

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

<b>Total Capacity</b>	1111 (Maximum)
<b>Stalls (Level 1)</b>	744
	62 (Wagon Seats)
	32 (Orchestra Pit Seats)
<b>Balcony (Level 2)</b>	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.

*\*Current system has been decommissioned and cannot be used.*

#### 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
M10	Advanced Bar	<i>Motorised</i>	
-	Fire Protection Panel	<i>Motorised</i>	
M8 & 9	House Curtain	<i>Motorised</i>	
C1	House Border (Full Black)	Manual	Blackout curtain
C2	EMPTY	Manual	
C3	Hard Legs	Manual	
C4	EMPTY	Manual	Not for use
M20	LX1	<i>Motorised</i>	
M15	LX2	<i>Motorised</i>	
C5	EMPTY	Manual	Close to LX 2
C6	EMPTY	Manual	For mic lines
C7	EMPTY	Manual	
C8	Border & Soft Legs #1	Manual	
-	Acoustic Shell Ceiling	<i>Motorised</i>	Not in use
M21	LX3	<i>Motorised</i>	
M16	LX4	<i>Motorised</i>	
C9	EMPTY	Manual	Not for use
C10	Border #2	Manual	
C11	Draw Curtains (1 <sup>st</sup> Intermediate)	Manual	
M11	EMPTY	<i>Motorised</i>	Close to LX 5
M17	LX5	<i>Motorised</i>	
C12	EMPTY	Manual	Not for use
C13	Border #3	Manual	
C14	Rear Projection Screen	Manual	
C15	LED Wall	Motorised	On chain hoists
C16	EMPTY	Manual	
C17	Draw Curtains (2 <sup>nd</sup> Intermediate)	Manual	
M18	LX6	<i>Motorised</i>	
C18	EMPTY	Manual	Close to LX6
C19	EMPTY	Manual	
C20	Border #4	Manual	Close to Shell
-	Acoustic Shell Back Panel	<i>Motorised</i>	Not in use
M19	LX7	<i>Motorised</i>	
C21	Border #5 & Soft Legs #2	Manual	
C22	EMPTY	Manual	
M12	LX 8 - CYC LX	<i>Motorised</i>	
C23	EMPTY	Manual	
C24	EMPTY	Manual	
C25	EMPTY	Manual	
C26	Cyclorama	Manual	
C27	Full Black	Manual	
C28	EMPTY	Manual	Close to rear projector

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

Black timber sprung flooring of the following dimensions:

<b><u>Proscenium Opening</u></b>	<b><u>Measurement in metres</u></b>
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 <sup>st</sup> intermediate curtain	6.10
Depth – curtain line to 2 <sup>nd</sup> intermediate curtain	9.10
<b>Height – stage level to tip of:</b>	
Proscenium ceiling	12.10
First border (variable trim)	7.00 ~ 9.00
1 <sup>st</sup> fly gallery	9.90
2 <sup>nd</sup> fly gallery	15.52
Grid	26.72
Wing Spaces in respect to opening:	
Stage left (SL)	9.15
Stage right (SR)	10.22
<b>Apron stage (orchestra pit area)</b>	
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 1 DMX Universe. 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.

#### House Light System

5 stage dimming module for in-house ceiling lighting

#### Power Available

Location: DB at backstage right near doors to Loading Bay

- 01 x 32A TPN

Location: DB at Stage Left behind Cyclorama

- 01 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.***

***For any additional power requirements/ equipment, submission of LEW endorsement and single-line drawing are required.***

***\*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>Watt (W)</u>	<u>Qty</u>
10° <b>ETC</b> Source 4 Profile Spot	750W	10
14° <b>ETC</b> Source 4 Profile Spot	750W	05

**FOH 2:**

10° <b>ETC</b> Source 4 Profile Spot	750W	15
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**Alcove 1 (SL & SR):**

26° <b>ETC</b> Source 4 Profile Spot	750W	12
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**Alcove 2 (SL & SR):**

15/30° <b>ETC</b> Source 4 Zoom Profile Spot	750W	12
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**ONSTAGE**

