TEMPEST

Oasis

Outdoor Projection
Active Cooling
Systems

Oasis
Outdoor Projection Active Cooling Systems

Now you can safely operate sensitive laser projectors in any environment with temperatures from –15 to 50°C (5-122°F), while maintaining a CONSTANT temperature where you need it — at the projector air inlet.

Get the maximum life out of your laser light engine, and say good-bye to RGB color shift with changing ambient temperatures.

Oasis uses highly efficient inverter heat pump technology to maintain its set temperature regardless of outside conditions, either when the system detects the projector is active, or when the internal temperature reaches a user-set temperature with the projector in standby mode.

In low ambient temperatures, Oasis maintains a minimum temperature, using a thermostatically controlled heater inside the enclosure.

Oasis models are tailored specifically for each projector type, from 5,000 to 50,000 lumens.

· User interface for setup and monitoring
· Available TCP/IP, RDM, or web-based monitoring

Oasis comes as standard with 5m (16') line set connecting the suitcase-style compressor unit with the enclosure. A simple and inexpensive installation process is easily handled by any local HVAC installer.

Each Oasis model has been tested and approved with its designated projector before being released for production.
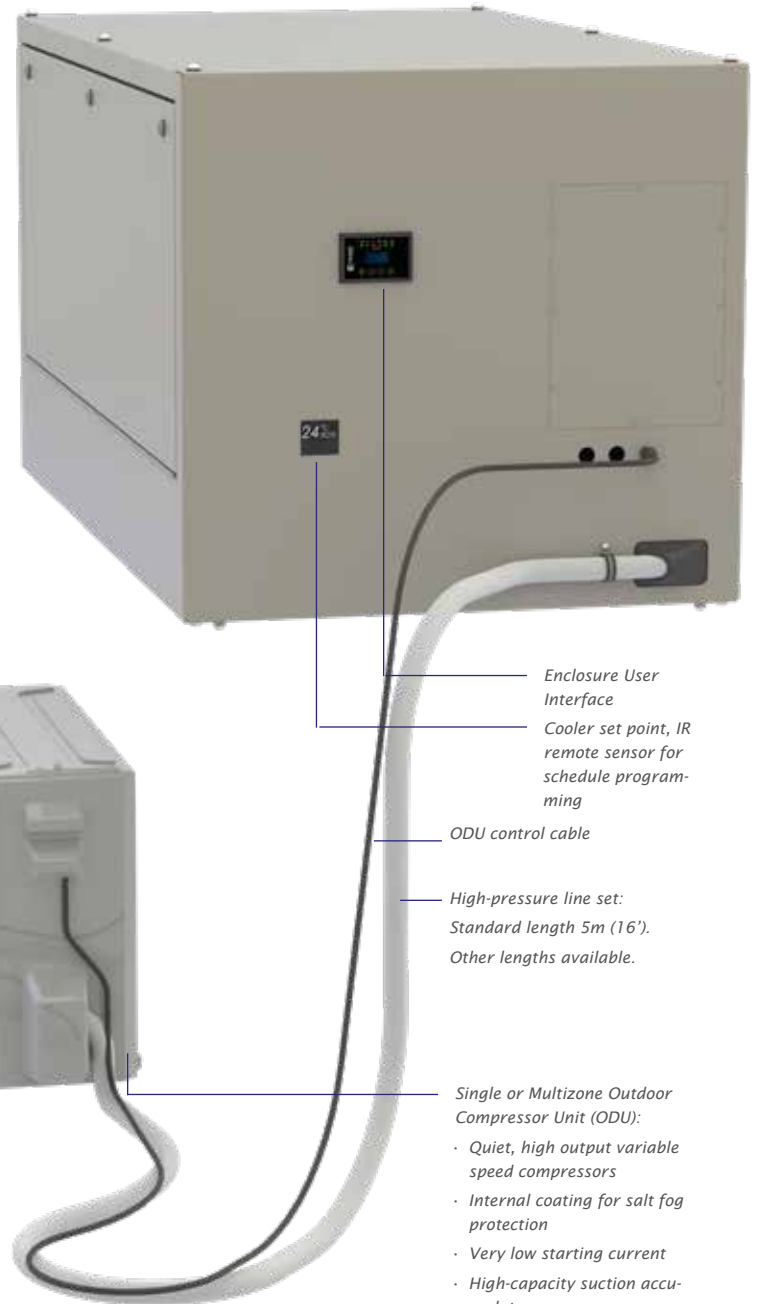
Oasis comes with all the features you expect from Tempest:

· IP66 Protection Class

· Landscape, portrait, and many UST lens options

· Many rigging options

· Tough Aluminum welded contruction

· Large access doors both sides for projector access

Enclosure User Interface

Cooler set point, IR remote sensor for schedule programming

ODU control cable

High-pressure line set: Standard length 5m (16'). Other lengths available.

