

# TIVOLI THEATRE Technical Specifications

## STAGE DIMENSIONS:

Proscenium Width	47'-8"
Proscenium Height	26'-0"
Proscenium to Back Wall	43'-9"
Proscenium to SR Wall	25'-0"
Proscenium to SL Wall	25'-0"
Proscenium to edge of stage at center line	4'-1"
Proscenium to edge of stage at proscenium wall	2'-8"
Crossover depth behind cyclorama	4'-3"

## STAGE RIGGING:

(All seats are double purchase)

Location of operating platform	SR
Height of operating platform	11'-9"
Location of pin rails	SR & SL
Height of pin rails	29'-3"
Pounds of counterweights	100,000
Space between sets	0'-7"
Length of house pipes	63 feet
Inner diameter of house pipes	1.5 inches
Quarter-inch cable lines per set	6
Length of arbors	18 feet
Capacity of arbors	3,400 lbs.
Capacity of pipes	1,700 lbs.
Travel deck to grid	62 feet
Last pipe to back wall	4'-3"
Maximum travel of electrical pipe	40 feet
Available sets when house is stripped except Main Curtain, Teaser & Intermediate Curtain	34
Available sets when using house drapes	25

## DRAPERIES:

Type	Qty.	Hgt.	Wth.	Material	Color
Main Curtain	1	30'	66'	Velour	Red
Main Teaser	1	10'	51'	Velour	Red
Tormentor		30'	16'*	Velour	Red
Borders	2	32'	63'	Velour	Black
	2	12'	63'	Velour	Black
Legs	6	32'	16'*	Velour	Black
Intermediate Curtain	1	30'	66'	Velour	Black
Cyclorama	1	28'	60'	---	Sky Blue

\* May be adjusted

## STAGE FLOOR:

- Height of stage is 3'-4"
- Stage floor is level, not trapped, and has a natural oak finish.
- Sub-floor rests on neoprene pads, making stage resilient and excellent for dance.
- Lag screws may be used, if repaired immediately after performance.
- The Tivoli does not own a portable dance floor.
- Orchestra pit is movable, thus converting to thrust stage.

## IMMOVABLE FLYING PIECES:

Symphony Shell #1	8'-1"
Symphony Shell #2	20'-4"
Symphony Shell #3	34'-4"
Movie Screen	10'-11"

## MISCELLANEOUS:

Dressing Rooms:

Four (4) Star Dressing Rooms with showers

Two (2) Group Dressing Rooms with showers

Washer and Dryer

Upright piano

Acoustical Orchestra Shell

Movie Screen

24' Genie Lift

Rehearsal Hall/Dance Studio (30' x 60')

(With lighted mirrors, can be used as extra group dressing area)

Green Room with kitchenette and half-bath

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## LIGHTING:

Dome lighting to stage at center line	67'-0"
Box booms to stage at center line	45'-0"
Loge to stage at center line	35'-0"
Spot booth to stage at center line	100'-0"
Pit Depth, lowest level	9'-0"
Pit Depth, seating level	3'-4"
Thrust depth to plaster line	13'-0"
Stage depth to plaster line	4'-1"

Electric power supply to the Tivoli is 4 wire, 3 phase, 120 volts.

## TIVOLI LUMINARE SCHEDULE:

Qty.	Type	Lens	Watts
24	Lekolite	10 x 23	1000 (Long 12° = 5°)
20	Lekolite	8 x 13	1000 (Long 20° = 15°)
16	Lekolite	6 x 12	1000 (30°)
16	Lekolite	6 x 9	1000 (40°)
8	Lekolite	4.5 x 6.5	1000
20	Fresnel	6"	750
36	Fresnel	8"	1000
48	Par 64	MFL	1000
9	Scoop	14"	1000
20	Cyclorama		1000
2	Super Trooper		2000 (Xenon)

## LIGHT BOARD: ETC-INSIGHT3

## TIVOLI CIRCUIT LOCATION SCHEDULE:

Number of Circuits	Location
20	Dome Catwalk
10	F.O.H. Boom L
10	F.O.H. Boom R
21	Stage Electric Battens
8	Side Gallery L
8	Side Gallery R
4	Rear Gallery
12	Grid
14	Stage Walls

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## TIVOLI SOUND SYSTEM

### System Description:

The systems provided include a main reinforcement system for the auditorium itself, a monitor page system to distribute signals throughout technical areas and some lobby and dressing room areas, and a 2-channel headset communication system in support of technical personnel.

The main reinforcement system provides for three separate mixing locations. One location is on the main floor and will be used primarily by touring sound companies. The second location is in the balcony area and will commonly be utilized both for touring sound and for the facility-owned mixing console. The third location is in the lighting/sound control booth, Room #408.

Each of the upper locations have permanently mounted connectors and wiring that goes to the main sound equipment Room, #407. This room houses all of the permanent electronics for the systems. The in-house mix location is provided with a connector box which is located in the trough.

The outputs of the mixing console, via squids, feed the patch bay located in the rack in Room #407. The console feeds two limiters that service the central stereo clusters, and one that services the balcony loudspeakers.

### Main House Clusters:

The main cluster is a 3-way stereo system containing subwoofers, lows and mid-highs. The bottom consists of a pair of Intersonics SDL-5 servo-drive (motor driven) subwoofers for extended low frequency response and high output level. The lows on each side are covered by a pair of double fifteen-inch enclosures containing JBL 2225H components. The mids and highs are covered on each side by four Electro-Voice DH1A two-inch exit drivers mounted on two HP9040 and two HP6040 constant directivity horns. These horns are physically and/or electronically aligned for phase coherency. All the components are driven by independent JBL amplifier channels, either stereo or bridged mono mode and designated as such on the front of the amplifier racks.

The stereo full range signal path goes from the console to a pair of DBX 160X's and then to the UREI 5547 one-third octave equalizers. The equalizer outputs are then divided by a pair of Electro-Voice XEQ-3, three-way mono crossovers which contain the time delay circuitry and more importantly, the high frequency constant directivity horn compensation, which is necessary for maintaining flat total acoustic output from the compression drivers. The high frequency outputs to the horns are limited by a separate DBX 160X for each channel in the processing rack #1, after the crossover high frequency outputs, and before the ADD-3 digital delay lines.

### The Balcony System:

The balcony seating area is reinforced on delay lines by twelve 12-inch full-range coaxial speaker enclosures mounted in a line, on the wall above and facing to the rear.

Below the balcony, toward the rear of the seating area and concealed into the ceiling toward the front edge of the balcony and domed area, are eleven more of the same 12-inch coaxial speaker enclosures.

The full range output from the console is split to another DBX 160X compressor/limiter, which feeds another UREI 5547 one-third octave equalizer. This output feeds a pair of Audio Digital ADD-3 delay lines, one for the upper balcony surface mounted enclosures, and one for the identical flush mounted enclosures below the balcony on the main floor. Each pair of these 23 enclosures is powered by its own amplifier channel designated in the equipment rack #4.

In normal operation the relative levels of all of the cluster components and the balcony loudspeakers will remain fixed. The operator will simply locate his console wherever desired and connect the output of the console to the main system.

### SOUND

Midas-Venice 240 sound board  
Clear-Com Head Sets

Microphones:	Qty.
Sennheiser 421	4
AKG C-460B	2
AKG D-12E	2
EV DL77B	3
Shure SM57	3
Shure SM58	4