

Technical Information for

Power Center for the Performing Arts

Version current as of November 2024

VENUE ADDRESS

121 N. Fletcher Street
Ann Arbor, MI 48109-2017

MAILING ADDRESS

University Productions
128 Michigan League
911 N. University Ave.
Ann Arbor, MI 48109-1265

AUDITORIUM SEATING CAPACITY

Orchestra 834
Orchestra wheelchair spaces 12
Orchestra companion seats 12
Balcony 455

Total capacity (including accessible seating) 1313

LOAD-IN ACCESS

Access to loading dock is at 1200 Palmer Drive

Loading Dock Doors 18' x 12'

Note - Two trucks can be parked at the dock for loading/unloading.

STAGE SPECIFICATIONS

Proscenium arch width 55'-3 $\frac{3}{4}$ "

Proscenium arch height 28'

Depth of stage 42' (from plaster line to back wall) Depth of apron 2' (front of stage to plaster line) Off stage dimensions 18' (stage right)

22'-3" (stage left)

Dimensions of orchestra pit 31' x 8'

Note - Orchestra pit is a hydraulic lift to stage level with four stops - stage level, house level, 7' - 8" below house level (pit level), 14' below house level (storage room level)

Stage floor - Masonite painted black on tongue-and-groove pine resting on sleepers.

RIGGING

Single purchase manual counterweight system

Number of line sets 65

Height of grid from stage floor 80'

Height of SR pin rail from stage floor 40'

Highest batten can be flown 75'

Lowest batten can be flown 3'

Distance from back wall to last set 11'-6"

Typical pipe length 60' Pipes A, B, C, 17 and 35 are shorter. See Lineset schedule.

Arbor Information Total length 8'

Loading clearance 1'

Usable length 7'

Full weight - 25 lbs, 2½" tall

1/2 weight - 12½ lbs, 1" tall

Arbor capacity 975 lbs (39 full weights)

Note - loading gallery located on SR

SOFT GOODS

House Curtain - manual, flies out, does not open center, follows apron, gold-checked color House Masking Hang (all draperies are black velour unless otherwise noted) One

(1) Teaser 60' x 25'

One (1) White Muslin "bounce" drop 60' x 38'

One (1) Rosco RP screen "Twin White" 60' x 39'

One (1) Border/Blackout 60' x 30'

Four (4) Borders 60' x 15'

Four (4) Legs 12' x 40'

Six (6) Legs 17' x 40'

One (1) Traveler track

Two (2) Traveler panels 25' x 40' hung with two (2) tabs 4'-3"w x 40'8"h

Four (4) Traveler panels 32' x 30' (dead hung and cannot move) Additional drapery

One (1) Scrim, white sharkstooth 60' x 30'

Two (2) Scrim, black sharkstooth 50' x 28'

Two (2) Orchestra pit drapes (one full length velour, one short Duvetine) Eight (8)

Tabs 6' x 30'

Four (4) Tabs 9' x 30'

Two (2) Legs 15' x 40'

Eight (8) Legs 17'-9" x 30'

Two (2) Traveler Panels 31'-3" x 30'

One (1) Border 50' x 15'

One (1) Border (for House Curtain) 70' x 7'-5"

One (1) Border (for Lineset A) 41' x 15'

COMPANY SWITCHES

110/208v 3 phase 5 wire - Two (2) 400 amp disconnects on USR Wall

Note - Access to this power is ONLY via 400 amp locking Cam Locks

Four (4) 60 amp 208v NEMA 14-60 circuits on USR Wall

Isolated Audio Power on DSL Wall

- Three (3) 30 amp 120v L21-30 circuits
- Four (4) 20 amp 120v duplex edison circuits
- One (1) 30 amp 110v single phase twist lock circuit

LIGHTING SYSTEM

Lighting Control

- One (1) ETC EOS Ti w/ three (3) touch screen displays, in lighting booth
- One (1) ETC Nomad Puck w/ two (2) touch screen displays
- One (1) iPad Mini with ETC iRFR app

ETC Net3 ports located throughout the hall

Dimmers:

- Four hundred seventy-two (472) ETC 2.4kW Sensor dimmers
- Four (4) ETC 6kW Sensor dimmers
- House lights controlled through ETC Paradigm System
- Note - See circuit chart for more information on dimmers and house 208v moving light power*

Front of House Repertory Hang

- #2 Ring Twenty Eight (28) ETC Source Four 10° 575w
 - Fourteen (14) ETC Source Four 5° 575w
 - Three (3) Lycian Xenon Followspots, model 1290

