

The Temple Hoyne Buell Theatre

Venue and Technical Guide



The Temple Hoyne Buell Theatre

The Temple Hoyne Buell Theatre is designed to provide the audience with a first-rate theatrical experience featuring a beautiful glass enclosed lobby, native wildflower murals, Colorado sandstone walls and incredible acoustical enhancements. The Buell is the Denver venue of choice for high-profile, traveling Broadway shows and provides an ideal setting for amplified musicals, dramatic plays, concerts and comedy acts. A versatile venue that can meet the demands of even the most complicated performances, the Buell Theatre consistently rank as a top-grossing theatre for its size nationally.



Seating Capacity: 2,884 Pit Seats: 50 / Orchestra: 1,777 / Mezzanine: 256 / Balcony: 725 / Boxes: 76

Stage: The Proscenium opening is 41' high and 67' wide and measures 52' deep from the curtain line. Side wall to side wall, the stage is 103 feet. The house curtain is guillotine and operated from the deck-stage right.

Trap Room: The trap room underneath the stage is 40' wide by 24' deep. On stage, this area is divided into 4' x 8' sections.

Orchestra Pit: The adjustable orchestra pit is operated by a Gagnon La Forest tubular thrust screw lift. There are two sizes for the Pit, the larger pit measures 13'10" maximum width from the Proscenium and can accommodate up to 110 musicians and is fixed with manually removable Wenger risers. The smaller pit set-up can hold up to 27 musicians. Both arrangements can be set from stage level to 11 feet below the stage level.

Counter Weight System: The Buell Theatre is equipped with 90 line sets on six-inch centers. Each arbor measures 12 feet in length and the capacity per arbor is 1,500 pounds. The system has two locking rails, one at stage level and the other at the jump level. The pipe has travel is 69 feet and the grid is 70 feet above stage deck. The last working line feet is 48' from the plaster line. The length of the house pipes is 63'6"; with extensions, they are 79'9".

Stage Door: The Buell Stage Door entrance is located at 1345 Champa Street.

Loading Dock/Doors: There are two locations for loading and unloading trucks. There are two, 2 semi-truck capable docks located on Champa Street between 13th and 14th Streets. In addition, a large roll-

up door off 13th Street may be used for load in/out however there is no dock at this location so you will need to load/unload using ramps or a fork-lift.

Dressing Rooms: Each Dressing Room/Office is equipped with plenty of lighting and mirrors. There are two “Star” dressing rooms located Stage Right with the Conductors office located adjacent to the Orchestra Pit. In addition there are six (6) “Principal” dressing rooms. The Stage Manager and Company Manager each have offices on this level. There is also a large “Hair and Makeup” room located Stage Right just beyond the elevators. Stage Managers can access the backstage PA system directly from their office. The performance as well as any announcements can be heard from any location backstage including the dressing rooms.

Street Level has four “Chorus” dressing rooms, two which can comfortably accommodate 8 people, one that can accommodate 16 people and another that can accommodate 24 people. In addition there is a large Wardrobe/Laundry room. All Dressing Rooms mentioned have restroom and shower facilities. The Stage Manager, Company Manager and Wardrobe Rooms have restrooms conveniently located nearby.



Power: House Power Consist of:

- 6 3 Phase 400 Amp Service – 3 located on Stage Left and 3 located on the fly over Stage Left.
- 2 3 Phase 400 Amp Service located Up Stage Right.
- 1 3 Phase 200 Amp Service in trap room (sound)
- 1 3 Phase 400 Amp Service located Down Stage Left (intended for sound)

Front Of House Light Positions:

<u>Position</u>	<u>Pipe Length</u>	<u>Distance to Prosc.</u>	<u>#of House Circuit</u>
1st Balcony Rail	104'	84'	35
2 nd Balcony Rail	80'	73'	35
1 st Cove Rail	63'	61'	36
2 nd Cove Rail	100'	94'	36

The House lighting control board is a Strand 300. It can easily interface with other controls. Contract the Theatres & Arenas Management for specific instructions for interfacing controls.

Spot Booth: Located in the Balcony 125 feet from the stage. There are four (4) Gladiator II 2.5K spotlights in the booth.

Equipment: 3 Washer/Dryers – Located in the Wardrobe Room on Street Level This room also has a laundry sink.

Kenmore Washers feature water level and temperature adjustment and rinse and speed options.

Kenmore Dryers feature timed dry cycle and fabric temperature options.

Machines are NOT coin operated.

60 Music Stands

85 Chairs for Pit

Black Carpet available for Orchestra Pit

3 adjustable bass stools

Piano Rental:	Day #1	Succeeding Days
Steinway Baby Grand	\$250	\$75
Yamaha Upright	\$150	\$50

Note: Tuning is required and is at the cost of the promoter

The Buell Theatre Sound System: The new house sound system is an L-Acoustics Kudo which is a new generation of line source array offering far more flexibility and possibilities than any other system to date, this sound system, in conjunction with excellent acoustics, has the flexibility and power to handle any job. A motorized soft banner system makes it possible to create a variety of acoustic qualities.

The 2 House mix positions are; 1) center of Orchestra level (house right of center) or 2) rear of Orchestra level (center).

