

Tempest is the world's leading manufacturer of large format indoor projector enclosures for noise attenuation in presentation suites, digital cinema, live theatre and concert venues - any noise-sensitive indoor space. Larger Tacit models are projector-specific for projectors above 20K lumens, and have been tested and approved for each of the projectors covered, up to 50.000 ANSI lumens.

New:

come with ARcoated optical grade port glass with >98% visible light transmission.

And:

All Tacit Landscape



Why so Quiet?

bottom for easy installation.

portrait models.

to order.

order.

Tacit offers excellent projector

access, with full-length lockable

side access doors, and a projector

slide that may be ordered for right

or left access on all landscape and

Standard colors: White (RAL 9003

semi-gloss) or black. Other colors

Tacit is equipped with Tempest's

patented DEC4 Control, featuring

a comprehensive display and

Portrait and Ultra-Short-Throw

versions are available to special

remote monitoring options.

There are several parts to the

- · First, Tacit enclosures are airtight boxes with excellent seals, which do much of the work.
- · Second, we line Tacit enclosures with two layers of high performance melamine sound insulation foam — rated incidentally to the highest fire safety standards.
- · Third, we put the exhaust fan someplace else. As a rule of thumb, you need to blow through an enclosure about double the amount of air being handled by the projector itself.

That means forced cooling, and that means noise. The Tacit exhaust fan is located at the end of a duct (by others), which may be in an insulated ceiling space, an adjoining room or an outside

The exhaust fan may also feed into the building air return, though we don't recommend feeding air to the enclosure inlets from the building air supply. It should be brought in at moderate temperature from a room or ceiling void.

This combination achieves excellent attenuation in the audience space, which is our sole aim.

Now Tempest Tacit enclosures monitor air temperature where it matters — right next to the projector air inlet. You can set a target air inlet temperature limit, and Tacit's variable speed remote fan will blow just hard enough to keep it there.

You told us that our user interface was great, but that it could be distracting or hard to reach on the outside. So now it's right where you need it, next to the projector.

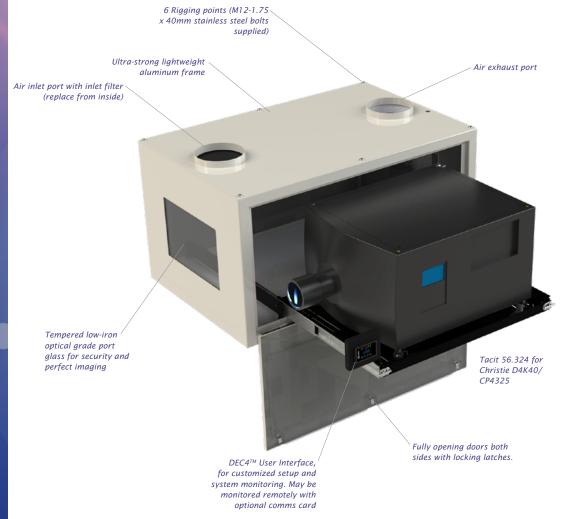


All Tacit enclosures

enclosures come with DCI-compliant angled port glass.

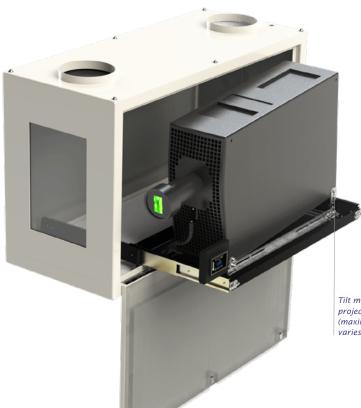


Landscape









Portrait

Like all Tacit models, each
Tacit portrait enclosure
is customized for the
intended projector, so we
need to know the projector
you're using when you
order

Not all projectors may be used in portrait mode — check with your projector manufacturer before ordering.

Some projectors may be used in portrait mode but only in one orientation — either base left or base right (picture here shows a Christie Crimson installed base left.

