Typhoon

Rental & Staging Projector Enclosures

Typhoon
Rental & Staging Projector Enclosures

Typhoon is the all-weather, go-anywhere, breathe anything protection you always needed for delicate and expensive digital projectors on tours, outdoor events and those smoky TV specials where they come back full of cracked oil...

Typhoon is made from a strong aluminum chassis, with stainless steel hardware for great strength and durability in the rough-and-tumble world of rental and staging.

Typhoon models are available for most popular large-format rental projectors. Typhoon can be configured on the fly for landscape or portrait operation. Typhoon Projector Mounts are customized for each projector type, and allow the projector to travel inside the Typhoon enclosure. Set up the projector in the rental shop and save time on site! We can also design your Typhoon to house more than one projector type, to maximize your return on this investment.

Talking of investment return, Tempest features rental companies with our equipment on our web site, and since we will never rent our products, we refer all such enquiries to our Typhoon customers.

Typhoon comes with rigging points top, bottom and on both sides; a wide range of rigging accessories makes it easy to configure for any kind of event.

Typhoon's unique connector panel is totally configurable for any type of power connector and up to eleven signal feedthroughs of any type. Just tell us what you need, and Typhoon will fit in right away to your existing wiring infrastructure.

Typhoon 54.210 with Grab Handle Kit 54.GH.210

Rear view of the same enclosure, configured for portrait operation, with truss kit 54.TR.210. The exhaust louver and connector panel rotate 90 degrees in portrait mode.

New Feature: This security ring allows you to chain the enclosure to something solid on outside jobs.

We get it — rental companies already have power and distribution equipment, so we'll configure your Typhoon enclosures to work with your existing cabling.

The rubber flap over the connector panel conforms around the cables when in use and keeps the weather off. Use tape or cable ties to wrap it around the cables.

Customization

Your needs are specific to your operation - we get that. So most Typhoon orders are at least semi-custom, to fit seamlessly to our customers' needs.

We will be happy to design the perfect Typhoon for you: perhaps you need it to work with several different projectors? No problem.

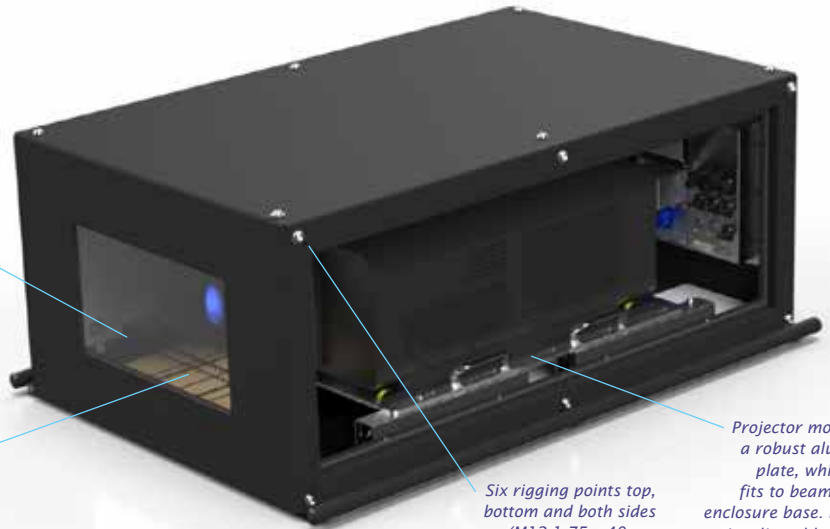You need a special rigging accessory that we didn't think of yet? Great!

And all Typhoons come ready to connect seamlessly to your power and signal cabling systems - just read on...

TEMPEST

Typhoon

Rental & Staging Projector Enclosures

Tempered low-iron optical grade port glass for strength and perfect imaging

Typhoon's hydrophobic HEPA inlet filter keeps out dust, oil and salt fog.

Six rigging points top, bottom and both sides (M12-1.75 x 40mm stainless steel bolts supplied)

Projector mounts on a robust aluminum plate, which then fits to beams in the enclosure base. Position is adjustable front to back to accomodate different lenses.

Connector Panel — Power

Choose a power inlet connector type to suit your cabling (for US/Japan a separate 100-120V inlet is provided for aux equipment used inside the enclosure).

Connector Panel — Signal

Choose up to nine Neutrik feedthrough connectors of any type, plus up to two DVI feedthroughs (total 11 connectors). Specify label text for each one and we will take care of that too!