Single or Multizone Outdoor Compressor Unit (ODU):

· Quiet, high output variable speed compressors
· Internal coating for salt fog protection
· Very low starting current
· High-capacity suction accumulators
· Optional heavy-duty vibration mounts
· Durable outdoor fan with high glass content
· Efficient, permanently lubricated EC/DC outdoor motor
· Internal overload protection
· Flare type refrigerant connections
· R410A Refrigerant
· ETL Outdoor Rating

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Single Systems, Multizone Systems

A single projector? No problem. Your Oasis enclosure comes with its own dedicated compressor (ODU), and interconnecting line set — everything you need.

But it often happens on big mapping jobs that projectors will be grouped around the site, in clusters of two or more. That's where Oasis Multizone systems come in. Now you need only a single multizone ODU to serve up to five Oasis enclosures.

Multi-zone systems still give you individual temperature and scheduling control for each enclosure, and the projector and enclosure types don't have to be the same, so Oasis Multi is both practical and extremely flexible.

The maximum line set length from ODU to enclosure is 15m (50ft), so the enclosures in each multi-zone cluster don't even have to be so close together!
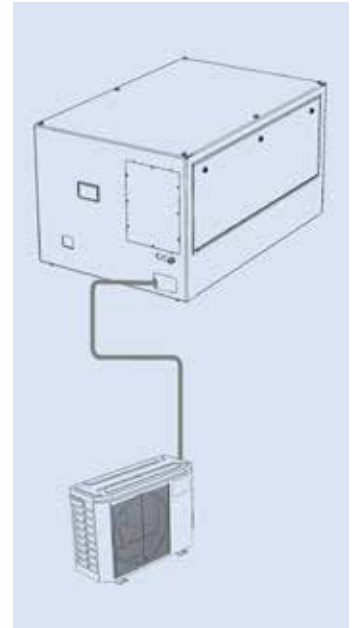
Oasis 59.310 Enclosure, complete with ODU and line set.
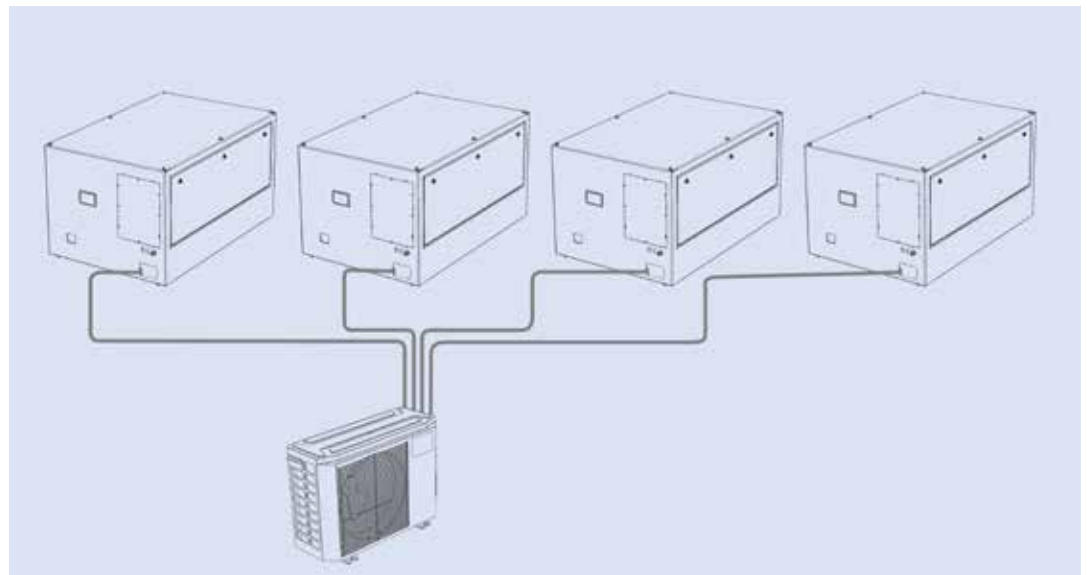
Four Oasis 59.310 Enclosures, complete with Multi-zone ODU and line sets.