- #1 Ring Forty-Two (42) ETC Source Four 10° 575w Two (2) PAR 64 1kW as work lights

- #0 Ring Two (2) ETC Source Four 19° 575w

Stage Left Box Boom Ten (10) ETC Source Four 14° 575w

Stage Right Box Boom Ten (10) ETC Source Four 14° 575w

Stage Left Pro-Torm Six (6) ETC Source Four Zoom 15° - 30° 575w with half hats *Top unit at +26' with 2' spacings down*

Stage Right Pro-Torm Six (6) ETC Source Four Zoom 15° - 30° 575w with half hats *Top unit at +26' with 2' spacings down*

Additional Lighting Inventory

Sixty-Eight (68) ETC Source Four LED Lustr 2 Engines

Fifty-Eight (58) Shutter assemblies for ETC Source Four LEDs
Twenty (20) Cyc attachments for ETC Source Four LED
Two hundred fifteen (215) ETC Source Four 575w Bodies w/ shutter assemblies
Six (6) ETC Source Four 5° Lens Tubes
Ten (10) ETC Source Four 10° Lens Tubes
Seventy-five (75) ETC Source Four 19° Lens Tubes
One Hundred Nine (109) ETC Source Four 26° Lens Tubes
Fifty-Eight (58) ETC Source Four 36° Lens Tubes
Fifteen (15) ETC Source Four 50° Lens Tubes
Forty (40) ETC Desire D60 LED Lustr+
Forty-Four (44) ETC Source Four PAR 575w (VNSP, NSP, MFL, WFL lenses available)
Forty (40) Altman PAR 64 (VNSP, MFL, WFL lamps available)
Ten (10) MR-16 L&E striplights 3 circuit/5 pairs lamps, 6' long, EYC and EYF available
Four (4) LE Mini 10 units 1K

Accessories

Seventeen (17) Source Four iris units
Forty-Five (45) Source Four top hats
Sixty (60) Source Four color extenders
Template holders (Source 4, Altman, Great American)
Misc. PowerCon cables for LED instruments

SOUND SYSTEM

Console

One (1) 16 channel mixing board, Midas F26 (in booth)
One (1) 16 channel mixing board, Behringer X32 Producer (portable)

Playback

One (1) compact disc, Tascam CD-401 mkII (in road case)

Processing

Four (4) Crest CC301 amps (outputs to speaker patch bay)
Four (4) Rane GE-60 graphic EQ's (normalised to Rane EQ's)
One (1) patch bay w/28 patch cords
One (1) headset, stereo

Speakers

One (1) EV DeltaMax 1152/1122 speaker cluster
(permanently mounted above stage center at proscenium)
Four (4) Electro-Voice DeltaMax 1122A
Eight (8) EV Sentry IIA
Six (6) 50' speaker cables (Speakon connectors)

Fifteen (15) 25' speaker cables (Speakon connectors)
 Fifteen (15) 10' speaker cables (Speakon connectors)
 One (1) audio snake, 100' long 8 x 4 channels

Monitor

One (1) booth program monitor
 One (1) Crest CC301 amps
 Two (2) JBL Control 3 speakers (mounted on wall in booth)

Microphones

Two (2) portable wireless microphone racks
 Total of four (4) wireless channels - only four (4) transmitters can be used at once
 Each contains (1) Shure Dual UHF-R Receiver
 Each contains two (2) Shure UR2/SM58 and two (2) Shure UR1 transmitters w/ lapel mic
 Four (4) AKG 451 condensers, w/shotgun capsule
 Two (2) Shure SM58
 Two (2) Shure SM58 w/on-off switch
 Three (3) 18" gooseneck microphone stands

Microphone jack outlets

	<i>Location</i>
<i>Mic line # 8 - 11</i>	Proscenium wall SR
12 - 15	Proscenium wall SL
16 - 17	USR wall
18 - 19	USL wall
20 - 23	Patch Panel SR
24 - 27	#0 Ring
28 - 30	#1 Ring center
31 - 32	#2 Ring HL of followspot booth
33 - 34	#2 Ring HR of followspot booth
35	Light Booth

Speaker outlets

Speaker Line # Location
 Left & Right Program proscenium wall SR
 1 stage lip SR
 2 stage lip SL
 3, 5, 7 proscenium wall SR
 4, 6, 8 proscenium wall SL