FOH Processing:

1 – Yamaha PM 3500

4 – Mons and 8 matrix outputs

2 – Klark Teknik DN 3600CB equalizers

2 – Beringer (Composer) MDX 2100 Expander/Gate, Compressor, Limiter

1 – Lexicon PCM 80

1 - Klark Teknik DN 60 RTA, with mic

1 – Denon DN 650 CD player (wired remote available)

Speaker Systems

18 – 3-Way Array Kudo Main Speakers – 9 per side, L/R System

2 – L-Acoustic Kudo Stacking Bumper

6 – L-Acoustic SB28, 2x18” Subwoofer Element – 3 per side

8 – L-Acoustic LA8 4x2000w Controller – Mains

4 – L-Acoustic 8XT Two-Way Passive Coaxial – Front Fills

1 – L-Acoustic LA4 4x1000w/4 OHMS Controller drives the Front Fills

2 – L-Acoustic 108P 8” Powered Coaxial Loud Speaker FOH Monitors

Amplifiers/ System Processing

All systems are controlled by Sound Web

All house system amplifiers are Crown Macrotech 1200’s

All delays are ADD-3’s, all EQ’s are JBL (cut only) 1/3 oct.

System Wiring

The Buell Theatre has extensive patching capabilities. There are 2 different patching locations including 4-tie lines, 4-intercom channels, microphone ties (each panel has a different number of lines) and speaker tie

lines with Neutrik NL-4 connectors. Many of the panels have BNC connectors for patching video around the building.

Stage Managers office has a built-in bundle with 2-video lines and 3-audio lines. These lines terminate downstage right.

Spot booth ties consist of 4-intercom lines, 2 mic lines and 2 line ties. These lines can terminate almost anywhere.

System Power

- 1) FOR 2 – 20A circuits (Edison connectors)
- 2) Stage Left/Center/Right and Orchestra Pit: - 2 – 20 amp circuits

Road Show Power

There is a 400A (isolated ground) disconnect located down stage left for sound power. This disconnect is supplied with female posi-cam lock tails.

Backstage System

The Backstage system may be fed show program from the console, two microphones permanently hung over the auditorium and or tie lines. There are also inputs for backstage paging and program which can be picked up almost anywhere.

Equipment

- 1 – TOA M900MK2 Mixer
- 1 Channel Beringer MDX 2100 expander/gate, compressor, limiter
- 1 Channel Rane ME1 5, 15 band equalizer
- 1 – Crown CT-200 Amplifier
- *Backstage speakers cover all rooms and hallways on all levels.

Lobby System

The lobby system may be fed show program from the console, two microphones permanently hung over the auditorium and or tie lines.

There is also an input for lobby paging located in the lobby. The lobby system includes electronic chimes and connection to Digital Music Express.

Equipment

- 1 – TOA M900NM Mixer
- 1 Channel Beringer MDX 2100 expander /gate, compressor, limiter

Equipment Continued

- 1 Channel Rane ME1 5, 15 band equalizer
- 1 Crown CT-200 amplifier
- *Lobby Speaker coverage entails all levels

Hearing Impaired System

The hearing impaired system may be fed show program from the console, two microphones permanently hung over the auditorium and or tie lines. There is also input for mixing in an audio describer.

Senheiser HDI 10 19-6 infrared headsets

Senheiser SI 10 19 A, 2 channel infrared transmitter

Rane Flex System: FPM 44 program mixer, FPL 44 program limiter

FME 15 graphic equalizer (2)

Internal Video System

- 1- FOH color video camera mounted on the balcony rail

- 3-Color video monitors located in the lobby with lobby audio feed
- 4-Internal video lines, passive split, BNC connectors located FOH mix position, stage left/right, Orchestra pit and trap room

House Communications System

- 1- Clear-com MS-400, 4 channel main station
- 1- Clear-com RM 220, 2 channel remote station (in the FOH processing rack)
- 6- Clear-com RS-501, single channel belt packs, with various Clear-com headsets
- 3- Clear-com KB-100, single channel biscuits, one on each level of the fly system

Hard wired communication lines are located almost everywhere in the building.

Microphones/Stands & Cable

- Shure SM-58
- Shure Beta-58
- Shure Beta-57
- Shure Beta-87

The Buell Theatre has a selection of AKG mic stands, mic cable and Wireworks sub snake Boxes to support the microphone listed above.

The Denver Performing Arts Complex also has an excellent selection of professional microphones, stands, processing equipment and mic cables, etc. Please see list below.

Not all of these items will be available all of the time. Availability is based on the needs of the entire complex. Please contact the head soundman of the Buell Theatre for availability.

- 4 – Senheiser MD441 4 - Senheiser MD421
- 4 - Senheiser MD409 4 – AKG C-300/Ck-91
- 2 - AKG CK-93 (capsule only)
- 5 - AKG C-747 2 – AKG C-414
- 2 – AKG C-408 2 – AKG C-3000
- 2 – AKG C-451 3 – Shure SM-91
- 4 – Beyer M88 5 – Crown PCC 160
- 4 – Crown PZM GPB 1 – C-ducer tape
- 2 – Audio Technica AT857QMa
- 3 – BSS AR-1 16 DI 6 – GRM Missing Link TX – I DI's

Misc. Equipment

- 1 – Panasonic SV-3700 DAT
- 1 – Tascam 122 MKIJ cassette deck
- 1 – Marantz CD recorder

Movie Screen

The Buell Theatre has a movie screen available for rent.

The screen frame measures 26' x 58' with a screen size of 25' x 57'

Please contact Theatres & Arenas Management for rental information and cost.