

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)

THEATRE

THEATRE SEATING CAPACITY: 1141 (maximum)

Stalls	868
Stalls (without wagon seats)	776
Stalls (without wagon seats and orchestra pit seats)	752
Circle	273

- * 12 seats in Stalls exchangeable for 06 x wheelchair spaces (F2 – F7, F30 – 35)
- * 24 cockpit seats at rear centre Stalls for placement of audio and/or lighting control boards if required (U13 – U24, V13 – V24)
- * Closed control rooms at rear stall for lighting, audio, projection and communications
- * *Refer to Theatre Seating Plan for details*

THEATRE ACOUSTICS

Reverberation Time is between 1.6 – 2.4 seconds (unoccupied) and 1.4 – 1.9 seconds (occupied). Noise Criterion (NC) is 25.

LOADING/UNLOADING (shared with STUDIO and LAB)

Access from street level via east entrance road to loading bay. A dock leveler is provided measuring approximately 1.80m x 2.50m x 0.85m (dock height).

- Loading driveway entrance clear - Height 4.50m
- Loading bay to loading platform roller shutter - W 5.40m x H 4.50m
- Loading door to stage - W 3.00m x H 4.00m
- Cargo/goods lift (3000kg) for access to Studio & Lab – W 3.00m x D 2.20m x H 2.70m.

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STAGE FACILITIES

Fire Safety Curtain

A mechanised and electrically operated fire curtain placed in-line with the proscenium to segregate the stage and auditorium to be lowered or raised in an event of a fire or when required. **It is a requirement that the path of the descending curtain must not be obstructed during productions.**

Acoustic Canopy System

TRCC Theatre's Concert Mode uses a motorised Acoustic Canopy System comprising of one ceiling, one rear and two side panels – these can be bumped-in/out to its pre-designated positions as and when required.

Orchestra Pit Platform Elevator

“Gala Spiralift” – A motorised pit platform with timber flooring similar to the stage, travelling from stage level down to its stored position with variable stops along its travel and capable of displacing a spread load of 8000Kg.

Preset stops at:

- a) Stage level
- b) Auditorium level
- c) Orchestra playing level
- d) Wagon seats store

Platform

Width at centre	3.45m
Depth at seat store level	2.75m
Depth at playing level	1.37m

*additional booking time and/or manpower is required to set up orchestra pit

Stage Lift with Revolving Stage

“Serapid Chained Lift” - A motorised lift platform with timber flooring similar to the stage, travelling from stage level down to its stored position with variable stops along its travel and capable of displacing a spread load of 7200Kg. Within the centre of the Stage Lift Platform lies a Revolving Stage that can be rotated clockwise or anti-clockwise.

Stage lift platform:

- Width 8.40m
- Depth 4.60m

Revolving Stage:

- Diameter 3.70m

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Flying Systems

Comprises a combination of:

- a) 28 sets manual single purchase counterweight flying Linesets (C) placed across at 300mm centres, each measuring L 22.00m x 50mm “H” pipes with a spread load of between 200~500kg.
- b) 11 sets motorised flying Linesets (M) placed across at 300mm centres, each measuring L 22.00m x 50mm “H” pipes with a spread load of 750kg.
- c) 2 sets motorised flying Linesets placed lateral for masking the SL/SR wing spaces each measuring 12.00m x 48mm pipes with a spread load of 200kg. For draw, manual hempline is used.

All Flying battens/bars are fixed and cannot be changed.

Draperies

- House Curtains
1 set bi-parting curtains Velour Velvet material sewn with 100% fullness hung on a fixed speed motorised tracks with local remote control on stage and another in the control room.
Curtains: Drop 12.50m x Across 12.50m.
For draw, speed of travel is 30 sec for flying in/out.
- House Border/Legs
1 Border straight sewn Black Serge on Lineset 3 Drop 4.00m x Across 22.00m.
Legs Drop 9.50m x Across 2.70m
- Border & Legs
5 sets of straight sewn Black Serge Borders Drop 4m x Across 22m and Legs Drop 9.50~11.00m x Across 4.50m
- Intermediate Curtains
2 sets of Intermediate manual bi-parting Black Serge Curtains straight sewn hung on Lineset 19 and 27. Curtains Drop 9.50m x Across 11.30m.
- Masking Curtains
6 sets of Black Serge Drops straight sewn for masking SL & SR wing spaces Drop 11.00m x Across 2.30m
- Blackout Curtain
A straight sewn Black Serge Curtain is available as a blackout drop. Drop 12.50m x Across 22.00m.
- Cyclorama
A Plastic Cyclorama measuring Drop 11.00m x Across 22.00m.
- Projection Screen
 - 01 set of motorised Velveteen Front Projection Screen complete with frame, Black Serge Curtains for masking and hung on a track/rail. Dimension W 13.60m x H 5.30m.
 - 01 set of Stewart Filmscreen W 6m x H 4.5m Rear Projection Screen flying on manual counterweight Lineset 13

