TEMPEST
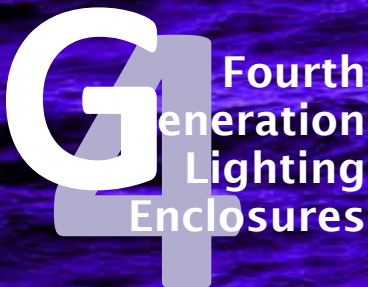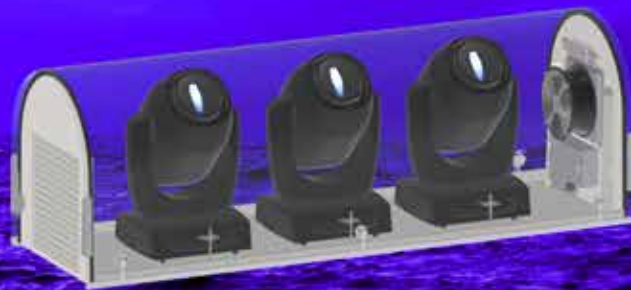
Monsoon G4

Marine Grade In-Line Lighting Enclosures


G4 Fourth Generation Lighting Enclosures

Monsoon
Lighting Enclosures

Tempest, the world's leading manufacturer of specialist lighting and projector enclosures, introduces Monsoon G4, 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