8mm Hex Key for door latches and rigging bolts — don't lose it!

Security Ring — chain it to something on outside jobs...

Up to 2 DVI feedthroughs

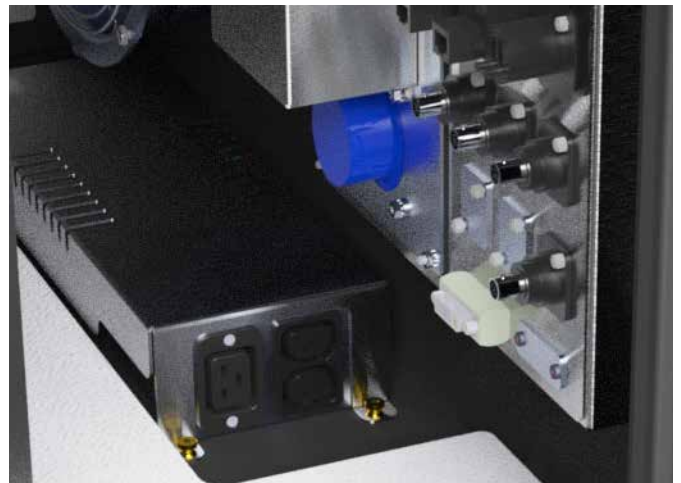*Power Inlet Connector*

Up to 9 Neutrik feedthroughs

User Interface

Exhaust Fan Louver

Internal Connections

Every Typhoon enclosure contains a C19 outlet for the projector, plus a pair of C13 outlets for any auxiliary equipment you may need to run inside the enclosure (and there's planty of room under the projector for most commonly-used aux items).

And since no-one ever has IEC connectors when they need them, we include rewireable plugs for each outlet.

TEMPEST

Typhoon
Rental & Staging Projector Enclosures

Rigging Options

All Typhoons come with six M12 threaded sockets — one at each corner, and two midway between — top and bottom, and on both sides.

Stainles steel bolts are provided for attachment to any suitable support structure and/or any of the Typhoon rigging accessories shown here.

We are used to the weird and the wonderful, and are always happy to work on custom rigging options for you!

Typhoon Truss Kit (54.TR.xxx)

Hang any Typhoon safely on any truss with pipe OD 2in [50].

The supplied half coupler clamps run in slots to adapt to any truss up to 24"[600].

Stacking Kit (51.SK)

Stack two or more Typhoon enclosures of the same type using this stacking kit.

Male and female parts attach to the threaded corner holes, and are simply joined together on site using stainless steel clevis pins.

Drop Arms Kit (54.DA)

Vary the angle of individual enclosures in a stack with these handy drop arms — requires a stacking kit.

Stack, fly, landscape, portrait — there are so many ways to rig Typhoon enclosures, and we can help you with custom solutions too!
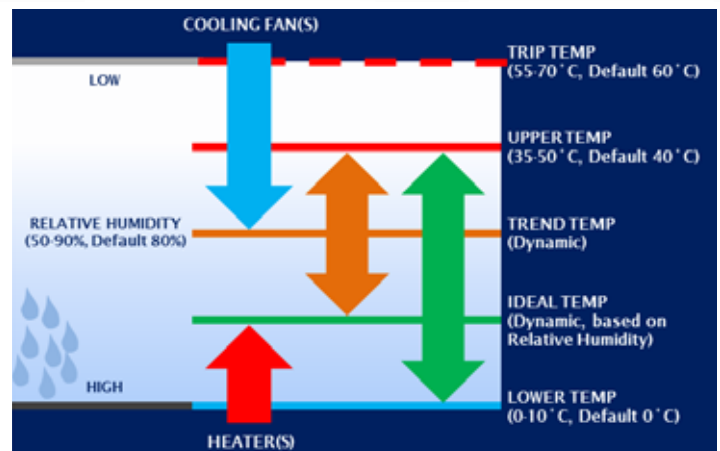
Goldilocks™

How do we keep projectors from roasting when it's 50°C and there's no shade?

And prevent condensation from destroying your projector 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 projector when the lamp is on or when the enclosure is heated by the sun. We're changing the air about every second.

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.

TEMPEST

Stacking Kit (51.SK)

Stack two or more Typhoon enclosures of the same type using this stacking kit.

Male and female parts attach to the threaded corner holes, and are simply joined together on site using stainless steel clevis pins.