Tilt mechanism allows projector tilt adjustment (maximum tilt angle varies by projector).

Ultra Short Throw



Tacit UST enclosures allow you to paint the whole wall from just above or below. UST enclosures are wider than standard landscape enclosures, to allow for the extreme width of the projection beam without clipping.

Tacit UST enclosures may be configured to mount above the image (projecting down) or below it (projecting up). Due to the wide variety of UST lens solutions on the market, Tacit UST enclosures are specially

built for your project: Contact Tempest and talk to us about your next UST adventure!





Installation

Tacit Remote Blower Kit

51.RFA.220 (Tacit 050-150)

51.RFA.270 (Tacit 210 and up)

Tacit's powerful remote blower must be located in an adjoining space to the Tacit enclosure, out of audience earshot. Connection to the the enclosure is via one 2-conductor power cable (48Vdc, 120W), and one twisted pair for speed control and status feedback — a CAT5 cable is fine. The cable may be pulled back to the enclosure through the exhaust duct if desired.

Mount the blower kit either in a convenient space in free air, or in the side of a building return HVAC duct.

Fan Speed Control

Tacit uses a powerful variablespeed blower in a remote location to keep the projector at optimum operating temperature.

The remote blower will run at the minimum speed required to maintain the target projector inlet temperature, keeping fan noise to a minimum and enabling virtually infinite fan life.

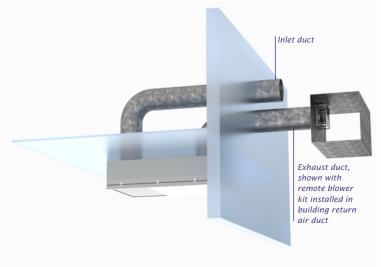
Tacit's temperature sensor is now located exactly where you need it — right by the projector's inlet vent, and user settings allow you to set a target inlet temperature to suit the needs of your projector.

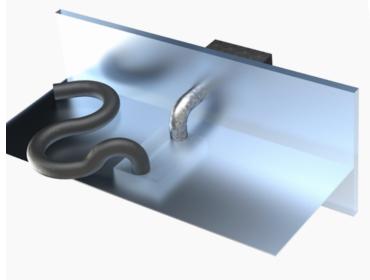
Ductwork (by others)

For best results, install 250mm (10") air ducts for air inlet and exhaust (200mm/8in for Tacit 050-150).

The exhaust duct should be as short as possible (maximum 10m/30ft), and with a minimum of sharp bends, to optimize airflow.

The inlet duct should ideally connect to an adjoining air-conditioned space, for best cooling and acoustic performance. DO NOT pull air from the building HVAC supply if it may be used for heating as well as air conditioning.





If it is impractical to bring inlet air from a remote location, use a length of padded flexible hose (250mm/10in ID) in an 'S' configuration to draw in air and muffle any noise escaping through the air inlet path.



In cases where additional ductwork is not feasible such as in historic buildings, consider Tempest's *Zen* standalone enclosures.

Tacit — or Zen?

Tempest also offers Zen standalone (ductless) indoor projector enclosures.

There is not much difference in noise attenuation between Tacit and Zen enclosures, but they both offer advantages for different types of application:

Use Tacit:

- Slightly better acoustic performance
- · Portrait, UST versions
- · Custom applications
- Hostile environments (eg: pool areas, theme park rides)
- if heat load in the space is an issue

Use Zen:

- · Simple installation
- · No air ducts
- · Landscape format





Acoustic Performance

Frequency	Ambient	Projector	Projector in
(Hz)	dB	(Panasonic	Tacit 210.L
		PT-RZ21K)	Enclosure
		dB	dB
20	19.4	28.2	21.9
25	17.8	29.9	21.7
32	13.6	24.7	18.5
40	17.3	24.0	26.7
50	12.2	23.2	25.8
63	16.3	26.6	25.9
80	15.0	25.1	23.9
100	7.3	28.3	24.5
125	8.0	31.6	27.1
160	1.6	34.0	25.8
200	-1.5	37.7	26.2
250	-1.2	39.0	27.6
315	-1.7	36.3	22.4
400	-1.1	35.7	20.4
500	-0.4	37.0	16.7
630	-0.1	36.2	13.7
800	0.6	35.4	13.5
1,000	1.3	35.5	11.4
1,250	1.9	34.2	8.6
1,600	3.9	31.9	6.0
2,000	3.4	29.6	5.2
2,500	4.3	31.8	5.2
3,150	5.2	29.1	5.8
4,000	6.2	23.0	6.4
5,000	7.0	19.9	7.1
6,300	7.6	17.6	7.6
8,000	7.9	14.8	7.9
10,000	8.0	13.9	8.0
12,500	8.0	12.2	8.0
16,000	8.1	13.3	8.1
20,000	8.7	21.0	8.3
dBA	17.0	44.0	25.5

Acoustic Test Setup (Anechoic Chamber)

Test Lab:

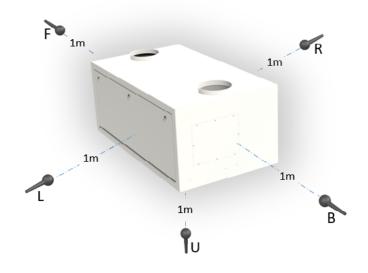
Western Electro-Acoustic Laboratory, Santa Clarita, California

Date: April 9th, 2021

Microphones:

- 1. 1m in front of test unit
- 2. 1m right of test unit
- 3. 1m left of test unit
- 4. 1m behind test unit
- 5. 1m below test unit

Mic values were integrated to arrive at the above values.



Acoustic Performance Data

The data shown were generated in an anechoic chamber, using a Panasonic PT-RZ21K projector and a Tacit 56.210.L enclosure. Three tests were performed:

- Ambient chamber sound pressure level
- 2. Projector, 100% ight output, on isolated mount
- Projector, running in Zen enclosure, on isolated mount.

Detailed acoustic test data, from anechoic and reverberant chambers, are available for download here.

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 enclo-

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

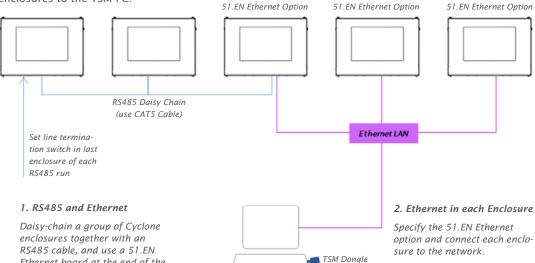
TEMPEST System Manager Fan % Cyclone 310 Left 1 DEC4 Controller Cyclone 310 Left 2 231V 12.2A 46.0% 23.8°C 0.0% 100.09 DEC4 Controller Cyclone 310 Left 3 Override 231V 0.0A 49.4% 22.6°C 0.0% 0.0% Tripped DEC4 Controller DEC4 Controller Cyclone 310 Left 5 231V 12.2A 46.1% 23.4°C 0.0% 100.0% 23.5°C 231V 0.0% Cyclone 310 Left 6 Lamp on DEC4 Controller Cyclone 310 Right 1 231V 12.2A 46.4% 23.8°C 0.0% 100.0% DEC4 Controller Cyclone 310 Right 2 Lamp on 231V 12.2A 46.3% 23.5°C 0.0% 100.0% 23.2°C ne 310 Right 3 231V 0.0% Lamp on ne 310 Right 4 231V 12.2A 46.1% 23.1°C 0.0% 100.0% 11 DEC4 C V Desc 12 DEC4 C V Labe 13 DEC4 C V Statu 14 DEC4 C V Curre ne 310 Right 5 Lamp on 231V 12.2A 46.0% 0.0% 100.0% Lamp on ne 310 Right 6 23.4°C ard 100 UST 1 ard 100 UST 2 231V 231V 51.3% 51.8% 22.1°C 22.0°C 0.0% 0.0% Standby 0.2A Standby 15 DEC4 C V ard 100 UST 3 231V 51.4% 0.0% 0.0% ard 100 UST 4 Standby 231V 0.2A 51.3% 22.3°C 0.0% 0.0% ard 100 UST 5 0.2A 21.8°C 0.0% 231V 51.3% 0.0% Standby 18 DEC4 C V Htr % Standby rd 100 UST 6 231V 0.2A 51.6% 22.1°C 0.0% 0.0% 19 DEC4 C ard 100 UST 7 Standby 231V 0.2A 51.5% 21.4°C 0.0% 0.0% 20 DEC4 Controller Blizzzard 100 UST 8 术

