation.

Remote Monitoring

Now you ca use this handy PC interface to monitor all the environmental and electrical data over your entire system. The JESE RDM-TRI comes with the GetSet PC software suite and functions as an efficient front end to your entire RDM network, as well as featuring Tempest-specific dashboards for enclosure management.

Tempest part #: 2000.190

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