Unistrut Kit (54.UR.xxx)

Add these stainless steel Unistrut rails to any pair of rigging points for easy rigging in any orientation, using industry-standard hardware.

Cyclovator Tilt Kit (55.C2)

Mount your Typhoon enclosure on a Cyclovator for quick and easy tilt adjustment up to 60° up or down - so handy when you don't know the tilt angle until you get to the job site...

(Cyclovator requires the enclosure to have a Unistrut kit (54. UR.xxx)

TEMPEST

Tempest System Manager

Tempest System Manager is a Windows app running on a local PC connected to your enclosures over a local area network.
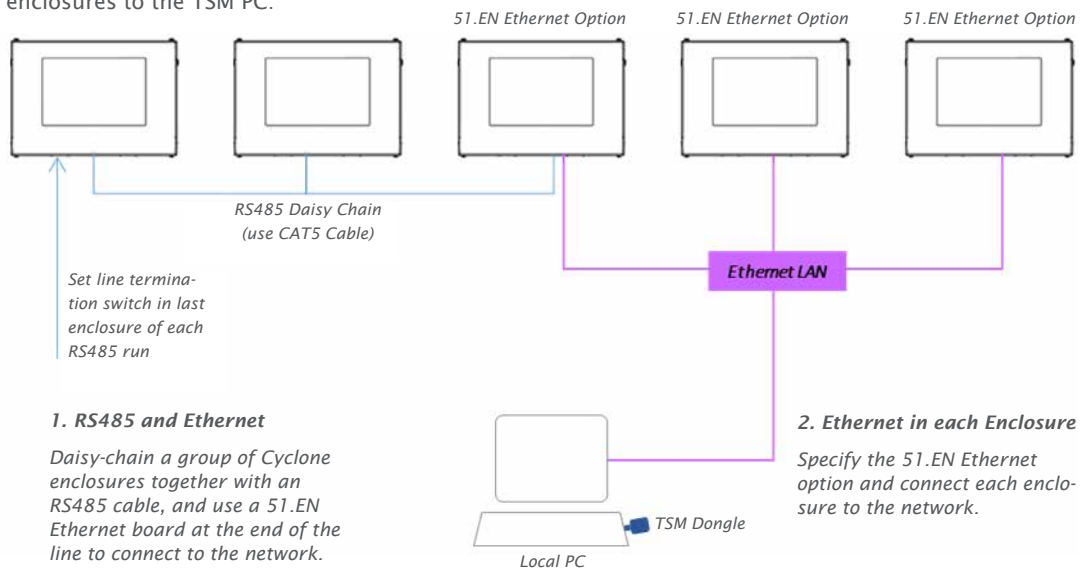
TSM discovers any Tempest enclosures present on the network at initialization, and monitors system attributes in real time, including lamp, fan and heater status, temperature, relative humidity and more.

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.

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*

RS485 Daisy Chain (use CAT5 Cable)

Set line termination switch in last enclosure of each RS485 run

Ethernet LAN

1. RS485 and Ethernet

Daisy-chain a group of Cyclone enclosures together with an RS485 cable, and use a 51.EN Ethernet board at the end of the line to connect to the network.

2. Ethernet in each Enclosure

Specify the 51.EN Ethernet option and connect each enclosure to the network.

TSM Dongle

Local PC

TEMP Protocol

Tempest also publishes a simple protocol for use by integrators wishing to monitor enclosures over an existing control network.

Connection options are the same as for System Manager.

Download the TEMP Developer Guide here:

TEMPEST

Base Enclosures

Typhoon 54.100

Part #, 200-250V	54.100	
Dims (lwh)*	864x762x381	
	34x30x15in	
Weight	39kg/85lb	
Shipping*		
Dims (lwh)	91x91x61cm	
	36x36x24in	
Weight	55kg/120lb	

Typhoon 54.210
Barco UDM
Panasonc PT-DZ21K
Panasonic PT-RZ21K
...and similar

Part #, 200-250V	54.200	
Dims (lwh)*	1270x762x457	
	50x30x18in	
Weight	50kg/109lb	
Shipping*		
Dims (lwh)	142x104x71cm	
	56x41x28in	
Weight	80kg/177lb	

Typhoon 54.310
Barco UDX
Christie Boxer
Christie Crimson
...and similar

Part #, 200-250V	54.310	
Dims (lwh)*	1473x813x533	
	58x32x21in	
Weight	53kg/116lb	
Shipping*		
Dims (lwh)	163x91x79cm	
	64x36x31in	
Weight	83kg/182lb	