The number and heat load of the projectors in each Multizone Oasis system will affect the selection of components for each system.

Please contact Tempest to discuss the optimal configuration for your Oasis Multizone systems.

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Oasis
Outdoor Projection Active Cooling Systems

Oasis 210 and up: projector exhaust is ducted to return warm air to the fan coil, for high thermal efficiency

Oasis projector mounts are indexed for accurate repositioning after projector service

Portrait Oasis enclosures allow ± 5º tilt adjustment to compensate for limited H-shift

Large, insulated access doors both sides for excellent projector access

Thermal Insulation lining for optimum efficiency

*Oasis 59.525P Portrait Enclosure, with Panasonic PT-RZ50K*

Oasis 59.1xx models come with universal projector mounts: if the projector fits, it works.

Simple Installation

All wiring connections are easily accessible via the enclosure back panel.

The high-pressure line set connections must be made by a licensed HVAC installer. This is a simple process, identical to setting up a mini-split AC unit.
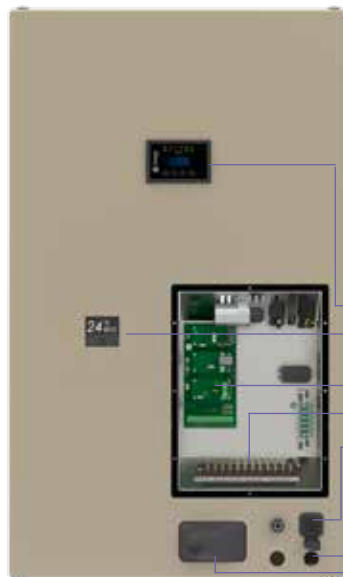
DEC User Interface

Cooler set point display and IR sensor

DEC enclosure controller

Wiring compartment

Neutrik PowerCon True 1 TOP cooler power connector

Power & signal conduit entries

Line set Gasket

Automatic Operation

Just set the desired temperature set point and upper and lower temperature limits, and we'll take care of the rest.

Tempest's patented Digital Enclosure Control (DEC) technology makes sure that the cooler runs when either the projector is on, or the daytime temperature exceeds your preset target.

The cooler automatically maintains the set point at all times, within a very tight margin, due to Oasis' variable speed invertor technology. And you can even set different set points for different times of day!

Cold? Don't worry — Oasis' heater maintains a minimum preset temperature in cold climates, so the projector will never have trouble firing up at show time.

Important: *If ambient temperatures below -15ºC (-5ºF) are expected, consult Tempest.*

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Oasis
Outdoor Projection Active Cooling Systems

All Oasis enclosures come with six M12 threaded sockets on the top surface, and four on the bottom. So you can bolt the enclosure directly to your structure, or use them to attach these Tempest rigging accessories.

Stainless steel bolts are provided for attachment to any suitable support structure.

Tempest recommends only the use of stainless steel hardware for installing enclosures outdoors.

Unistrut Kit

Easy attachment to any structure using these two Unistrut rails. Use standard Unistrut hardware to attach to your structure, without worrying about precise hole locations.

Unistruts may be mounted top (shown here) or bottom; please specify with order.

Note: A Unistrut Kit is required for use with Cyclovator.

Cycolvator

Our fabled Cyclovator tucks snugly under the center of gravity of the enclosure.

Use Cyclovator on the ground to cover tall buildings, or on a rooftop to project to ground level. Either way, Cyclovator allows you to project up to about 60° off horizontal, and then bring the projector safely back to horizontal for service access.

You can even bolt this Cyclovator to a truss or other structure and use it to hang any Oasis enclosure at any angle.

