

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)**THEATRE****SEATING CAPACITY**

Total Capacity	1111 (Maximum)
Stalls (Level 1)	744
	62 (Wagon Seats)
	32 (Orchestra Pit Seats)
Balcony (Level 2)	273

- 22 seats in Stalls are removable for a maximum of 10 x wheelchair spaces
 - I1 – I11
 - I24 – I34
- 24 seats in Stalls are removable & reserved for placement of Sound & Lighting Cockpit position, if required
 - X10 – X21
 - Y10 – Y21

Control Rooms for Sound, Lighting, Projection and Communications are situated at the rear of the Stalls

Refer to Theatre Seating Plan for details

THEATRE ACOUSTICS

Reverberation Time is between 1.2 – 2.0 seconds (unoccupied) and 1.0 – 1.5 seconds (occupied). Noise Criterion (NC) is 25.

LOADING/UNLOADING (shared with STUDIO and LAB)

Access from street level via Woodlands Drive 91 / Republic Crescent to the TRCC Loading Bay.

- Dock Leveller is provided measuring 1.80m x 2.50m x 0.85m (dock height)
- Loading Bay driveway entrance clearance 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 Lift (max. 3000kg) for access to Level 2 and Level 3 facilities
- Cargo Lift dimensions – W 3.00m x D 2.20m x H 2.70m.

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)

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 Fire Safety 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 set up to its pre-designated positions as and when required.

*Additional booking time and/or manpower is required to set up the Acoustic Canopy System

Orchestra Pit Platform Elevator

“Gala Spiralift” – A motorised pit platform with black timber flooring matching 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.

Pre-set 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 venue 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 black timber flooring matching 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

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)**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 (German Legs), each measuring 12.00m x 48mm pipes with a spread load of 200kg
- d) 2 sets Intermediate bi-parting draw curtains, manual hemp line is used

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

Draperies

- House Curtains
 - 1 set bi-parting Plum Velour Velvet material sewn with 100% fullness, hung on fixed speed motorised tracks with local remote
 - Drop 12.50m x Across 12.50m per side
 - Draw speed of travel is 30 secs for flying in/out
- House Border/Legs
 - Straight sewn Black Serge
 - 1 set of House Border, Drop 15.00m x Across 22.00m
 - 1 set of Hard Border, Drop 4.00m x Across 22.00m
 - 1 set of Hard Legs, Drop 9.50m x Across 2.70m ~ 5.00m per side
- Border & Legs
 - Straight sewn Black Serge
 - 5 sets of Borders, Drop 4m x Across 22m
 - 4 sets of Legs, Drop 10.00~11.00m x Across 4.50m
- Intermediate Curtains
 - 2 sets of Black Serge Intermediate manual drawn bi-parting Curtains straight sewn, Drop 10.00m x Across 11.30m.
- Masking Curtains (German Legs)
 - 6 sets of Black Serge straight sewn for masking SL & SR wing spaces, Drop 11.00m x Across 2.30m each
- Blackout Curtain
 - 1 set of Black Serge Curtain, Drop 15.00m x Across 22.00m
- Cyclorama
 - 1 set of Plastic Cyclorama, Drop 11.20m x Across 22.00m
- Projection Screen
 - 1 set of AV Stumpfl W 8.2m x H 4.7m Rear Projection Screen

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)**LINE SET – DEFAULT HOUSE SETTING**

Line No	House Hang	Type	Remarks
Advanced Bar	LX	<i>Motorised</i>	
Fire Curtain		<i>Motorised</i>	
House Curtain		<i>Motorised</i>	
C1	House Border	Manual	Blackout curtain
C2	EMPTY	Manual	
C3	Hard Legs	Manual	
C4	EMPTY	Manual	
LX1	LX1	<i>Motorised</i>	
LX2	LX2	<i>Motorised</i>	
C5	EMPTY	Manual	Close to LX2
C6	EMPTY	Manual	
C7	EMPTY	Manual	
C8	Legs & Border	Manual	
Acoustic Shell	Ceiling	<i>Motorised</i>	
LX3	LX3	<i>Motorised</i>	
LX4	LX4	<i>Motorised</i>	
C9	EMPTY	Manual	Close to LX4
C10	Border	Manual	
C11	Draw Curtains (1 st Intermediate)	Manual	
Screen	EMPTY	<i>Motorised</i>	
LX5	LX5	<i>Motorised</i>	
C12	EMPTY	Manual	
C13	EMPTY	Manual	
C14	Border	Manual	
C15	LED Wall	Manual	Bar removed for LED Wall on chain hoist
C16	EMPTY	Manual	
C17	Draw Curtains (2 nd Intermediate)	Manual	
LX6	LX6	<i>Motorised</i>	
C18	EMPTY	Manual	Close to LX6
C19	Border	Manual	
C20	EMPTY	Manual	Close to Shell
Acoustic Shell	Back Panel	<i>Motorised</i>	
LX7	LX7	<i>Motorised</i>	
C21	Legs & Border	Manual	
C22	EMPTY	Manual	
LX8	CYC LX	<i>Motorised</i>	
C23	EMPTY	Manual	
C24	EMPTY	Manual	
C25	Cyclorama	Manual	
C26	Black Backdrop	Manual	
C27	NOT IN USE	Manual	
C28	NOT IN USE	Manual	

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)**STAGE SPECIFICATIONS**

Black timber sprung flooring of the following dimensions:

<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

Refer to Theatre Stage Plan for details

Rigging Access Equipment

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

- Operator must have valid MEWP certification

Portable Ladders will be available

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)

LIGHTING SYSTEM

Console

GrandMA2 Light Lighting Console with Fader Wing for up to 4096 Parameter Controls, fully patchable to 4 DMX Universes. Output via 5 Pin XLR and Ethernet

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.

