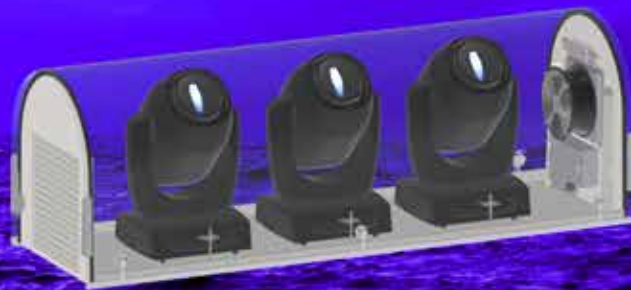




Monsoon

Marine Grade
In-Line Lighting
Enclosures



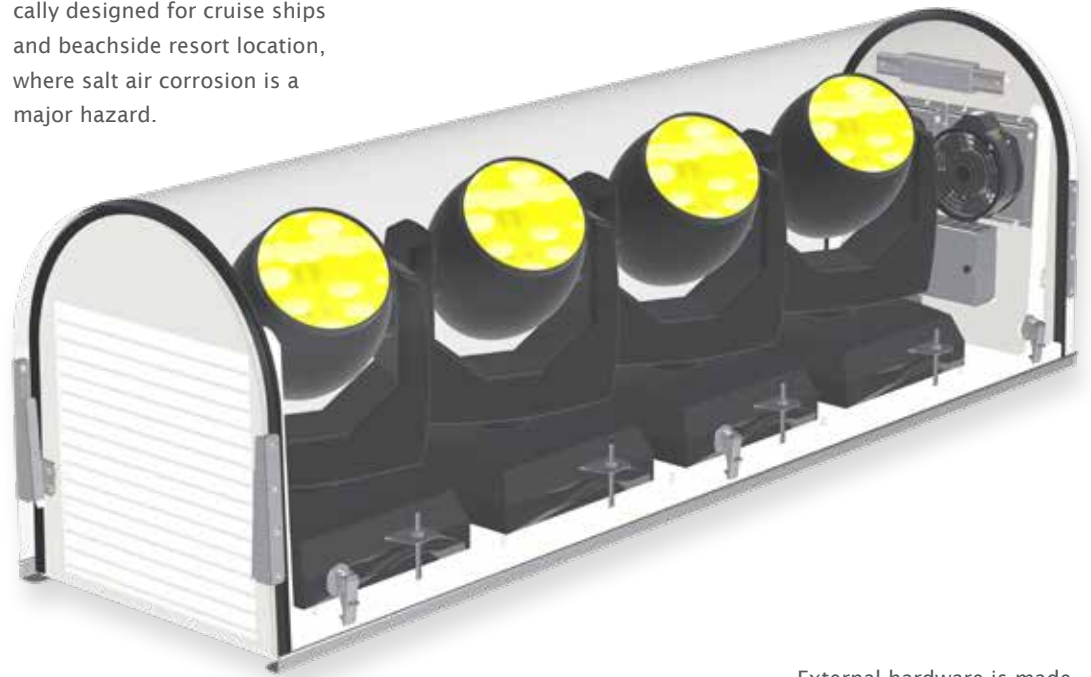
Monsoon Lighting Enclosures

Tempest, the world's leading manufacturer of specialist lighting and projector enclosures, introduces Monsoon, the only marine grade lighting enclosure in the world designed to protect multiple automated luminaires from weather, condensation, and salt fog.

Monsoon enclosures house groups of moving head luminaires, where space is at a premium. Developed from fifteen years experience protecting lights in all climates around the world, Monsoon is specifically designed for cruise ships and beachside resort location, where salt air corrosion is a major hazard.

Monsoon offers the best ever protection:

- Hydrophobic HEPA filter prevents ingress of moisture and moisture-born contaminants like salt or chlorine
- Powerful fans change the air every 1-2 seconds in the enclosure when the luminaires are on, maintaining a cool operating environment and optimizing equipment and lamp life.
- Positive pressure environment is maintained by running the fans at low speed when the luminaire lamp is off, preventing contaminants entering through the exhaust path.
- Aluminum parts are specially treated prior to painting, to prevent corrosion in saline environments



Monsoon 66.100, shown here in base-down configuration with four Sharpy luminaires

- External hardware is made from AISI 316 stainless steel, for best possible corrosion resistance.