NOTE: Cyclovator requires 59.UR.xxx Unistrut Rail Kit

And Cyclovator has a positive index ring that you set to come back to your show position with absolute repeatability, time after time...
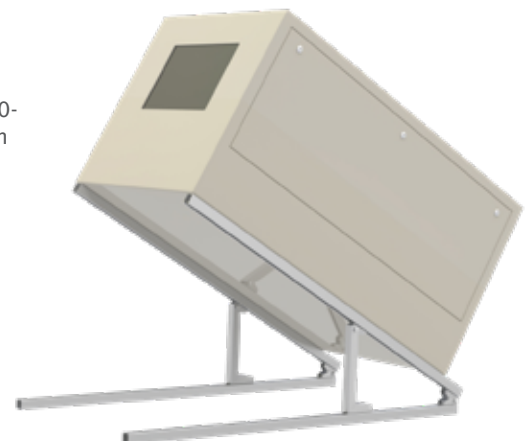
Angle Mount

A simple fixed angle mounting kit, with a range 10-45° up (shown here) or down — simply mount with the enclosure facing the other way.

55.AM2 Oasis 210-305

55.AM3 Oasis 310, 314, 322

55.AM4 Oasis 320, 514, 525

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Oasis
Outdoor Projection Active Cooling Systems

Rigging Options

Sun Shade

This aluminum panel mounts easily on the top of any Oasis enclosure to provide extra daytime protection in hot, sunny climates. The cover not only deflects sunlight, but also provides a 75mm (3in) air gap between the shade and the enclosure top, promoting convective air movement. Use in sunny areas with daytime temperatures frequently above 35°C (95°F).

Stacking Kit

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

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

Maximum two enclosures stacked if hung, up to three with ground support.

Swivel Stacking Kit

Stack two Oasis enclosures (must be the same model), and angle them horizontally up to 40 degrees apart — handy for short-throw edge blending jobs.

Stainless steel stacking kits attach to M12 rigging points, and locking bolts are provided to secure rotation angle when aligned.

Custom Rigging Options

Don't see what you need? We do a lot of custom designs and we'll be happy to work with you to find the best solution for your project.

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Oasis
Outdoor Projection Active Cooling Systems

Tempest System Manager

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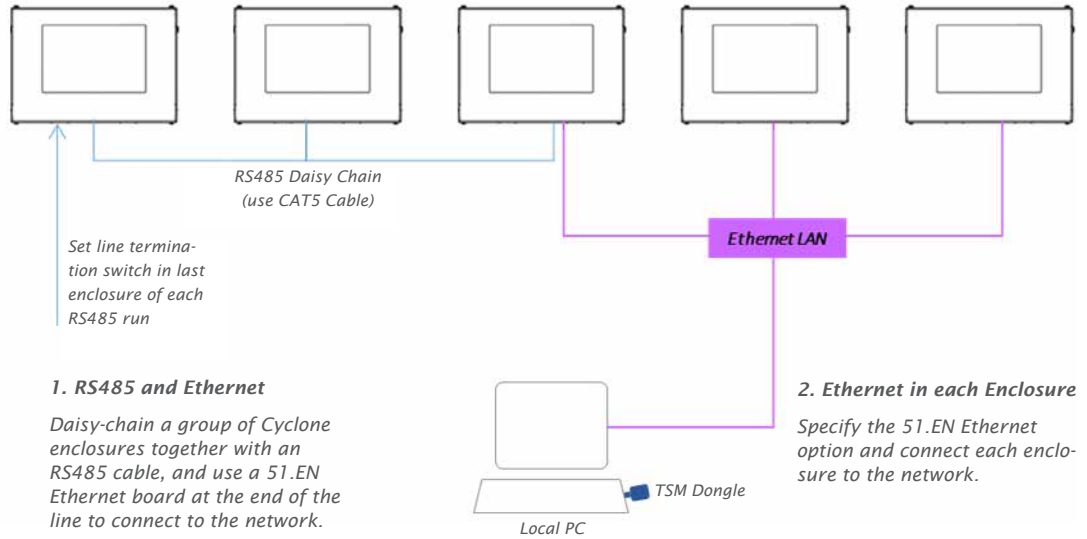
TSM discovers any Tempest enclosures present on the network at initialization, and monitors system attributes in real time, including lamp, fan and heater status, temperature, relative humidity and more.

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.

TSM Model Numbers

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

Monitoring Connections

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

51.EN Ethernet Option   *51.EN Ethernet Option*   *51.EN Ethernet Option*

RS485 Daisy Chain (use CAT5 Cable)

Ethernet LAN

Set line termination switch in last enclosure of each RS485 run

TSM Dongle

Local PC

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.

