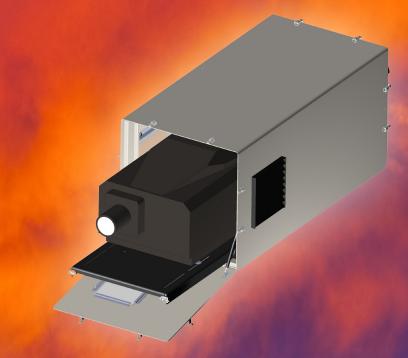


Any Projector. Anywhere.



CYCLONE Projector **Enclosures**

Outdoor



Video Mapping Advertising Theme Parks **Historic Sites**

HUSH



Digital Cinema Training Rooms Live Theatre Meeting Rooms

Outdoors or in, the new generation Cyclone enclosures from Tempest will protect your investment and ensure long equipment life. Proven outdoors in every climate type, and now running silently in meeting rooms and theatres around the world, the new Cyclones are the best protection there is for your 14-40,000 lumen projector.

And Cyclone HUSH enclosures make boothless cinema a reality. Silent operation, no lost space.

Tempest - undisputed leader in specialist enclosures for high powered lighting and digital projectors - now offers a spectacular set of enhancements to the world's toughest enclosure family for large format projectors.

What's New?

- · Over 20 models, each specifically tailored to a projector type
- · Outdoor versions for every climate
- · Indoor HUSH versions, eliminating projector noise
- New filter technology beats dust, sand, salt, smoke and oil
- · Tempest Goldilocks™ Digital Enclosure Control Operating System (patents pending) - beats condensation, saves energy
- · No-return Exhaust Flaps (Outdoor models)
- · Portrait Options on all models

What's Not?

- High-velocity forced air cooling when projector lamp is on - effective in all temperatures, no condensation risk
- Temperature, humidity and condensation control
- Remote configuration and monitoring
- · Front or rear projector slide for relamping and service
- Highest quality materials no ferrous metals, no corro-
- · Epoxy powder coated aluminum housing
- Stainless steel hardware
- · Tempered optical glass projection window

Cyclone Projector Enclosures. Any projector. Anywhere.





Tempest enclosures are installed in some very hot - think Las Vegas. Dubai, Singapore...

Cyclone 8400 with Christie HD35K Roadie

Outdoor



Video Mapping Advertising **Theme Parks Historic Sites**



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 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.

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.

Tempest Cyclone every day in every

Rugged and Dependable

Cyclone is extremely robust, constructed from heavy guage aluminum and stainless steel, and epoxy powder-coated for long, maintenance-free life.

Projector Mounting

Each Cyclone model is tailored specifically for the projector to be housed. The projector mounts on an aluminum tray that may be specified to slide out of the front or the back for service and relamping.

Stacking

Cyclone enclosures may be stacked, with an air gap of 4"/10cm between each enclosure, with the Cyclone Stacking Kit accessory.

Part # 8000.SK

New Filter Technology

All new Cyclones come with high performance hydrophobic air filters that block dust, sand, oil. moisture and contaminates like salt and chlorine, keeping the interior clean and pristine in any environment.

Outdoor projector enclosures are running climate type, all around the world.

No-return Exhaust

Exhaust doors on Outdoor Cyclone models open when the enclosure fans are running and close automatically when not in use, further protecting the interior from windblown particulates.

Extreme Temperatures?

Specify a Cyclone Thermal Insulation kit to moderate temperatures in hot (>40°C) and cold (<0°C) locations. thermal insulation saves energy and prolongs equipment life.

Part # 8000.TI



environment in your enclosures

... and some very cold ones -Russia, Canada, Finland.

over a simple RS485 link with our RDM interface and PC application.

Part # 2000.190

Cyclovator Tilt Kit

It's important that the enclosure should be level when the projector slides out for service. In video-mapping jobs where the projection angle is up or down, Cyclovator raises the enclosure to a predetermined show position, then back to horizontal for safe service and relamping.

Cvclovator comes in three sizes:

Part #s 8000.TK (8000 Series) 8200.TK (8200 Series) 8400.TK (8400 Series)

Cvclone 8200 with 8200.TK Cvclovator



Cyclone 8100 HUSH with Panasonlic PT-DS20K

HUSH



Digital Cinema Meeting Rooms Home Theatre Churches Live Theatre

Now you don't need a projection booth!

Boothless Cinema

Now you can safely — and silently — operate business and cinema projectors up to 40,000 lumens without noise, and without sacrificing seats or real estate.

Retrofits: adding projection to a training room, a lecture hall or a live theatre where there's no booth? No problem.

New construction: don't want to sacrifice building space or revenue-earning seats? No problem.

Now you can use today's most powerful projectors safely and silently, with Cyclone HUSH projector enclosures.

> Cyclone 8200 HUSH for Christie Roadster

Cyclone HUSH enclosures silence any projector in indoor acoustically sensitive areas.

The Sound of Silence

...is about 2dB! Cyclone HUSH virtually eliminates projector noise in acoustically sensitive spaces.