Thousands of Tempest outdoor enclosures are in daily use in every climate type there is, from the frozen North to the tropics and deserts, in theme parks, resorts, attractions and cruise ships.

Monsoon continues this tradition, offering you the best protection in the world for your lighting investment.

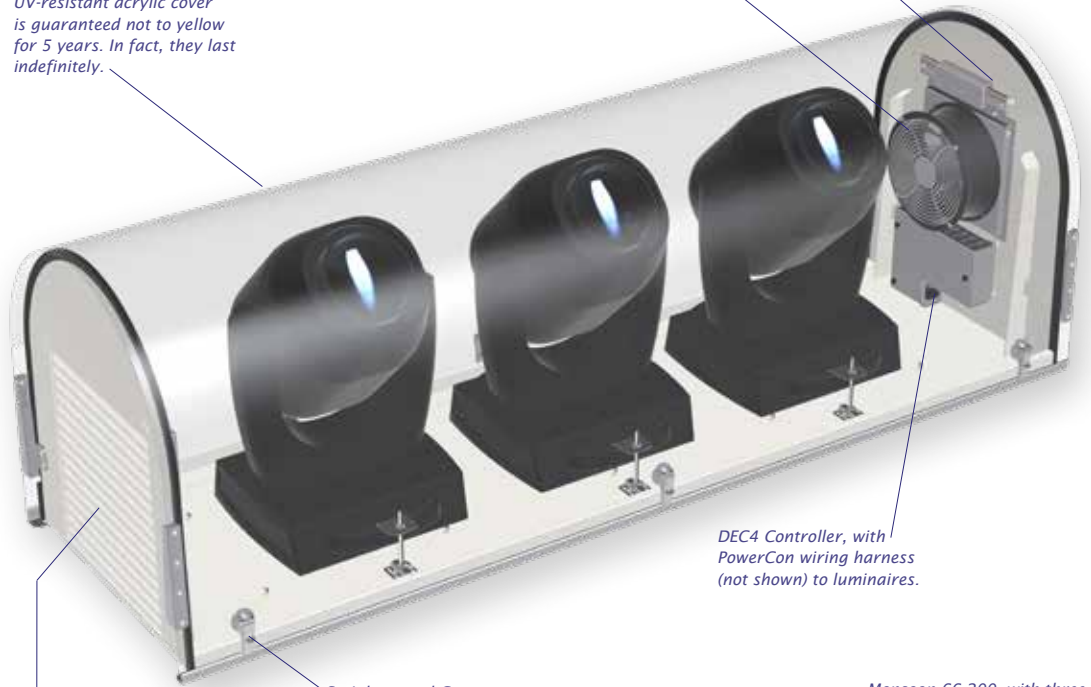
Monsoon Lighting Enclosures

Monsoon

UV-resistant acrylic cover is guaranteed not to yellow for 5 years. In fact, they last indefinitely.

Powerful AC fans keep the luminaires cool when lit, and maintain positive pressure at all other times to prevent salt air ingress.

Heaters maintain minimum temperatures and combat condensation.

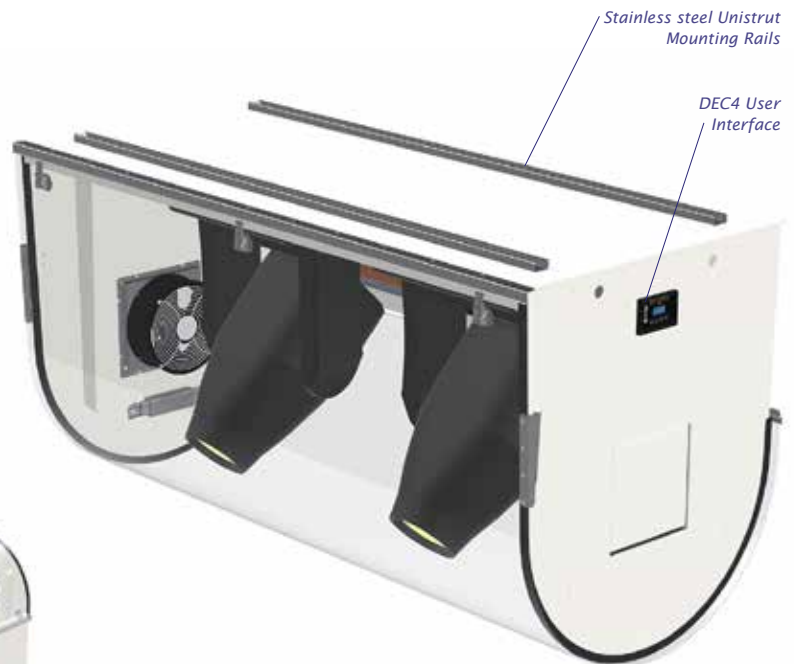


DEC4 Controller, with PowerCon wiring harness (not shown) to luminaires.

