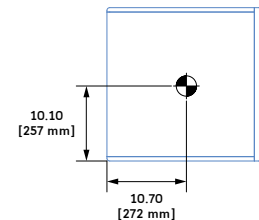
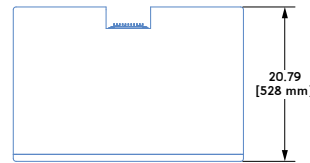
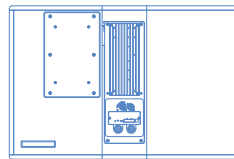
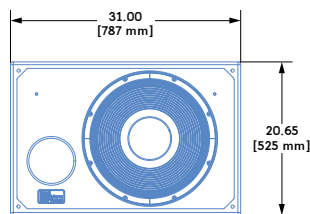


X-400C : Compact Cinema Subwoofer



- Dimensions** 31.00" w x 20.65" h x 20.79" d (787 mm x 525 mm x 528 mm)
- Weight** 85 lbs (38.6 kg)
- Enclosure** Premium birch plywood
- Finish** Low-gloss, black textured
- Protective Grille** Optional grille frame with black cloth



Part of Meyer Sound's EXP cinema series, the X-400C compact subwoofer boosts low-frequency headroom in cinema applications and other fixed installations. The linear, self-powered X-400C offers similar sonic characteristics as the X-800C subwoofer — low-frequencies down to 20 Hz, clean, punchy transients, and excellent phase coherence — though in a more compact cabinet that can be installed singly or as multiple units.

The X-400C is comprised of a single 18-inch low-frequency, long-excursion cone driver

housed in an optimally tuned, vented cabinet and powered by a single-channel amplifier. Onboard processing includes driver protection circuitry, low-pass filtering, and correction filters for flat phase and frequency responses.

The IntelligentAC™ power supply affords automatic voltage selection, EMI filtering, soft current turn-on, and surge suppression.

The X-400C integrates seamlessly with other EXP cinema loudspeakers, including the Acheron screen channel loudspeakers and HMS

surround loudspeakers.

Meyer Sound's optional RMS™ remote monitoring system provides comprehensive monitoring of system parameters on a Mac® or Windows®-based computer.

The X-400C cabinet is constructed of premium birch plywood and coated with a low-gloss, black-textured finish. The cabinet includes attachment points for an optional grille frame with black cloth.

FEATURES & BENEFITS

APPLICATIONS

- | | | |
|--|---|--|
| <ul style="list-style-type: none"> ○ High peak power output with excellent transient reproduction ○ Extended low frequency range down to 20 Hz ○ Extremely low distortion for exceptional low-frequency clarity | <ul style="list-style-type: none"> ○ Flat amplitude and phase responses for tonal accuracy ○ Integrates with Acheron Studio and Acheron Designer screen channel loudspeakers ○ Integrates with HMS-5, HMS-10, and HMS-12 surround loudspeakers | <ul style="list-style-type: none"> ○ Sound design suites ○ Small theatres and custom, private theatres ○ Screening rooms ○ Mixing for postproduction facilities ○ Immersive surround applications |
|--|---|--|