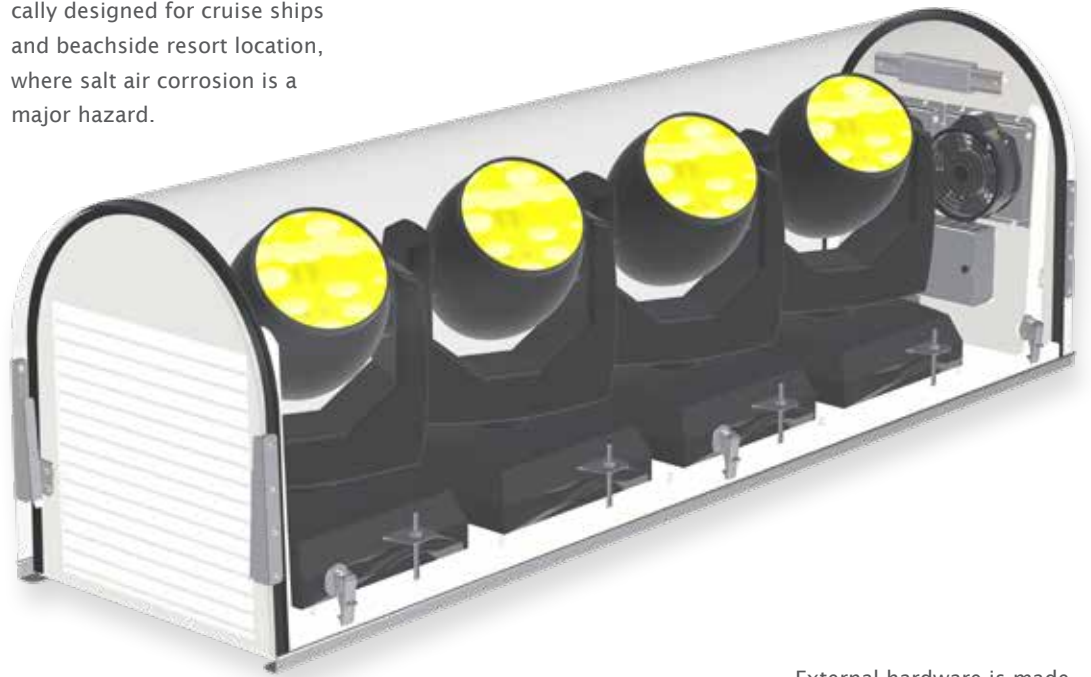
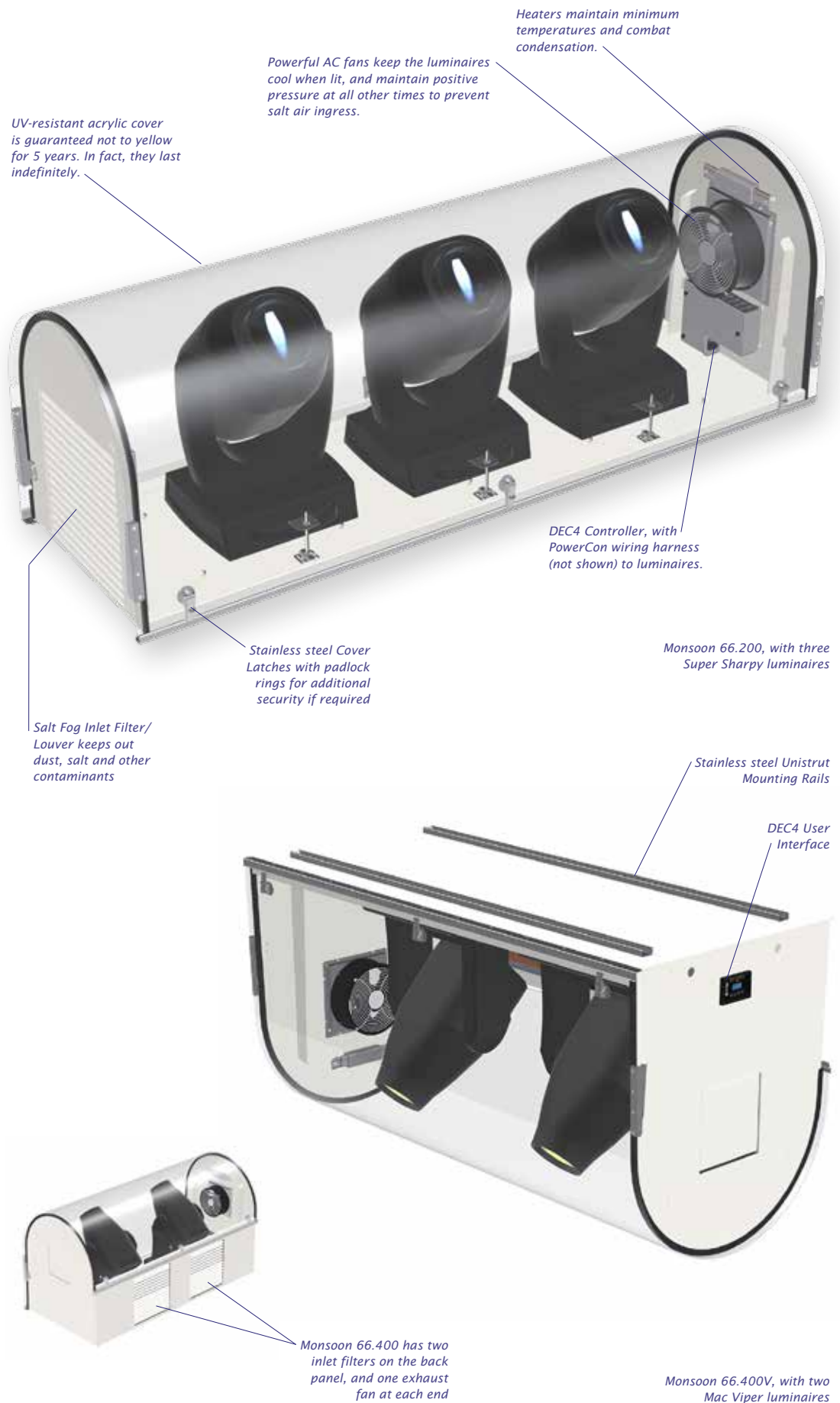*Monsoon G4 66.100, shown here in base-down configuration with four Sharpy luminaires*

· 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 G4 continues this tradition, offering you the best protectionWW in the world for your lighting investment.

TEMPEST

Monsoon G4

Heaters maintain minimum temperatures and combat condensation.