9 & 11 USR (up stage right)
10 & 12 USL (up stage left)
13 rear of orchestra HL (sec. 5)
14 rear of orchestra HR (sec. 1)
15 rear of balcony ceiling HL (sec. 6)
16 rear of balcony ceiling HR (sec. 8)
17 rear of orchestra HL (sec. 4)
18 rear of orchestra HR (sec. 2)
19 rear of balcony ceiling HL (sec. 9)
20 rear of balcony ceiling HR (sec. 7)
21 - 22 #0 ring
23 - 26 #1 ring center
27 - 28, 31 #2 ring HL of followspot booth
29 - 30, 32 #2 ring HR of followspot booth
33 light booth
34 spare
35 lobby floor HL
36 lobby floor HR
37 - 38 cluster amp rack
39 vomitory entrance HL
40 vomitory entrance HR
41 - 42 sound booth rack

Miscellaneous Audio Equipment

Fifteen (15) 25' speaker cables (Speakon connectors)
Fifteen (15) 10' speaker cables (Speakon connectors)
One (1) audio snake, 100' long 8 x 4 channels
Four (4) microphone stands, desk
Twelve (12) microphone stands, floor round base
Two (2) microphone stands, boom attachments
Twenty-Five (25) Microphone cables

COMMUNICATION SYSTEMS

Headset System

Ten (10) Beyer DT-108 single muff headsets, 15 Telex
Three (3) Clear-Com KB-112 squawk box
Fifteen (15) Clear-Com RS-501 single channel belt packs
Five (5) Clear-Com RS-502 double channel belt packs
Ten (10) Freespeak II wireless belt packs
Sufficient headset cable for most applications.

Intercom

One (1) dressing room monitor system w/ dressing room page

Video

Three (3) cameras - Two (2) color, fixed in booth, One (1) color portable for conductor use Two (2) 9" color monitors available for stage manager SR

One (1) 17" color monitor available for stage manager SR

One (1) 32" mobile color flat screen monitor

Miscellaneous black/white small monitors available

One (1) 32" color monitor in trap room with stage view

Four (4) color monitors for late seating

two (2) on orchestra level outside lobby doors HR & HL

two (2) on balcony level HR & HL above doors on bridge

Information System

Wired - Ethernet 10 and 100 Base-T – Jacks are located throughout building (stage and lobby) and may be used by arrangement in advance. All wired network circuits are protected by the SMTD firewall, part of the University of Michigan's Virtual Firewall. *Please verify in advance that what you need is available by contacting Alex Gayat 734-763-4220 or alexgay@umich.edu.*

Wireless - U-M Wireless on-stage and in the auditorium, lobby and dressing rooms. Please refer to <http://www.itcom.itd.umich.edu/wireless/> for information regarding access.

DRESSING ROOMS

Washer and Dryer (2 each) located in trap room. All dressing room access USR.

One Flight Above Stage Level:

Two (2) Dressing Rooms - Each with seating and mirrors for four (4) performers with toilet, basin and shower.

Stage Level:

One Dressing Room - With seating and mirrors for four (4) performers with toilet, basin and shower.

One Dressing Room - ADA compliant with accessible lavatory and roll in shower for two performers.

One Flight Below Stage Level:

Small Ensemble Room - seating and mirrors for 14 performers, showers, basins, and toilets.

Large Ensemble Room - seating and mirrors for 24 performers, showers, basins, and toilets.

Note - The wall between ensemble rooms is removable to make one large space.

REMOVABLE SEATING

Note: Rows A, B, and C are available on request. Default setting is removed.

Section 1

Row Seats Note

D 1, 2

E 1, 3, 2

Section 2

Row Seats Note

B 1, 3, 2 Orch/HR Vom

C 1, 3, 4, 2 Orch/HR Vom

D & E 1, 3, 5 HR Vom

F 1, 3, 5, 7 HR Vom

F 2, 4, 6

G & H 1, 3, 5, 7 HR Vom

J, K & L 1, 3, 5 HR Vom

U & V 2, 4, 6 Sound pulls

U & V 8, 10, 12 Sound pulls

W 2, 4 Sound pulls

Section 3

Row Seats Note

A 1, 3, 4, 2 Orch pit

B 1, 3, 5 Orch pit

B 2, 4 Orch pit

C 1, 3, 5 Orch pit

C 2, 4, 6 Orch pit

D & E 1, 3

D & E 5, 7, 6

D & E 2, 4

F 1, 3, 5, 7

F 2, 4, 6, 8

Section 4

Row Seats Note

B 1, 3, 2 Orch/HL Vom

C 1, 3, 4, 2 Orch/HL Vom

D 2, 4 HL Vom

E 2, 4, 6 HL Vom

F 1, 3, 5

F, G & H 2, 4, 6, 8 HL Vom

J, K & L 2, 4, 6 HL Vom

Section 5

Row Seats Note

D 1, 2

E 1, 3, 2

CONFERENCE/LOBBY/BACKLINE EQUIPMENT

Tables:

Three (3) 2'-7" x 6' Tables
Three (3) 1'-6" x 6' Tables
Two (2) 2' x 5' Tables
Three (3) 2'-6" x 4' Tables
Two (2) 13' royal blue table skirts
Two (2) 21' royal blue table skirts

Orchestra Pit:

Sixty (60) music stands
Sixty (60) music stand lights
One (1) conductor's stand
Sixty (60) black Wenger orchestra chairs
Fifteen (15) bent plywood chairs

Ladders:

One (1) 8' Step ladder
One (1) 10' Step ladder
One (1) 12' Step ladder
One (1) 16' Step ladder
One (1) Genie personnel lift (max. platform height 30' - requires current lift certification for use)
One (1) JLG personnel lift (max. platform height 36' - requires current lift certification for use)

Miscellaneous Equipment

One (1) 9' x 16' front or rear projection screen with bottom skirt
can be reconfigured to 10.5' x 14'
Fifteen (15) Loose hemp lines, 5/8"
One (1) hoist, 1/2 ton, electric
One (1) one-ton CM chain motor w/60' chain
One (1) bull winch
Three (3) hand trucks
One (1) upright grand Yamaha piano with bench (Additional charge for moving and tuning)
Three (3) costume racks
Two (2) 30" x 6' prop tables
One (1) 24" paper cutter

- One (1) United States flag with pole & floor stand
- One (1) State of Michigan flag with pole & floor stand
- One (1) University of Michigan seal (for officially sanctioned events)

HOUSE LINE SET SCHEDULE:

Line Set # Distance from Plaster House Hang Notes
C 0'-3" 16'-1" long
B 1'-5" 29'-0" long
A 2'-8" 41'-0" long

House Curtain 2'-3" House Main Curtain (Follows proscenium curve)

Dead Hung 3'-2" Dead hung torm panels w/black velour

Dead Hung 3'-6" Dead hung traveler track w/pleated black velour

- 1 4'-4" Teaser
- 2 5'-2"
- 3 6'-2" #1 Electric Dimmers 205-216
- 4 7'-6" #2 Electric Dimmers 217-228
- 5 8'-0" Boom Cable X/O Dimmers 229-234
- 6 8'-6" #3 Electric D60s. Relay 391
- 7 9'-0"
- 8 9'-6" #1 Border
- 9 10'-0" #1 Legs
- 10 10'-6"
- 11 11'-0"
- 12 11'-6" #4 Electric Dimmers 253-264
- 13 12'-0"
- 14 12'-6" Boom Cable X/O Dimmers 265-270
- 15 13'-0" #5 Electric Dimmers 277-288
- 16 13'-6"
- 17 14'-0" 58'-1" long batten
- 18 15'-0" #6 Electric D60s. Relay 392
- 19 15'-6"
- 20 16'-0" #2 Border/Blackout
- 21 16'-6" #2 Legs
- 22 17'-0"
- 23 17'-6"
- 24 18'-0" Boom Cable X/O Dimmers 301-306
- 25 18'-6" #7 Electric Dimmers 313-324
- 26 19'-0"
- 27 19'-6"
- 28 20'-0"

HOUSE LINE SET SCHEDULE (CONTINUED)

Line Set # Distance from Plaster House Hang Notes

29 20'-6"
30 21'-1"
31 21'-6" #3 Border
32 22'-0" #3 Legs
33 22'-6"
34 23'-0" #8 Electric D60s. Relay 393
35 23'-6" 58'-0" long batten

36 24'-0" #9 Electric Dimmers 337-348
37 24'-6"
38 25'-10" Boom Cable X/O Dimmers 349-354
39 26'-6"
40 27'-0" #4 Border
41 27'-6" #4 Legs
42 28'-0"
43 28'-6"
44 29'-0"
45 29'-6" #10 Electric D60s. Relay 394
46 30'-0"
47 30'-6"
48 31'-0" Black traveler 49'-11" track
49 31'-6"
50 32'-0"
51 32'-6" #5 Border
52 33'-0"
53 33'-6"
54 34'-0" #5 Legs
55 34'-6"
56 35'-0" Rosco RP screen
57 35'-6"
58 37'-0"
59 37'-6"
60 38'-0"
61 38'-5" Muslin bounce drop
62 38'-11" Blackout Drape