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:



Local PC

Ethernet board at the end of the line to connect 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:





Tacit Ordering Guide

Tacit Pro	cit Projector Enclosure Dimensions' Enclosure Shipping																	
Model	Orientation ²	Typical Projectors ³	L (cm)	W (cm)	H (cm)	Kg	L (in)	W (in)	H (in)	Lb	L (cm)	W (cm)	H (cm)	Kg	L (in)	W (in)	H (in)	Lb
56.050.L	Landscape	Most, 5-7,000 Lumens	74	76	37	27	29	30	15	59	91	91	61	43	36	36	24	94
56.050.P	Portrait	Most, 5-7,000 Lumens	74	43	71	29	29	17	28	64	91	91	61	45	36	36	24	99
56.100.L	Landscape	Most, 7-10,000	86	81	39	39	34	32	16	85	91	91	61	55	36	36	24	120
56.100.P	Portrait	Lumens	86	43	76	43	34	17	30	95	91	91	61	59	36	36	24	130
56.125.L	Landscape	Panasonic PT-MZ	86	91	39	43	34	36	16	94	91	107	61	59	36	42	24	129
56.125.P	Portrait	Series	86	43	86	47	34	17	34	104	91	107	61	63	36	42	24	139
56.150.L	Landscape	Most 12-15,000	107	81	44	48	42	32	18	106	132	86	51	69	52	34	20	151
56.150.P	Portrait	Lumens	107	48	81	54	42	19	32	118	132	86	51	74	52	34	20	163
56.200.L	Landscape	Epson EB-PU 22xx	86	91	46	48	34	36	18	106	107	112	71	85	42	44	28	186
56.200.P	Portrait	LP30II LB I O ZZXX	86	51	91	51	34	20	36	113	107	71	117	88	42	28	46	193
56.202.L	Landscape	Panasonic PT-RQ25K,	112	81	46	59	44	32	18	130	132	102	71	95	52	40	28	210
56.202.P	Portrait	DPI M-Vision 23K	112	51	76	62	44	20	30	135	132	71	102	98	52	28	40	215
56.204.L	Landscape	Christie M4K-25	117	81	51	62	46	32	20	136	137	102	76	98	54	40	30	216
56.204.P	Portrait	Ciristic Wilk 25	117	56	76	64	46	22	30	141	137	76	102	100	54	30	40	221
56.210.L	Landscape	Panasonic PT-RZ21K,	127	91	51	82	50	36	20	181	147	112	76	119	58	44	30	261
56.210.P	Portrait	Barco G100	127	56	86	85	50	22	34	188	147	76	112	122	58	30	44	268
56.212.L	Landscape	Barco UDM/Njord	122	86	56	81	48	34	22	179	142	107	81	118	56	42	32	259
56.212.P	Portrait	24.7 00 02.11,7 1,901 4.	122	61	81	83	48	24	32	183	142	81	107	120	56	32	42	263
56.250.L	Landscape	Epson L-30000	127	94	51	94	50	37	20	206	147	114	76	130	58	45	30	286
56.250.P	Portrait	2,550 2 50000	127	56	102	98	50	22	40	216	147	76	127	134	58	30	50	296
56.305.L	Landscape	Panasonic PT-RQ35K,	132	86	61	93	52	34	24	205	152	107	86	141	60	42	34	310
56.305.P	Portrait	RZ34K, Barco UDM	132	66	81	95	52	26	32	209	152	86	107	143	60	34	42	314
56.310.L	Landscape	Barco UDX 40K	137	91	61	104	54	36	24	229	157	112	86	152	62	44	34	334
56.310.P	Portrait		137	66	86	107	54	26	34	235	157	86	112	155	62	34	44	340
56.314.L	Landscape	Christie Griffyn 32K	147	91	61	109	58	36	24	239	168	112	86	157	66	44	34	344
56.314.P	Portrait		147	66	86	112	58	26	34	245	168	86	112	159	66	34	44	350
56.322.L	Landscape	DPI Titan Laser 37K	142	94	61	128	56	37	24	283	163	114	86	176	64	45	34	388
56.322.P	Portrait		142	66	102	132	56	26	40	291	163	86	127	180	64	34	50	396
56.514.L	Landscape	Christie Griffyn 50K	147	94	61	124	58	37	24	274	168	114	86	172	66	45	34	379
56.514.P	Portrait		147	66	97	128	58	26	38	283	168	86	122	176	66	34	48	388
56.522.L	Landscape	DPI Insight 8K 37K	163	94	71	181	64	37	28	399	183	114	97	238	72	45	38	524
56.522.P	Portrait		163	76	112	186	64	30	44	409	183	97	137	243	72	38	54	534
56.525.L	Landscape	Panasonic PT-RQ50K	163	94	66	145	64	37	26	319	183	114	91	202	72	45	36	444
56.525.P	Portrait	•	163	71	91	148	64	28	36	326	183	91	117	205	72	36	46	451