Stainless steel Cover Latches with padlock rings for additional security if required

Salt Fog Inlet Filter/ Louver keeps out dust, salt and other contaminants

Monsoon 66.200, with three Super Sharpy luminaires



Stainless steel Unistrut Mounting Rails

DEC4 User Interface



Monsoon 66.400 has two inlet filters on the back panel, and one exhaust fan at each end

Monsoon 66.400V, with two Mac Viper luminaires

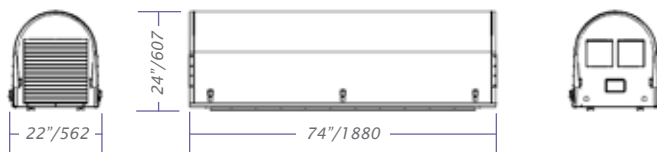
Monsoon

Lighting Enclosures

Which Monsoon?

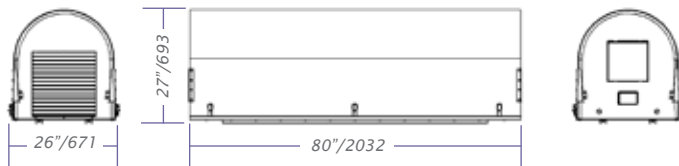
Monsoon 66.100

Luminaire max:
 A: 20"/508mm
 B: 16"/406mm
 Watts: 400W



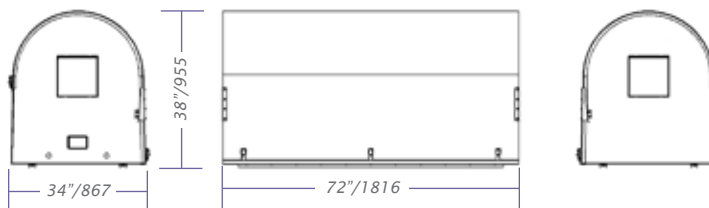
Monsoon 66.200

Luminaire max:
 A: 24"/610mm
 B: 20"/508mm
 Watts: 600W



Monsoon 66.400

Luminaire max:
 A: 34"/864mm
 B: 26"/660mm
 Watts: 1,800W



Base Down

(Standard Configuration)



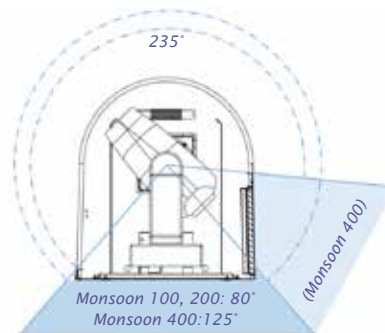
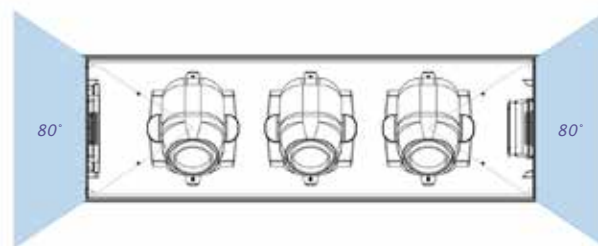
Base Up

Add V to model number
 (see ordering guide)

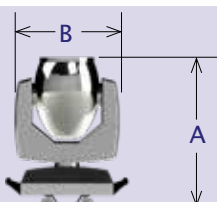


Clipping Angles

This is a guide only — actual angles may vary considerably with luminaire type.



Notes:



- Luminaire Max Watts means total power consumption, not lamp wattage
- LED luminaires with multiple LED circuits — it is ok to exceed max watts if luminaires will rarely be used in white

Download DWG, PDF CAD Drawings and 3D-DWG Bloccks at www.tempest.biz



Monsoon Lighting Enclosures

Tempest System Manager is a Windows app running on a local PC connected to your enclosures over a local area network.

TSM discovers any Tempest enclosures present on the network at initialization, and monitors system attributes in real time, including lamp, fan and heater status, temperature, relative humidity and more.