X-400C SPECIFICATIONS

| | |
|-------------------------------|--|
| ACOUSTICAL | <p>Operating Frequency Range¹ 20 Hz – 200 Hz Frequency Response² 23 Hz – 160 Hz ±4 dB Phase Response 32 Hz – 175 Hz ±30° Maximum Peak SPL³ 130 dB Dynamic Range >110 dB</p> |
| COVERAGE | Varies with number of units and configuration |
| TRANSDUCER | <p>Low Frequency One 18" long-excursion cone driver Nominal impedance: 4 Ω</p> |
| AUDIO INPUT | <p>Type Differential, electronically balanced Maximum Common Mode Range ±15 V DC, clamped to earth for voltage transient protection Connectors XLR 3-pin female input with XLR 3-pin male loop output Input Impedance 10 kΩ differential between pins 2 and 3 Wiring Pin 1: Chassis/earth through 220 kΩ, 1000 pF, 15 V clamped network to provide virtual ground lift at audio frequencies Pin 2: Signal + Pin 3: Signal – Case: Earth ground and chassis DC Blocking Differential DC blocking up to the maximum common mode voltage CMRR >50 dB, typically 80 dB (50 Hz – 500 Hz) RF Filter Common mode: 425 kHz; Differential mode: 142 kHz TIM Filter Integral to signal processing (<80 kHz) Nominal Input Sensitivity 0 dBV (1.0 V rms, 1.4 V peak) continuous is typically the onset of limiting for noise and music Input Level Audio source must be capable of producing +20 dBV (10 V rms, 14 V peak) into 600 Ω to produce the maximum peak SPL over the operating bandwidth of the loudspeaker</p> |
| AMPLIFIER | <p>Type Single channel Output Power⁴ 450 W Total Output 900 W peak THD, IM, TIM <.02% Load 4 Ω Cooling Convection</p> |
| AC POWER | <p>Connector powerCON 20 with loop output Voltage Selection Automatic, continuous range from 90–265 V AC Safety Agency Rated Operating Range 100–240 V AC, 50/60 Hz Turn-on and Turn-off Points 90 V AC on, no turn-off, only fuse-protect above 265 V AC Current Draw: Idle Current 0.26 A rms (115 V AC); 0.16 A rms (230 V AC); 0.30 A rms (100 V AC) Maximum Long-Term Continuous Current (>10 sec) 1.4 A rms (115 V AC); 0.7 A rms (230 V AC); 1.6 A rms (100 V AC) Burst Current (<1 sec)⁵ 2.7 A rms (115 V AC); 1.1 A rms (230 V AC); 3.0 A rms (100 V AC) Maximum Instantaneous Peak Current 9 A peak (115 V AC); 6 A peak (230 V AC); 10 A peak (100 V AC) Inrush Current 10 A peak (115 V AC); 8 A peak (230 V AC); 10 A peak (100 V AC)</p> |
| RMS NETWORK (OPTIONAL) | Equipped with two-conductor twisted-pair network, reporting amplifier operating parameters to host computer |

NOTES:

1. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
2. Free field measured with 1/3-octave frequency resolution at 4 meters.
3. Measured with music referred to 1 meter, half-space loading.
4. Amplifier wattage rating based on the maximum unclipped burst sine-wave rms voltage the amplifier will produce into the nominal load impedance: 42 V rms (60 V peak) into 4 ohms.
5. AC power cabling must be of sufficient gauge so that under burst current rms conditions, cable transmission losses do not cause the loudspeaker's voltage to drop below the specified operating range.



X-400C — 04.213.022.01 A

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ARCHITECT SPECIFICATIONS

The loudspeaker shall be a self-powered, sub-bass system with a single 18-inch low-frequency, long-excursion cone driver.

The loudspeaker shall incorporate internal processing electronics and a single-channel amplifier. Burst power shall be 450 watts (900 watts peak) with a nominal 4-ohm resistive load. Distortion (THD, IM, TIM) shall not exceed 0.02 percent. The audio input shall be electronically balanced with a 10 kΩ impedance and accept a nominal 0 dBV (1 V rms) signal (20 dBV to produce maximum SPL). Connectors shall be XLR 3-pin male and female. RF filtering shall be provided, and CMRR shall be greater than 50 dB (50 Hz – 500 Hz).

Performance specifications for a typical production unit shall be as follows, measured at 1/3-octave resolution: operating frequency range, 20 Hz to 200 Hz; phase response, 32 Hz to 175 Hz ±30 degrees; maximum peak SPL, 130 dB at 1 meter.

The internal power supply shall perform automatic voltage selection, EMI filtering, soft current turn-on, and surge suppression. Power requirements shall be nominal 100 V, 110 V or 230 V AC line current at 50 or 60 Hz. UL and CE operating voltage ranges shall be 200 to 240 V AC. The maximum long-term continuous current draw (>10 sec) shall be 1.4 A rms at 115 V AC, 0.7 A rms at 230 V AC, and 1.6 A rms at 100 V AC. Current

inrush during soft turn-on shall not exceed 10 A peak at 115 V AC, 8 A peak at 230 V AC, and 10 A peak at 110 V AC. AC power connectors shall be powerCON 20 with loop output. The loudspeaker shall optionally include an RMS remote monitoring system module.

Loudspeaker components shall be mounted in a premium birch plywood enclosure with a low-gloss, black-textured finish. Dimensions shall be 31.00 inches wide x 20.65 inches high x 20.79 inches deep (787 mm x 525 mm x 528 mm). Weight shall be 85 lbs (38.6 kg).

The loudspeaker shall be the Meyer Sound X-400C.