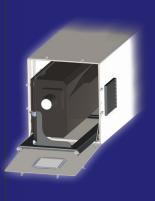
Cyclone HUSH enclosures are lined with acoustic insulation material and feature airtight seals to keep projector noise safely inside.

Cyclone HUSH enclosures require an exhaust duct (by others) to an acoustically isolated space - an insulated ceiling void, the next room, an outside wall. Tempest provides a fan plate to install at the far end of the duct, powered by the Cyclone DEC controller.

Cyclone senses when the projector lamp is on and when the internal temperature reaches a preset level, and runs the fans to pull cool air through the system from the auditorium.



All Cyclone Outdoor and HUSH enclosures are available to special order in portrait format.



Note that portrait operation may not be supported by the projector manufacturer for all projector models.

Exhaust Duct (by others) size for 500cfm/0.25m³/s (Cyclone models <8200), 1,000cfm/0.50m³/s (Cyclone models 8200 and up).

Cyclone attaches to building structure via Unistrut rails on enclosure base.

Remote Fan Plate (included). Fan cable runs back to Cyclone controller through exhaust duct Air inlet Filter/Louver.

Construction	n Aluminum, plated and epoxy powder coated for excellent corrosion resistance, stainless steel.	Cooling	High-power AC fans changes air every 1-2 seconds when projector lamp is on	
Mounting	Enclosure may be ordered for installation base down or base up.	Heating	Heating elements maintain minimum operating temperature and prevent condensation (Outdoor)	
	2 x stainless steel Unistruts on base.	Cooldown	Fans run for up to 15 minutes after lamp turns off	
	Optional Accessories (minimum 4 per enclosure)	Protection	Projector power is safely isolated by a 2-pole	
	4900.MB Stainless Steel Bolt kit: 1/2" bolt, washer, Spring nut (shaded)	Power	power relay in the event of overheating. 208VAC or 230VAC, 50/60Hz, 5 amps max (enclo- sure). Single or split feed wiring for enclosure and projector	
	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.	Projector Power Outle	t IEC C19 (8000 series), L6-30 (8200 and up). Re- wireable plugs included as appropriate.	
	8000.SK Stacking Kit for any Cyclone Outdoor enclosure	A	IEC C14 Receptacle with rewireable plug for ancillary equipment	
Security	Heavy duty stainless steel latches, may be pad- locked for security.	Aux Power		
Access	Projector slides out front or back on 500lb/227kg	Approvals	Americas: ETL and cETL listed to UL 50, 508	
	rated slides		International: Low Voltage Directive 2006/95/	
Color	Standard light bronze (Outdoor), White (HUSH). Custom colors to order.	EC, Electromagnetic Compatibility Directive 2004/108/EC, EN 60065:2002, EN 60529:20		
Window	Tempered Optical Glass .125"/3mm		2002, EN 61000-6-3:2007+A1:2011, EN61000-6-	
Control	Tempest Lighting DEC3.3 controller with Tempest Goldilocks™ operating system.		1:2007, EN55015:2006+A2:2009	
			NEMA Type 3R Enclosure (≈IP54)	
		Patents	Protected by US Patent # 6,352,358. Other patents	
Projector plugs into outlet (20 or 30 amp) protected by double pole 30amp relay. Relay isolates projector in			pending.	

Filters are easily removed and

replaced as needed

emergency conditions.

Aux Power via IEC C14 receptacle for ancillary equipment.

Tempest DEC 3.3 enclosure controller with Goldilocks operating system protects projector from heat, cold and condensation.

Powerful AC fans change enclosure air every 1-2 seconds. Exhaust doors open when air flows and close for added protection when projector is off (horizontal operation)

á 🗆

BARCO HDX Inlet Louvers and hydrophobic dust and moisture filters block

Cvclone 8000 with

dust and moisture-born contaminants such as salt, smoke and chlorine

DEC Control Interface for setup and monitoring of temperature, humidity and status indicators.

Removable Stainless Steel Door Hinges Stainless Steel Unistruts for mounting to building/structure

Power cable entry hole for 1/2" flexible Conduit Signal cable entry holes for

-1

1¹/₂" and ¹/₂" flexible Conduit



M

Doors supported by heavy-

easy opening and closing

duty gas springs/dampers for

Stainless steel draw latches

ensure tight seal. Padlocks

may be added for security.

Stainless steel slide bolts lock projector in show position.