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

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

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

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

Monsoon 66.200, with three Super Sharpy luminaires

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

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

TEMPEST

Monsoon
Lighting Enclosures

Monsoon 66.100

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

24"/607
22"/562
74"/1880
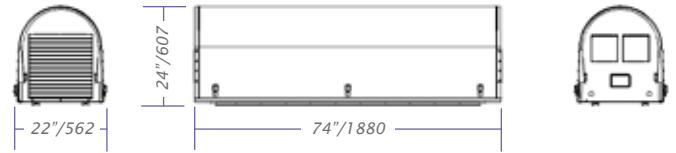
Monsoon 66.200

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

27"/693
26"/671
80"/2032
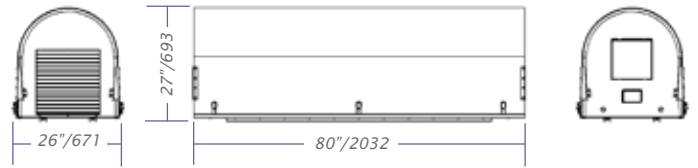
Monsoon 66.400

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

38"/955
34"/867
72"/1816
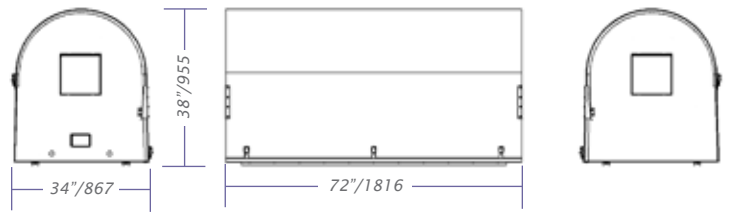
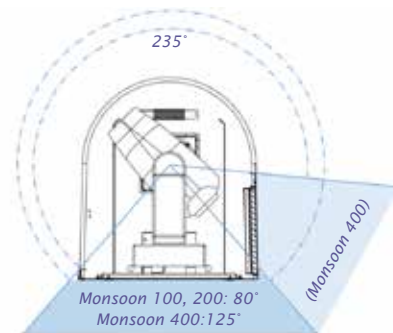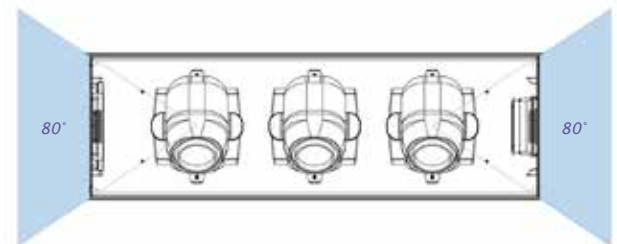### Base Down

(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.

80°   80°

235°

Monsoon 100, 200: 80°
Monsoon 400:125°
(Monsoon 400)

Notes:

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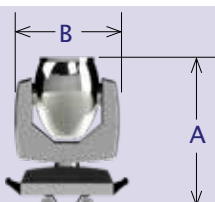
· Luminaire Max Watts means total power consumption, not lamp wattage
· LED luminaires with multiple LED circuits — it is ok to exceed max watts if luminaires will rarely be used in white

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

TEMPEST

Monsoon
Lighting Enclosures

Goldilocks™

How do we keep moving lights from melting when it's 50°C and there's no shade?

And prevent condensation from destroying your equipment overnight?

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 from the luminaire when the lamp is on or when the enclosure is heated by the sun. 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

It's important to understand that most Tornado installations are running on factory default settings and are not connected to any kind of network. In many cases that's just fine, but in larger systems or mission-critical applications a remote monitoring sysyem is a lifesaver.

Tornado reports everything it knows on the user interface display on the back door. Now you can get the same information remotely, in several different ways:

TCP/IP Direct

Plug in an Ethernet board to your Monsoon enclosure, and now you can find out what's going on in the enclosure. Temperature, humidity, line voltage, current, projector, fan and heater status are just some of the data you can monitor using this feature.

Use Tempest's prepackaged front end, write your own, or integrate with many popular projector control protocols.