<u>Overheads:</u>	<u>Watt (W)</u>	<u>Qty</u>
<b>Chauvet</b> Ovation Reve P-3	265W	20
15/30° <b>ETC</b> Source 4 Zoom Profile Spot	750W	34
<b>Robert Juliat</b> Dalis 860	300W	11
50° <b>ETC</b> Source 4 Profile Spot	750W	15
36° <b>ETC</b> Source 4 Profile Spot	750W	10
<b>ROBE</b> Robin Viva CMY*	350W	08
<b>Clay Paky</b> Alpha Profile 700*	700W	06
<b>Clay Paky</b> Alpha 700 Wash Moving Lights*	700W	12

**Side Booms (5 pairs):**

26° <b>ETC</b> Source 4 Profile Spot	750W	40
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**THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)****Additional Lighting Inventory (\*subject to additional rental charges):**

<b><u>Conventional Fixtures</u></b>	<b><u>Watt (W)</u></b>	<b><u>Qty</u></b>
<b>Parcan CP63</b>	1000W	08
<b>19° ETC Source 4 Profile Spot</b>	750W	10
<b><u>DMX Fixtures</u></b>		
<b>Clay Paky Alpha 300 Beam Moving Lights*</b>	300W	08
<b>Clay Paky Alpha 700 Spot HPE*</b>	700W	01
<b>ROBE LEDWash 300X*</b>	200W	06
<b>ROBERT JULIAT Aledin Zoom Spot</b>	130W	13
<b>ROBERT JULIAT Aledin Wash</b>	120W	10
<b>CHAUVET Ovation Reve P-3</b>	265W	10
<b>CHAUVET Ovation CYC 3 FC</b>	370W	05
<b><u>Followspot</u></b>		
<b>ROBERT JULIAT Cyrano HMI Followspot*</b>	2500W	02
<b><u>Others/ Accessories</u></b>		
<b>ETC S4 - 19° Lens</b>	-	08
<b>ETC S4 - 36° Lens</b>	-	07
<b>ETC S4 - 50° Lens</b>	-	09
<b>ETC S4 750W Body</b>	-	05
<b>ETC S4 Iris</b>	-	08
<b>MARTIN Jem ZR35 Smoke Machine*</b>	-	02
<b>Floor Mount</b>	-	20
<b>Gobo Holder Size B</b>	-	1 lot

**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**

<b>ITEM</b>	<b>QTY</b>
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**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
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**Fixed and Stage Portable Foldback and Monitors Loudspeakers**

NEXO P12 Loudspeakers	1 lot
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**Power Amplifiers to power the Loudspeakers System**

NEXO NXAMP4x4 Amplifier with DANTE Connection	1 lot
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**THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)****Wireless Microphones – Installed (\*subject to additional rental charges):**

<b>ITEM</b>	<b>TYPE</b>	<b>QTY</b>
Shure UHF-R Wireless Set*	Handheld (Beta87A) or Wireless Belt Pack (SHURE UR1)	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.

*Note:*

*As part of the venue package, the first 4 microphones are non-chargeable.  
Refer to additional Equipment Rental Rates.*

## **THE REPUBLIC CULTURAL CENTRE – TECHNICAL FACILITIES (THEATRE)**

### **COMMUNICATIONS SYSTEM**

#### **Wired Intercom System:**

Clear-Com 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.

#### **Wireless Intercom System:**

Clear-Com Tempest 2400 Digital Wireless Production Intercom Master Station  
08 x Free-speak II Belt Pack (comes with single muff headsets)

#### **Stage Manager's Desk**

A Stage Manager's work desk is available at Stage Right.

#### **Paging System**

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

#### **Show Relay**

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

#### **Foyer 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 the TV screens located at the stall and circle foyers.

#### **Production CCTV**

IR Cameras are used to capture the production and relay the signals to the TV screens 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)**

<b>Item Description</b>	<b>Qty</b>
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*	70
Wenger Music Stand*	70
Wenger High Stool*	05
Dance Mat (Black/ Grey)*	1 set
Grand Piano* - Kawai SK7	01
Baby Grand Piano* - Yamaha DC2A with Disklavier	01
Upright Piano* - Yamaha U5	01

## 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 Technical Production Department for additional information.***

***The above information is correct as of Apr 2025 and is subject to changes without prior notice.***