Projector tray slides out front or back (see ordering guide) on 500lb/227kg rated slides for service access

User Manual & Drawings

Download installation/ operating instructions and CAD drawings from www.tempest.org

Ordering Guide:

example: 8200.U.S.HBLV

Ordering Guide:		example: 8200.U.S.HBLV			
	Electrical US 208V, NEM North Ame IN 230V, CE St Internation	<i>rica</i> H HUSH tandard		nat * Mounting andscape D Base Down Portrait V Base Up	
Need Something Smaller?	Model Description	Dimensions (lwh)	Weight	Typical Projector Type *	
Our Blizzard Series	8000 Cyclone 8000 8100 Cyclone 8100	48x28x22" 122x71x 48x34x18" 122x86x	, , , , , , , , , , , , , , , , , , , , , ,	BARCO HDX 14-18K Panasonic PT-DS20K, PT-DZ21K	
has Outdoor and HUSH models for	8102 Cyclone 8102	48x34x31" 122x86x		TWO Panasonic PT-DS20K	
projectors 3,000 to 15,000 ANSI lumens	8110 Cyclone 8110	48x34x18" 122x86x	, 5	DP Titan Quad	
	8120 Cyclone 8120 8200 Cyclone 8200	48x34x24" 122x86x 58x34x26" 147x86x	, s s s s s s s s s s s s s s s s s s s	Pan. PT-EX16K, Christie Solaria 1+ Christie Roadster 18-20K	
	8210 Cyclone 8210	58x36x30" 147x91x	76cm 230lb/105kg	BARCO FLM, HDF 22-26K	
	8250 Cyclone 82508400 Cyclone 8400	58x34x23" 147x86x 74x38x33" 188x97x	, , , , , , , , , , , , , , , , , , ,	Christie Boxer 30K Christie Roadie 45K	
	8420 Cyclone 8420	65x38x36" 165x96x	· · · , · · 5	DPI Lightning	
	8450 Cyclone 8450	74x34x39" 188x86x	99cm 350lb/159kg	Christie D4K35, CP2220/30	

For projectors not shown here, please contact factory

31x24x26"

65x38x36"

74x34x39"

Ballast Enclosure**

Cyclone 8500

Cyclone 8600

** 840B Ballast Enclosure for Christie 305K projectors includes 6'/2m DC pigtails, so DC cables are not required

79x61x66cm

165x96x91cm

188x86x99cm

65lb/30kg

330lb/150kg

350lb/159kg

Christie 35K Ballast

BARCO HDQ 40K

Sony SRX-R320

Options and Accessories

840B

8500

8600

2000.190	JESE RDM-TRI PC Interface and GetSet Software	
4900.MB	Stainless Steel Bolt Kit (4 per enclosure model <8400. 6 for models 8400 and up)	
4900.MC	Stainless Steel Pipe Clamp 2"/50mm (4 per enclosure model <8400. 6 for models 8400 and up)	
4925.MC	Stainless Steel Pipe Clamp 2.5"/63mm (4 per enclosure model <8400. 6 for models 8400 and up)	
8000.ECK	Dual Exterior Cowl Kit for Cyclone HUSH 8000 Series	
8200.ECK	Quad Exterior Cowl Kit for Cyclone HUSH 8200 and up	
8000.TI	Thermal Insulation Kit for all Outdoor Cyclone models	
8000.SK	Cyclone Stacking Kit for all Outdoor Cyclone models	
8000.TK	Cyclovator Tilt Kit for 8000/8100 series (overall length 48"/122cm)	
8200.TK	Cyclovator Tilt Kit for 8200 series (overall length 58"/147cm)	
8400.TK	Cyclovator Tilt Kit for 8400 series (overall length 74"/188cm)	
Replacement Filters		
6500.799.HF	Spare 11"/28cm Hydrophobic Filter (Cyclone 8000, 8100 series). 2 per enclosure.	
8000.799.HF	Spare 15.5"/39cm Hydrophobic Filter (Cyclone 8102, 8200 and up). 2 per enclosure.	



Duality – Atlantic City, NJ Design and content by the Moment Factory, Montreal. 12 Christie Roadster projectors in Cyclone 8200 enclosures survived Hurricane Sandy shortly after installation! Reproduced courtesy of the Moment Factory.

Shipping Weights and Dimensions



Cyclone enclosures and Cyclovator Tilt Kits are shipped in high quality wood crates treated and certified to international export standards.

Cyclone Enclosures

8000	54x37x32", weight 330lb	137x94x66cm, 150kg
8100	54x42x26", weight 330lb	137x107x66cm,150kg
8102	54x40x37", weight 400lb	137x102x99cm,182kg
8120	54x42x28", weight 350lb	137x107x71cm,159kg
8200	64x41x36", weight 390lb	163x104x92cm, 177kg
8210	62x43x35", weight 420lb	157x109x89cm, 205kg
8250	64x41x36", weight 390lb	163x104x92cm, 177kg
8400	85x46x41", weight 450lb	216x117x104cm, 205kg
8450	85x46x46", weight 450lb	216x117x117cm, 205kg
840B*	39x39x28", weight 120lb	100x100x71cm, 191kg
8500	72x44x42", weight 450lb	183x112x107cm, 205kg
8600	85x46x46", weight 450lb	216x117x117cm, 205kg

* 840B is packed in a palletized carton

Cyclovator Tilt Kits

8000.TK	62x28x29", weight 200lbs	158x71x74cm, 91kg
8200.TK	72x28x29", weight 230lbs	183x71x74cm, 105kg
8400.TK	84x28x29", weight 310lbs	213x71x74cm, 141kg

All Schedule B Export Code: 8536.30.0000

Made in the USA ©Tempest Lighting, Inc., November, 2015 In the interest of continuous product improvement, specifications are subject to change without notice

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