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LINE SET - HOUSE SETTING

Line No	Position	House Hang	Weight
Advanced Bar		LX	-motorised-
Fire Curtain			
House Curtain			-motorised-
C1		Soft Border	
C2	25	Teaser (Hard Border)	
C3	67	Hard Legs	
C4	30	-EMPTY-	
LX1	30		-motorised-
LX2	30		-motorised-
C5	30	-EMPTY-	
C6	25	-EMPTY-	
C7	46	Soft Border	
C8	25	Soft Legs	
Acoustic Shell		Ceiling	-motorised-
LX3			-motorised-
LX4	176		-motorised-
C9		-EMPTY-	
C10	46	Soft Border (Screen Border)	
C11	25	Draw Curtains (1 st Intermediate)	
Front Screen		Front Projection Screen	-motorised-
LX5	46		-motorised-
C12		Soft Border (Masking for LX & Screen)	
C13	28	Rear Projection Screen	
C14	25	-EMPTY-	
C15	25	Soft Legs & Border	
C16	38	-EMPTY-	
C17	25	Black draw curtains (2 nd Intermediate)	
LX6	35		-motorised-
C18	35	-EMPTY-	
C19	25	Border	
C20	25	-EMPTY-	
Acoustic Shell		Back Panel	
LX7	184		-motorised-
C21		Soft Legs	
C22	30	-EMPTY-	
LX8	100	CYC LX	-motorised-
C23		-EMPTY-	
C24	30	-EMPTY-	
C25	30	Black Backdrop	
C26	30	Cyclorama	
C27	30	-EMPTY-	
C28	30	-EMPTY-	

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STAGE SPECIFICATIONS

<u>Proscenium Opening</u>	<u>Measurement in metres</u>
Width – proscenium wall opening	18.16
Width – with side legs in	13.00
Edge of stage to rear wall	17.81
Edge of stage to rear cyclorama	16.58
Depth – edge of stage to rear acoustic shell	12.35
Depth – edge of stage to curtain line	1.90
Depth – curtain line to 1 st intermediate curtain	6.10
Depth – curtain line to 2 nd intermediate curtain	9.10
Height – stage level to tip of:	
Proscenium ceiling	12.10
First border (variable trim)	7.00 ~ 9.00
1 st fly gallery	9.90
2 nd fly gallery	15.52
Grid	26.72
Wing Spaces in respect to opening:	
Stage left (SL)	9.15
Stage right (SR)	10.22
Apron stage(orchestra pit area)	
Width (US)	19.03
Width (DS)	20.4
Depth	3.45
Depth – orchestra pit	1.37

Rigging Access Equipment

01 x Genie AWP-30 Aerial Work Platform (11m working height, platform height 9m)

Portable Ladders will be available

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LIGHTING SYSTEM

Console

Strand Light Palette with 48 submaster and 12 playback faders, 4 DMX 512 output. Dual video display support. Show file compatibility with all 300 and 500 series consoles.

Racks and Dimmers

Strand EC21 96 Channel Dimmer Rack fitted with 48 Dual 5kw Dimmer Module.

Strand EC21 48 Channel Dimmer Rack fitted with 20 Dual 5kw Relay Module.

Strand SLD90 and accessories

04 X 96 Channels Racks each with 48 dual 5kw dimmer modules with individual RCD protection.

01 X 48 Channels Rack with 20 dual 5kw dimmer modules with individual RCD protection and 04 X dual 5kw non-dimmed modules for UPS circuits. Dimmable output voltage variable 0~230v 50Hz A/C. Total 432 modules. All lighting receptacles are 16A CEE17 throughout.

Acoustic Shell Lighting System

5 stage dimming module for in-house ceiling lighting

House Light System

5 stage dimming module for in-house ceiling lighting

Additional Power Available

Location: DB at backstage right near doors to Loading Bay

- 1 x 100A 3TPN
- 1 x 63A TPN
- 2 x 32A TPN
- 1 x 16A TPN
- Domestic 3-pin 13A 240V switched socket outlets are available at various locations on and around stage area. Approach TRCC technicians for the most suitable source.

Approval from TRCC management must be sought before any of hirer's own electrical equipment is attached to, or used in conjunction with TRCC's own electrical fittings.