TSM may also be used to upload firmware updates to enclosure controllers over the network, without having to visit each enclosure.

The TSM license includes 12 months unlimited user support from Tempest electronics partner JESE, and continuing support is available for a modest annual fee.

Tempest System Manager

Index	Description	Label	Status	Voltage	Current	RPM	Temp °C	H% %	Fan %
1	DECA Controller	Cyclone 330 Left 1	Lamp On	231V	12.2A	45.7%	23.4°C	0.0%	100.0%
2	DECA Controller	Cyclone 330 Left 2	Lamp on	231V	12.2A	46.0%	23.8°C	0.0%	100.0%
3	DECA Controller	Cyclone 330 Left 3	Override	231V	0.0A	49.4%	27.6°C	0.0%	0.0%
4	DECA Controller	Cyclone 330 Left 4	Fripped	231V	0.1A	1.2%	86.2°C	0.0%	100.0%
5	DECA Controller	Cyclone 330 Left 5	Lamp on	231V	12.2A	46.1%	23.4°C	0.0%	100.0%
6	DECA Controller	Cyclone 330 Left 6	Lamp on	231V	12.2A	46.3%	23.5°C	0.0%	100.0%
7	DECA Controller	Cyclone 330 Right 1	Lamp on	231V	12.2A	46.4%	23.8°C	0.0%	100.0%
8	DECA Controller	Cyclone 330 Right 2	Lamp on	231V	12.2A	46.3%	23.5°C	0.0%	100.0%
9	DECA Controller	Cyclone 330 Right 3	Lamp on	231V	12.2A	46.0%	23.2°C	0.0%	100.0%
10	DECA Controller	Cyclone 330 Right 4	Lamp on	231V	12.2A	46.1%	23.1°C	0.0%	100.0%
11	DECA C	ard 100 UST 1	Lamp on	231V	12.2A	46.0%	23.7°C	0.0%	100.0%
12	DECA C	ard 100 UST 2	Lamp on	231V	12.2A	46.2%	23.4°C	0.0%	100.0%
13	DECA C	ard 100 UST 3	Standby	231V	0.2A	51.3%	22.1°C	0.0%	0.0%
14	DECA C	ard 100 UST 4	Standby	231V	0.2A	51.8%	22.0°C	0.0%	0.0%
15	DECA C	ard 100 UST 5	Standby	231V	0.2A	51.4%	22.2°C	0.0%	0.0%
16	DECA C	ard 100 UST 6	Standby	231V	0.2A	51.3%	22.5°C	0.0%	0.0%
17	DECA C	ard 100 UST 7	Standby	231V	0.2A	51.3%	21.8°C	0.0%	0.0%
18	DECA C	ard 100 UST 8	Standby	231V	0.2A	51.6%	22.1°C	0.0%	0.0%
19	DECA C	ard 100 UST 9	Standby	231V	0.2A	51.5%	21.6°C	0.0%	0.0%
20	DECA Controller	Blizzard 100 UST 8	Standby	231V	0.2A	51.7%	22.2°C	0.0%	0.0%

Monitoring Connections

There are two ways to connect enclosures to the TSM PC:

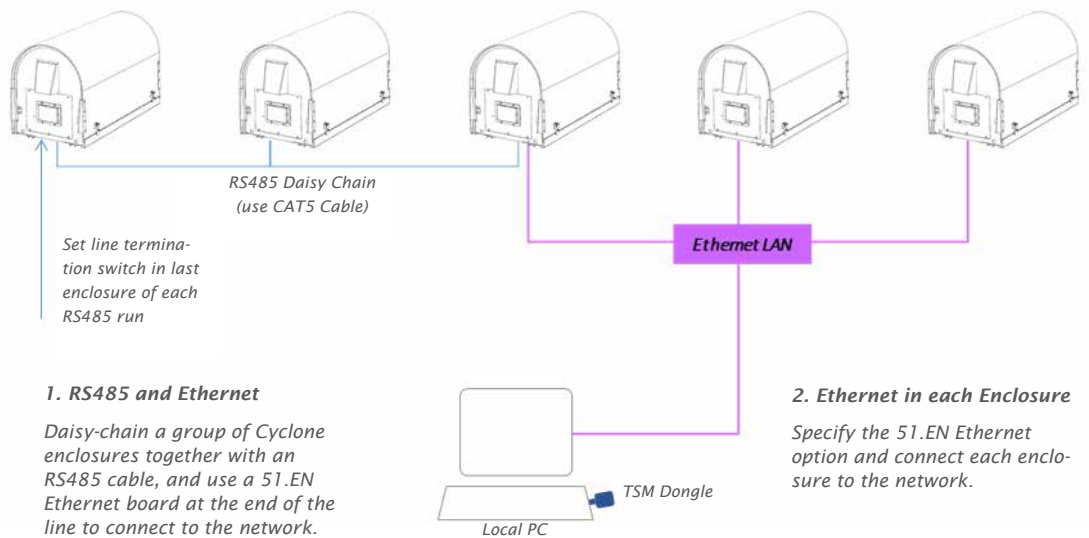
TSM Model Numbers

- 51.TSM.10 Up to 10 enclosures
- 51.TSM.25 Up to 25 enclosures
- 51.TSM.50 Over 25 enclosures

51.EN Ethernet Option

51.EN Ethernet Option

51.EN Ethernet Option



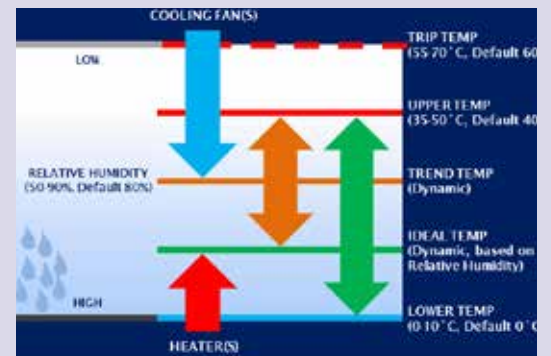
Goldilocks™

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

Goldilocks keeps the air temperature inside your enclosure just right, removing heat when the lamp is on or when the enclosure is heated by the sun. We're changing the air every few seconds.

Goldilocks uses a heater 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.



Ordering Guide

Part #	Description	↕	Volts 50/60Hz	Shipping ** Dimensions (lwh) in [cm]	Shipping Weight lbs [kg]
66.100.IN	Monsoon Quad, Base Down	↑	200-230*	80x30x30 [203x76x76]	260 [118]
66.100.INV	Monsoon Quad, Base Up	↓	200-230*	80x30x30 [203x76x76]	260 [118]
66.200.IN	Monsoon Trio, Base Down	→	200-230*	86x32x34 [218x81x86]	295 [134]
66.200.INV	Monsoon Trio, Base Up	↑	200-230	86x32x34 [218x81x86]	295 [134]
66.400.IN	Monsoon Duo, Base Down	↓	200-230	78x40x44 [198x101x112]	315 [143]
66.400.INV	Monsoon Duo, Base Up	↑	200-230	78x40x44 [198x101x112]	315 [143]

Options

51.EN	Ethernet Board (Links an enclosure or a group of enclosures with RS485 boards to an Ethernet network, for use with TEMP protocol)
51.TSM.xx	Tempest System Manager
51.HF.15	Spare Salt Fog Inlet Filter
0000.CL	Custom Base Color (standard is RAL9003 White Gloss). Specify Black or any RAL number

All Schedule B Export Code: 9405.99.0000

All Monsoon Enclosures are built to order. Please consult factory for lead times.

All sales are subject to Tempest Lighting, Inc. Standard Terms and Conditions, available for download at www.tempest.biz.

Custom Colors

All the enclosures in this brochure are shown in Monsoon standard white (RAL 9003 Gloss) finish. Black or any RAL color are available to special order.



Monsoon Configurator

Please complete this form and email to us at info@tempest.biz

Name	
Company	
Email	
Phone	
Project Name and Location	
Luminaire Make and Model	
Luminaire Quantity per Enclosure	
Monsoon Model	
Quantity	
Destination Country	
Install Date	
Orientation	Clear Cover Up <input type="checkbox"/> Down <input type="checkbox"/> Horizontal <input type="checkbox"/>
Required Options	
51.EN Ethernet Board	Yes, Qty _____ No <input type="checkbox"/>
Spare Inlet Filter	Yes, Qty _____ No <input type="checkbox"/>
Color	Standard, RAL 9003 White Gloss <input type="checkbox"/>
	Custom, RAL # _____
	Gloss Level _____%

Custom Requests:

Factory Use Only:	
SO Number	
Date	
Electrical	IEC <input type="checkbox"/> NEMA <input type="checkbox"/>