RS485 to TCP/IP

For larger systems we offer a simple RS485 plug-in board so you can daisy-chain between groups of enclosures, bridging to Ethernet at one or more
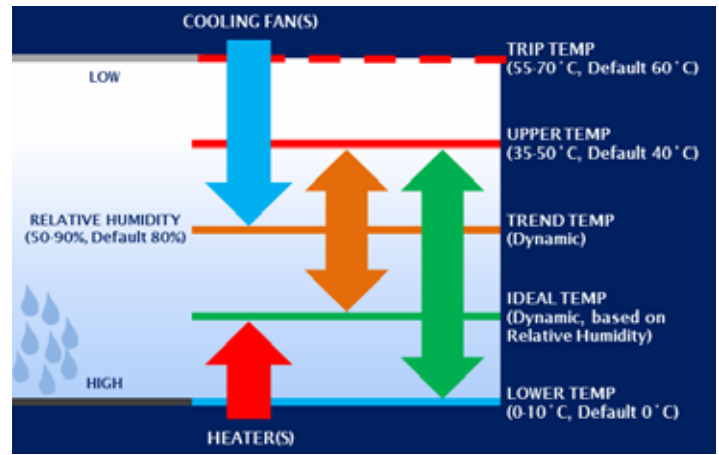
Data Logging

Also new with G4, Goldilocks logs all system events for a week, providing invaluable insights in the event of a field service issue. Data logs will be recorded longer term in the G4 System Manager (see below) and will be available locally via USB or remotely over a network or the internet.
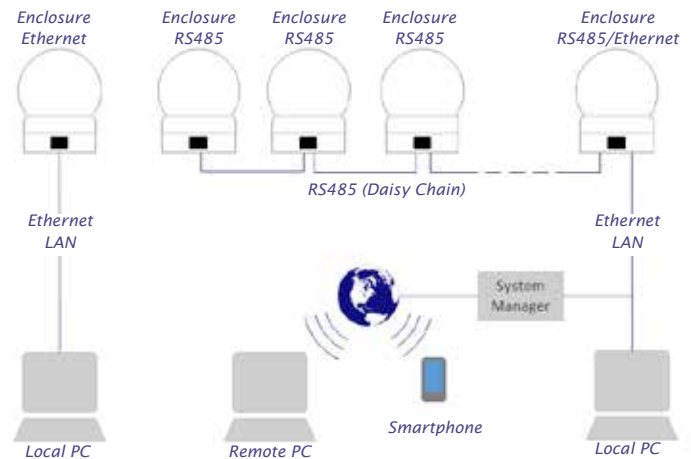
enclosure locations. Either way, you get all the information we know about back in the control room.

Web-based Monitoring

With the addition of a Tempest G4 System Manager (coming soon), the system now serves up a web page that can be monitored anywhere.

With the G4 System Manager, Tempest will offer a real-time system monitoring service, alerting you by email if anything happens to your system.

And on your Smartphone!

Not cool enough for you? System Monitor will also feature a smartphone ap, so you can stay connected to your Tempest enclosures anytime, anywhere.

For more on DEC4, Goldilocks and remote monitoring, download the Monsoon User Manual from www.tempest.biz

TEMPEST

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.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.

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 ☐ Down ☐ Horizontal ☐
Required Options	
51.EN Ethernet Board	Yes, Qty _____ No ☐
Spare Inlet Filter	Yes, Qty _____ No ☐
Color	Standard, RAL 9003 White Gloss ☐
	Custom, RAL # _____ Gloss Level _____%

Custom Requests:

Factory Use Only:		
SO Number		
Date		
Electrical	IEC ☐	NEMA ☐

![US flag] *Made in the USA*
©Tempest Lighting, Inc., July 2019
In the interest of continuous product improvement, specifications are subject to change without notice

Tempest Lighting, Inc.,
11845 Wicks Street, Sun Valley, CA 91352, USA
www.tempest.biz   info@tempest.biz
t: +1 818 787 8984   f: +1 818 252 7101