**note: Singapore power is 400 volts 3 phase, and 230 volts single phase 50 Hz.*

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LIGHTING INVENTORY

Theatre House Rig (*subject to additional rental charges):

FOH:

<u>FOH 1:</u>	<u>(W)</u>	<u>Qty</u>
10° ETC Source 4 Profile Spot	750W	10
7.5/19° Selecon Pacific Zoom	1000W	07
<u>FOH 2:</u>		
10° ETC Source 4 Profile Spot	750W	10
7.5/19° Selecon Pacific Zoom	1000W	07
<u>Alcove 1 (SL & SR):</u>		
26° ETC Source 4 Profile Spot	750W	12
<u>Alcove 2 (SL & SR):</u>		
15/30° ETC Source 4 Zoom Profile Spot	750W	16

Onstage:

<u>Overhead:</u>	<u>(W)</u>	<u>Qty</u>
ETC Source 4 Parnel	750W	72
15/30° ETC Source 4 Zoom Profile Spot	750W	27
Strand Coda 4	500W	16
Par 64 (MFL)	1000W	18
50° ETC Source 4 Profile Spot	750W	10
26° ETC Source 4 Profile Spot	750W	10
*VariLite VL500 Wash Moving Lights	1200W	06
*VariLite VL2500 Spot Moving Lights	700W	10
<u>Side Booms:</u>		
26° ETC Source 4 Profile Spot	750W	16

Additional Lighting Inventory (*subject to additional rental charges):

Consoles

01	*Avolites Diamond 4 Elite Moving Lights Console	-
01	*Avolites Pearl 2008 Moving Lights Console	-

Fixtures

03	*Robert Juliat Cyrano HMI Followspot w/ GT-4000stand	2500W
16	*ETC Source 4 Revolution Moving Light w/ Color Scroller	750W
10	*Varilite VL3000Q Moving Lights	1200W
50	ETC Source 4 Parnel	750W
40	ETC Source 4 Profile Spot	750W

Misc Accessories

1 lot	ETC Source 4 Parnel Top Hat	-
1 lot	ETC Source 4 Profile Spot Drop-in Iris	-
60	ETC Source 4 Gobo Holder "B" Size	-
1 lot	Goboland "B" Size Standard Gobos	-

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SOUND SYSTEM

House Console:

Yamaha PM1D live performance Digital Audio System with CSD1 Console Surface and dual power supply and engine for 128 Mic/Line Inputs, 24 Stereo Digital Patch In and 64 Line, 32 Stereo Digital Patch Out. DSP 96 Mono/8 Stereo In, 2 Stereo+ 48 Bus and 24 Matrix Out. Supplemented with A/D converters, Digital AES/EBU In/Out, Syn Clock, UPS, Ethernet Hub, Processing Controllers, etc.

Yamaha CS1D control surface with single power supply for cockpit mixing position.

Sound Reinforcement Systems

ITEM	QTY
Proscenium Centre Loudspeakers System	
- NEXO ALPHA M3-CF consist of 2 x 10" MF and 2 x 3 HF	4
- NEXO ALPHA B1-CF 14" LF	2
- NEXO PS15 Full Range consist of 15"LF, 2" Throat and 3" HF	3
Proscenium Left & Right Loudspeakers System	
- NEXO ALPHA M8-CF consist of 2 x 10" MF and 2 x 3 HF	6
- NEXO ALPHA B1-CF 14"LF	6
- NEXO ALPHA S2-CF consist of 2 X 18" Subs	4
Stage Edge Front fill Loudspeakers	
- Tannoy CMS 8TDC 2-Way 8" Full Range	8
Supplemental Loudspeakers System	
- NEXO PS15 Full Range consist of 15"LF, 2" Throat and 3" HF	3
- NEXO LS1200 18" Subs	1
Wall Loudspeakers around the Auditorium side walls	
- NEXO PS10 consist of 10" LF and 1" Throat HF Driver	20
Fixed and Stage Portable Foldback and Monitors Loudspeakers	
- Nexo Loudspeakers systems powered by Yamaha Power Amplifiers with NEXO controllers and Yamaha Studio Powered Monitors for the Control Room	-
Power Amplifiers to power the Loudspeakers System	
- 1 Lot Yamaha Power Amplifiers Model PC 9500N and PC4800N with NEXO controllers	-

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Playback Backline Equipment (Control Room)

ITEM	QTY
Denon DND-6000 Dual CD Player	1
Tascam 122 MKIII Cassette Deck	2
Tascam MD 350 MD Deck	2
Tascam CD-450 CD Player	2
Tascam CD-RW2000 CD recorders for CD-R	2

Wireless Microphones – Installed (*subject to additional rental charges):

ITEM	TYPE	QTY
*Shure UHF-R Wireless Set	Handheld (Beta87A) or Headset (WCH53) <i>(first 4 pieces are free of charge)</i>	12

Wired Microphones (subject to additional rental charges)

An assortment of microphones - Shure, AKG, Neumann, Sennheiser, etc and direct boxes are available. Refer to additional Equipment Rental Rates.