¹ Due to continuous product development, weights and dimensions are subject to change. Check with Tempest before construction work.

All Tacit products are built to order. Please contact 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

		ors

The enclosures in this brochure are shown in our standard warm white semi-gloss or black. Any RAL color available to special order.

Options

56.UR.xxx Unistrut Rail Kit (Use the 3-digit enclosure model #, eg 56.UR.200 for Tacit 56.200)

51.IFL.11 Replacement Inlet Filter Tacit 56.1xx-3xx Models

51.IFL.13 Replacement Inlet Filter Tacit 56.400 and up

51.EN Ethernet Board, for Tempest TEMP monitoring

51.TSM.xx Tempest System Manager

0000.CL Custom Color — specify any RAL #, plus % gloss desired

² Landscape and Portrait versions shown here. UST versions are custom or semi-custom. Please consult Tempest for details

 $^{^{3}}$ For projectors not shown here, please contact Tempest — we will be happy to accomodate any projector type



Tacit Configurator

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

Name *				
Company *				
Email *				
Phone				
Project Name & Location *				
Projector & Lens Make/Model #	Projecto	or: *	Lens: *	
Tacit Model *	56.		Quantity	
Destination Country *				
Expected Install Date *				
Enclosure Type *	Landsca	ape Port	rait US	Т
Projector Slide *				
Projector Mount *		ape/UST: Feet : Feet Left	Down Fe Feet Right	
Supply Voltage *				
Options	1			
Cyclovator	Qty	No		
Angle Mount Kit	Qty	No		
Unistrut Kit	Qty	Mounting		No
Ethernet Comms	Qty	Type		No
Windshield Wiper	Qty	No		
Spare Inlet Filter	Qty	No		

Projector Power Outlet (all types include IEC 60320 C13 Aux Power):
Select Type:
Custom:

Color, standard	Black White
Color, custom Gloss levels higher than	Custom, RAL #
30% may show up weld marks. Tempest accepts no	Gloss Level %
responsibility in this event.	Salt Fog Primer: Yes No

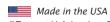


Custom Requests.	
	_

Factory Use Only:	SO #:		Date:	
Electrical:	IEC	NEMA	Wiring p:	
Test:	Function	Proje	ctor	
Hardware Kit:				

User manuals, 2D and 3D CAD drawings at www.tempest.biz





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