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
- 1 x 32A TPN
- 1 x 16A TPN

Location: Stage Left behind Cyclorama

- 2 x 32A TPN

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.*

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)**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
14° ETC Source 4 Profile Spot	750W	05

FOH 2:

10° ETC Source 4 Profile Spot	750W	15
-------------------------------	------	----

Alcove 1 (SL & SR):

26° ETC Source 4 Profile Spot	750W	12
-------------------------------	------	----

Alcove 2 (SL & SR):

15/30° ETC Source 4 Zoom Profile Spot	750W	12
---------------------------------------	------	----

Onstage:

<u>Overhead:</u>	<u>(W)</u>	<u>Qty</u>
ETC Source 4 Parnel	750W	100
15/30° ETC Source 4 Zoom Profile Spot	750W	22
Strand Coda 4 (CYC)	500W	12
50° ETC Source 4 Profile Spot	750W	12
36° ETC Source 4 Profile Spot	750W	10
*Clay Paky Alpha Profile 700	700W	04
*Clay Paky Alpha HPE 700 Spot Moving Lights	700W	08
*Clay Paky Alpha 700 Wash Moving Lights	700W	12
<u>Side Booms (5 pairs):</u>		
26° ETC Source 4 Profile Spot	750W	40

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)**Additional Lighting Inventory (*subject to additional rental charges):**Fixtures

*Robert Juliat Cyrano HMI Followspot	2500W	02
*Clay Paky Alpha 300 Beam Moving Lights	300W	10
ETC Source 4 Parnel	750W	20
ETC Source 4 Profile Spot	750W	20

Misc Accessories

Martin JEM Hazer Pro	-	02
Martin JEM ZR-35 Fog Machine	-	02

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)**SOUND SYSTEM****House Console**

Yamaha Rivage PM5 Digital Audio System c/w RPIO622, 64In/32Out on stage, 32In/32Out in control room, with DANTE connection

Sound Reinforcement Systems

ITEM	QTY
-------------	------------

Main Left & Right Loudspeaker System

NEXO GEO S12 Line Array System, per cluster consist of:

NEXO GEO S1210	09
NEXO GEO S1230	01
NEXO LS18, 18" Subwoofer	04

Stage Edge Front Fill Loudspeakers

Yamaha NS-IC800, 2-way 8" Full Range	08
--------------------------------------	----

Fixed and Stage Portable Foldback and Monitors Loudspeakers

NEXO P12 Loudspeakers	1 lot
-----------------------	-------

Power Amplifiers to power the Loudspeakers System

NEXO NXAMP4x4 Amplifier with DANTE Connection	1 lot
---	-------

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)**Wireless Microphones – Installed (*subject to additional rental charges):**

ITEM	TYPE	QTY
Shure UHF-R Wireless Set*	Handheld (Beta87A) or Headset (WBH53) <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 injection (DI) boxes are also available.

Refer to additional Equipment Rental Rates

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)

COMMUNICATIONS SYSTEM

ClearCom HelixNet Digital Partyline 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

Clear-Com HelixNet Digital Partyline Production Intercom Master Station (Wired)
Clear-Com Tempest 2400 Digital Wireless Production Intercom Master Station

Headsets and Beltpacks

Clear-Com HBP-2X dual channel wired beltpack comes with single muff headset
Clear-Com Tempest 2400 dual channel wireless beltpack comes with single muff headset

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 43" LCD TV located at the stall and circle foyers.

Production CCTV

IR Cameras are used to capture the production and relay the signals to 43" TV at SM Desk and Control Room.

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)

PROJECTION SYSTEM (subject to additional rental charges)

Front Projection (On Cyclorama Projection only)

Epson EB-L20000U Laser Projector with 3LCD Technology complete with A/V Switcher, Converter, Audio Monitors and LCD VDUs.

Rear Projection

Christie Roadster WU20K-J 3 Chip DLP Projector with ILS 1.25 – 1.6 SX+ / 1.16 – 1.49 HD Short-Throw Zoon Lens complete with A/V Switcher, Converter, Audio Monitors and LCD VDUs.

- 01 set of AV Stumpfl Rear Projection Screen complete with frame, Black Serge Curtains for masking. Dimension 8.2m (W) x 4.7m (H).

LED Video Screen

CLT E391 LED panels with 3.9mm pixel pitch and 1200nits brightness, complete with LED Processor and collapsible cable tray. Dimensions: 4.5m (H) x 8m (W).

- LED video screen is on a fixed position, which only allows height adjustments.
- Multimedia content should be of 16:9, and in resolution of 1920 x 1080.
- Our system only support devices with HDMI inputs.

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)**ADDITIONAL EQUIPMENT (*subject to additional rental charges)**

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

THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)

DRESSING ROOMS

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

Level 1

Ladies and Gents Toilets

1 Group Dressing Room for 10pax

2 Large Group Dressing Rooms for 16pax

Level 2

Ladies and Gents Toilets with hot/cold showers

1 Group Dressing Room for 10pax

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 VIP Reception Room

1 VIP Holding Room

6 Practice Rooms

1 Art Studio

1 Conference Room

2 Dance Studio

Note:

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

Full list of additional equipment 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 14 Mar 2022 and is subject to changes without prior notice.