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](#):

Model	Description
59.100.L	Oasis 100 Landscape Enclosure
59.100.P	Oasis 100 Portrait Enclosure
59.125.L	Oasis 125 Landscape Enclosure
59.125.P	Oasis 125 Portrait Enclosure
59.150.L	Oasis 150 Landscape Enclosure
59.150.P	Oasis 150 Portrait Enclosure
59.200.L	Oasis 200 Landscape Enclosure
59.200.P	Oasis 200 Portrait Enclosure
59.202.L	Oasis 202 Landscape Enclosure
59.202.P	Oasis 202 Portrait Enclosure
59.204.L	Oasis 204 Landscape Enclosure
59.204.P	Oasis 204 Portrait Enclosure
59.210.L	Oasis 210 Landscape Enclosure
59.210.P	Oasis 210 Portrait Enclosure
59.250.L	Oasis 250 Landscape Enclosure
59.250.P	Oasis 250 Portrait Enclosure
59.305.L	Oasis 305 Landscape Enclosure
59.305.P	Oasis 305 Portrait Enclosure
59.310.L	Oasis 310 Landscape Enclosure
59.310.P	Oasis 310 Portrait Enclosure
59.314.L	Oasis 314 Landscape Enclosure
59.314.P	Oasis 314 Portrait Enclosure
59.320.L	Oasis 320 Landscape Enclosure
59.320.P	Oasis 320 Portrait Enclosure
59.322.L	Oasis 322 Landscape Enclosure
59.322.P	Oasis 322 Portrait Enclosure
59.514.L	Oasis 514 Landscape Enclosure
59.514.P	Oasis 514 Portrait Enclosure
59.525.L	Oasis 525 Landscape Enclosure
59.525.P	Oasis 525 Portrait Enclosure

User Manuals, 2D and 3D CAD drawings here.

For Oasis Multizone systems, please consult Tempest.

Custom Colors

Most enclosures in this brochure are shown in our popular standard light bronze finish.

White, Black or any RAL color are available to special order. See the color section in the Cyclone Configurator on the next page.

Projector Guide[1]

Model	Projector
100	Most projector/lens combinations up to (lwh): 27x24.5x10in/686x622x254mm
125	Most projector/lens combinations up to (lwh): 27x28.5x10in/686x622x254mm
150	Most projector/lens combinations up to (lwh): 35x24.5x12in/890x724x305mm
200	Epson EB-PU2100/2200 series
202	Panasonic PT-RQ25 Series
204	Christie M4K25, DPI M-Vision 21K
210	Panasonic PT-RZ12K, PT-RQ22K, PT-RZ21K, Barco UDM, G100
250	Epson Pro L25000U, L30000U
305	Panasonic PT-RQ35K, PT-RZ34K, Epson L20000
310	Christie Crimson, Barco UDX, DPI Insight 4K
314	Christie Griffyn 32k
320	Panasonic PT-RZ31K,RQ32K
322	DPI Titan Laser 37k
514	Christie Griffyn 50k
525	Panasonic PT-RQ50k

[1] *For projectors not shown here, please contact Tempest — we will be happy to accommodate any projector type*

[U] *All UST versions are custom or semi-custom. Please consult Tempest for details*

All Oasis products are built to order. Please consult Tempest for lead times.

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

All Schedule B Export Code: 9405.99.0000

Available Options

59.VM	*Vibration mount kit for any Oasis Outdoor Unit*
59.UR.xxx	Unistrut Rail Kit *(Use the 3-digit enclosure model #, eg 59.UR.525)*
51.SK	Stacking Kit
51.SS.xxx.x	Swivel Stacking Kit (xxx.x = Oasis model #)
55.C2	Cyclovator 2 *(requires 55.UR.xxx)*
52.AM.100	*Angle Mount Kit, Oasis 100, 125*
52.AM.150	*Angle Mount Kit, Oasis 150*
55.AM2	*Angle Mount Kit, Oasis 200-305*
55.AM3	*Angle Mount Kit, Oasis 310, 314, 324*
55.AM4	*Angle Mount Kit, Oasis 320, 525*
59.SH.xxx.x	Sun Shade (xxx.x = Oasis model #)
51.EN	Ethernet Adapter (for system monitoring)
51.TSM.xx	Tempest System Manager
55.WW	Windshield Wiper Kit