Typhoon 54.320
Panasonic PT-RZ31K
...and similar

Part #, 200-250V	54.320	
Dims (lwh)*	1575x864x610	
	62x34x24in	
Weight	63kg/137lb	
Shipping*		
Dims (lwh)	152x97x91cm	
	60x38x36in	
Weight	93kg/207lb	

Options

54.TI	Any Typhoon	Thermal Insulation Lining
54.GH.xxx	Typhoon xxx	Pair of Grab Handles
51.SK	Any Typhoon	Stacking Kit
54.DA	Any Typhoon	Pair of Drop Arms (requires 51.SK)
54.TR.xxx	Typhoon xxx	Typhoon Truss Kit
54.UR.xxx	Typhoon xxx	Pair of Unistrut Rails
51.EN	Any Typhoon	Ethernet Comms Board
51.TSM.xx	Any Typhoon	Tempest System Manager
54.CF	Typhoon 150 and up	Replacement Rubber Connector Flap
54.CF.100	Typhoon 100	Replacement Rubber Connector Flap
51.HF.15	Typhoon 150 and up	Replacement Inlet Filter (15in)
51.HF.11	Typhoon 100	Replacement Inlet Filter (11in)
Power Inlet Options		
L6-20	US/NEMA	20A 208V (2 hots)
L21-20	US/NEMA	20A 208V (2 hots + N)
L6-30	US/NEMA	30A 208V (2 hots)
L21-30	US/NEMA	30A 208V (2 hots + N)
IEC320-C20	International	20A 230V
IEC309-16	International	16A 230V
IEC309-32	International	32A 230V
Custom	Any	Consult Factory
Signal Feedthroughs (9 Neutrik slots, plus 1 or 2 DVI)		
NE8FD	Neutrik	EtherCon
NO2-4FDW	Neutrik	OpticalCon Duo
NAHDMIWB	Neutrik	HDMI
XLR5M	Neutrik	XLR5 Male (RS485/DMX)
XLR5F	Neutrik	XLR5 Female (RS485/DMX)
NBB75DFIB	Neutrik	75Ω BNC Feedthrough
54.DPF		DisplayPort Feedthrough
EH35MM2PKG	Switchcraft	3.5mm Jack Feedthrough
Blank		
DVI-DL	Amp	DVI Dual Feedthrough
Custom		Consult Factory

For projectors not shown here, and for Typhoon enclosures for multiple projector types, please consult factory

* All Typhoon Enclosures are custom or semi-custom. Please consult factory for details. Dimensions shown here are approximate, pending submittal drawings for each sale.

All Schedule B Export Code: 9405.99.0000

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

CAD drawings and user manuals at www.tempest.biz

Name	
Company	
Email	
Phone	

Projector & Lens Model #	Projector:	Lens:

Typhoon Model	54. _____
Quantity	
Thermal Insulation	Yes, Qty _____ No _____
Grab Handles	Yes, Qty _____ No _____

Truss Kit	Yes, Qty _____ No _____
Stacking Kit	Yes, Qty _____ No _____
Drop Arm Kit	Yes, Qty _____ No _____
Unistrut Kit	Yes, Qty _____ No _____
Cyclovator	Yes, Qty _____ No _____
Ethernet Bridge	Yes, Qty _____ No _____
Spare Inlet Filter	Yes, Qty _____ No _____
Spare Cable Flap	Yes, Qty _____ No _____
Color	Standard, Black ☐
	Custom, RAL # _____ Gloss Level _____%

Connectors

Power Inlet Connector (choose 1)

North America/Japan:

L6-20 ☐   L21-20 ☐   L6-30 ☐
L21-30 ☐

Note: 120V IEC C14 inlet included for aux power

International:

IEC-C20 ☐   IEC309-16 ☐
IEC309-32 ☐

Other (specify)

NOTE: Typhoon 100 uses Neutrik PowerCon True inlet

Signal Feedthroughs *(max 9 Neutrik slots plus 1 or 2 DVI)*

SLOT	TYPE	LABEL TEXT*	Type Codes	
1			A	EtherCon
2			B	OpticalCon Duo
3			C	BNC 75Ω
4			D	HDMI
5			E	DisplayPort
6			F	XLR5M
7			G	XLR5F
8			H	3.5mm Jack
9			J	DVI
DVI1			K	DisplayPort
DVI2			X	Blank

* Label Text - keep it short! 8 characters max.

Custom Requests

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