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COMMUNICATIONS SYSTEM

ClearCom Matrix System Programmable Production Intercom with connection to Sound Control Lighting Control, Follow-spots, Fly Gallery 1 & 2, Stage Left & Right and other technical locations

- **Stage Manager's Desk**

A Stage Manager's work desk is available on Stage Right

- **Production Desk (Director's)**

A portable Director's work desk is available.

- **Production Communications System**

ClearCom Matrix System Programmable Production Intercom

- **Headsets and Beltpacks**

15 RS-502 dual channel beltpack

25 CC-95 single muff headset

- **Cue Lights**

2 x 8 Channel Cue Master Station Model ASL TS120/TS99 installed at a) Director's Management Desk and b) Comms Rack SR. 20 ASL TS-10 cue outstations

- **Paging System**

Yamaha Programmable Paging System for backstage, dressing rooms & all operation areas, corridors, passages ways, etc.

- **Audio Show Relay**

Sound from the performance is routed to dressing rooms, passages, etc.

- **Foyers Chime**

To alert patrons that it is about time to open the performance, amplified chimes signals are relayed to the loudspeakers in the foyers before the opening and intermission.

- **Late-Comers Video Show Relay**

For late-comers, live video and audio signals are relayed to 42" LCD TV located at the stall and circle foyers.

- **Production CCTV**

To assist production, Panasonic colour cum infrared (night-vision) cameras are used to capture the production and relay the signals to 7" LCD at the Director's desk and various technical locations with 15" LCD TV.

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PROJECTION SYSTEM (subject to additional rental charges)

Front Projection:

12K Ansi Lumens Barco Projector SLM R12 with 4.00~7.00mm Zoom lens & anamorphic attachment complete with A/V Switcher, Converter, Audio Monitors and LCD VDUs and Progressive Scan Visualiser. 01 set of motorised Velveteen Front Projection Screen complete with frame, Black Serge Curtains for masking and hung on a track/rail. Dimension W 13.60m x H 5.30m

Rear Projection:

12K Ansi Lumens Christie Digital S+12K DLP Projector with short throw wide angle lens linked to A/V Switcher, Converter, Audio Monitors and LCD VDUs and Progressive Scan Visualiser. 01 set of Stewart Filmscreen Rear Projection Screen flying on manual counterweight Lineset 13. Dimension W 6m x H 4.5m

Playback Decks:

01 x Pioneer DVD Model DV-S400

01 x JVC SR-VS30 Video Deck

02 x VGA/RGBHV (BNC) Direct Connection for Computer/External Playback Devices

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ADDITIONAL EQUIPMENT (*subject to additional rental charges)

Item Description	Qty
Stage Risers with skirting (maroon/ black) - L 8' x W 4'adjustable to heights of 16" or 24"	24
Republic Polytechnic Rostrum	02
Wenger Orchestra Chair	80
Wenger Music Stand	80
Wenger High Stool	5
*Sprung Floor	1 set
*Dance Mat (Black)	1 set
*Grand Piano - Kawai SK7	1
*Baby Grand Piano - Yamaha DC2A with Disklavier	1
*Upright Piano - Yamaha U5	1

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DRESSING ROOMS

Dressing rooms fitted with paging loudspeaker, dressing full length and table with mirrors lights, washbasins, costume racks and pin boards.

Level 1

- 2 Private Dressing Room with en suite toilet/shower
- 1 Group Dressing Room for 10pax
- 2 Large Group Dressing Rooms for 16pax

Level 2

- 1 Group Dressing Room for 10pax
- Ladies and Gents Toilets with hot/cold showers
- 1 Gents Changing Room
- 1 Ladies Changing Room
- 1 Handicap Toilet
- 1 Green Room with attached Pantry

Other Supporting Facilities (subject to additional rental charges)

- 1 Reception Room
- 6 Practice Rooms
- 1 Art Studio
- 1 Conference Room
- 2 Dance Studios

Note:

All inventory subject to availability. Kindly contact TRCC Production Department for additional information.

Full list of additional equipments available upon request.

In our efforts to serve you better, we would like to have your production requirements at the earliest possible time, preferably two weeks before your presentation. They are important to us as we would like to make it happen. Otherwise, depending on the availability of facilities, we will allot our usual basic to cater for your needs.

The above information is correct as of 30 October 2009 and is subject to changes without prior notice.