For custom options please consult Tempest

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Outdoor Projection Active Cooling Systems

Download 2D, 3D CAD Files here

Model	Enclosure								Shipping *(approximate, for budget purposes)*							
Oasis	L(in)	W(in)	H(in)	Lbs	L(cm)	W(cm)	H(cm)	Kg	L(in)	W(in)	H(in)	Lbs	L(cm)	W(cm)	H(cm)	Kg
59.100.L	36	30	21	112	91	76	53	51	46	38	31	172	117	97	79	78
59.100.P	36	20	33	117	91	51	84	53	46	28	43	177	117	71	109	80
59.125.L	36	34	21	126	91	86	53	57	46	42	31	186	117	107	79	85
59.125.P	36	20	37	131	91	51	94	60	46	28	47	211	117	71	119	96
59.150.L	42	30	23	143	107	76	58	65	52	38	33	223	132	97	84	101
59.150.P	42	22	33	150	107	56	84	68	52	30	43	230	132	76	109	105
59.200.L	44	32	21	145	112	81	53	66	54	40	31	225	137	102	79	102
59.200.P	44	22	40	190	112	56	102	87	54	30	50	270	137	76	127	123
59.202.L	44	32	21	145	112	81	53	66	54	40	31	225	137	102	79	102
59.202.P	44	22	40	190	112	56	102	87	54	30	50	270	137	76	127	123
59.204.L	44	32	24	166	112	81	61	76	54	40	34	286	137	102	86	130
59.204.P	44	24	40	208	112	61	102	94	54	32	50	328	137	81	127	149
59.210.L	51	34	28	239	130	86	71	109	61	42	38	359	155	107	97	163
59.210.P	51	25	40	251	130	64	102	114	61	33	50	371	155	84	127	169
59.250.L	51	37	28	260	130	94	71	118	61	45	38	380	155	114	97	173
59.250.P	51	25	47	295	130	64	119	134	61	33	57	415	155	84	145	189
59.305.L	51	34	30	256	130	86	76	116	61	42	40	376	155	107	102	171
59.305.P	51	27	40	271	130	69	102	123	61	35	50	391	155	89	127	178
59.310.L	58	34	31	301	147	86	79	137	68	42	41	421	173	107	104	191
59.310.P	58	25	42	300	147	64	107	136	68	33	52	420	173	84	132	191
59.314.L	58	37	33	348	147	94	84	158	68	45	43	468	173	114	109	213
59.314.P	58	25	44	314	147	64	112	143	68	33	54	434	173	84	137	197
59.320.L	67	37	31	378	170	94	79	172	77	45	41	538	196	114	104	245
59.320.P	67	25	40	330	170	64	102	150	77	33	50	490	196	84	127	223
59.322.L	58	37	33	348	147	94	84	158	68	45	43	508	173	114	109	231
59.322.P	58	25	44	314	147	64	112	143	68	33	54	474	173	84	137	215
59.514.L	58	37	33	348	147	94	84	158	68	45	43	508	173	114	109	231
59.514.P	58	25	44	314	147	64	112	143	68	33	54	474	173	84	137	215
59.525.L	67	37	35	427	170	94	89	194	77	45	45	587	196	114	114	267
59.525.P	67	30	47	465	170	76	119	211	77	38	57	625	196	97	145	284
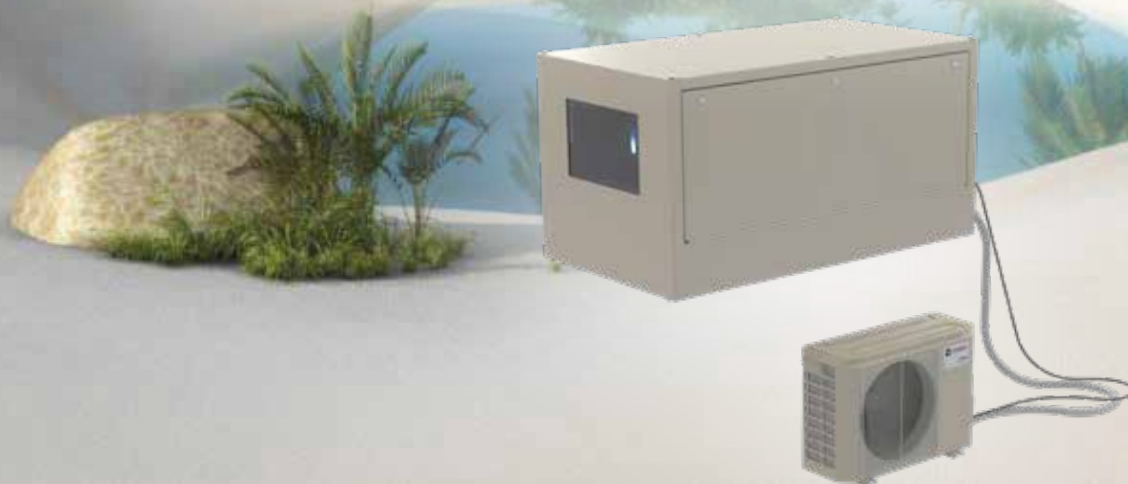
Oasis Configurator

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

Name	
Company	
Email	
Phone	
Project Name & Location	
Projector & Lens Make/Model #	Projector: | Lens:
Oasis Model	**59. _____**
Quantity	
Destination Country	
Install Date	
Enclosure Type	Landscape ☐ Portrait ☐ UST ☐

Required Options

Line Set Length	3m ☐ 5m ☐ 8m ☐ 10m ☐ 15m ☐
ODU Vibration Mount	Yes, Qty _____ No ☐
Sun Shade	Yes, Qty _____ No ☐
Cyclovator	Yes, Qty _____ No ☐
Angle Mount Kit	Yes, Qty _____ No ☐
Stacking Kit	Yes, Qty _____ No ☐
Swivel Stacking Kit	Yes, Qty _____ No ☐
Unistrut Kit	*Mounting: Top* ☐ Yes, Qty _____ No ☐ *Bottom* ☐
Ethernet Comms	*51.D4.23 (TSM)* ☐ Yes, Qty _____ No ☐ *51.D4.15 (TEMP)* ☐
Windshield Wiper	Yes, Qty _____ No ☐

Projector Power Outlet *(all types include 2 x IEC 60320 C13 Aux Power)*:
IEC 60320 C19 20Amp   _____ ☐
IEC 60309 30/32Amp   _____ ☐
Custom (specify) _____ ☐

Color, standard	Light Bronze ☐ Black ☐ White ☐
Color, custom	Custom, RAL # _____ Gloss Level _____% Salt Fog Primer Yes ☐ No ☐

User manuals and CAD drawings: www.tempest.biz

UST Lens Configuration:

90deg Up ☐   90deg Down ☐   Periscopic A ☐

90deg Right ☐   90deg Left ☐   Periscopic B ☐
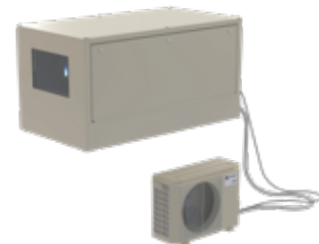
Straight, Vshift Down ☐   Straight, Vshift Up ☐
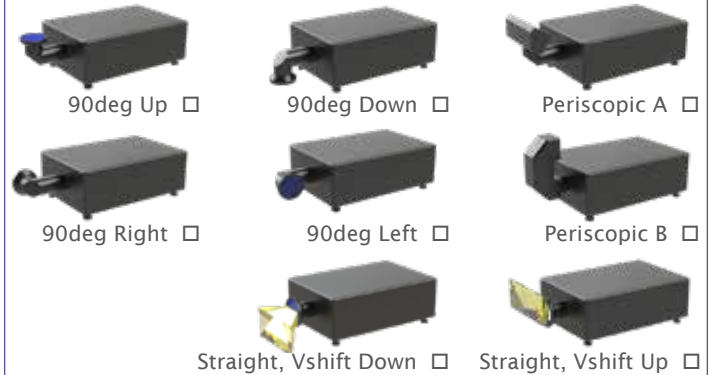
Multizone Systems:

Please download the Oasis Multizone Configurator from our web site, complete, and email to info@tempest.biz.

Custom Requests:

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

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