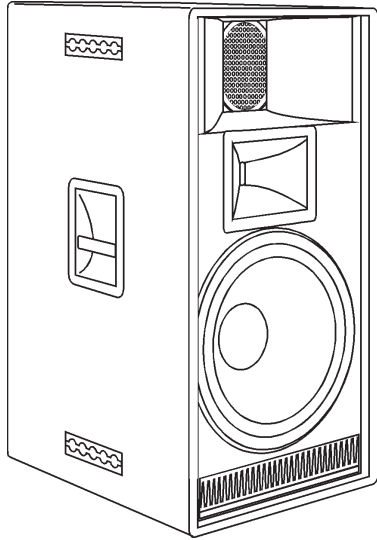


SPL 30

INTEGRATED SELF POWERED
ACTIVE THREE WAY SPEAKER
SYSTEM



ABOUT THE SPL 30

The ARX SPL 30 is a compact integrated active 3-way speaker and amplifier combination.

Low frequencies are reproduced by a 15" (380mm) reflex loaded Low frequency driver; Mid Frequencies by a horn loaded 8" (200mm) mid driver; and High frequencies with a *Ferro-Cooled** 2" throat compression driver coupled to a 60° x 40° horn.

The three onboard amplifiers are controlled by a 24dB per octave active crossover plus our transparent ISC system protection.

The all plywood trapezoidal cabinet features a heavy duty steel mesh protective grille, and is finished in multiple textured coats of catalysed polyurethane. Steel handles are provided for easy cabinet handling.

It is supplied 'ready-to-work', with flying track and rear angling points fitted as standard.

INSIDE INFORMATION

The amplifiers inside the SPL 30 use existing proven analog amplifier technology for predictable operation in all professional applications.

Its transformer based power supply and Mosfet drive circuitry both enable a reduced parts count for long term reliability. Plus, with their inherent self regulation, Mosfets are accepted as being the most thermally reliable and predictable amplifier output stage currently available.

The SPL 30's unique amplifier heat exchanger provides reliable, consist-

Applications:

- Concert Sound Reinforcement
- Auditorium Installations
- Dance Clubs
- Houses of Worship
- Theatre and Film
- Corporate A/V

Features:

- Fully integrated active 3 way amplifier/speaker combination
- High power and low distortion provide true sonic accuracy
- Incorporates ISC system protection
- Easy, flexible setup - just connect a signal and AC power

ent heat dispersion even at maximum SPL.

On power-up, the SPL 30 system provides an initial flat response. All equalizing is intended to be done from the audio source - typically a post-console parametric or graphic EQ.

BENEFITS

The acoustic and practical benefits of the SPL 30's amplifier/speaker combination are many:

- Improved speaker response. The closely coupled design delivers greater actual power at the speaker and improves the damping factor. Frequency response is optimised and phase response is idealised with no potential for mis-adjustment
- Thermal reliability. Our temperature management system comes from ultra-reliable mission-critical computer systems with extended MTBF criteria.
- There is no power loss caused by long runs of loudspeaker cable. All the amplifier power is delivered to the speaker.
- An elegant all in one solution - amplifier, speaker processor and loudspeaker are combined in the one cabinet. There are no amp racks to store and cool, no heavy speaker cabling to run.
- Reduced number of connections contributes to inherent low noise, eliminates mis-patching and reduces the possibility of ground loops.

OTHER FEATURES

- Noiseless turn on/turn off, with optional Remote on/off control.
- Interactive System Control, our transparent speaker protection system, keeps the SPL 30 functioning well within the drivers' Safe Operating Area at all times
- Locking AC power connectors. By using the Neutrik PowerCon design, the power connector locks to the cabinet, avoiding the problem of a connector vibrating loose during a performance.
- Auxiliary Audio Loop out, to connect the signal chain to multiple cabinets.
- Auxiliary AC Power output, so that systems can be powered in a serial/daisy chain layout, thus reducing the cabling required.

The SPL series from ARX is a true 'building block' audio system, one that is truly cost effective, without the need for speaker cabling, extra amplifiers or amp racks. Installation could not be easier - simply connect AC power and a signal.

To sum up, the ARX SPL 30 successfully combines state of the art speaker design with practical, proven amplifier technology. It delivers a compact active 3-way speaker/amplifier package with the dynamic impact and transparent audio that today's audiences expect.

* *FerroCooled* is a trademark of the FerroFluidics Corporation

Every ARX speaker system provides innovative solutions designed to deliver ultimate audio reproduction. Our integrated self powered speaker systems, like every audio product we make, have been engineered for flawless performance day after day, night after night.

Architects' and Engineers' Specifications

The speaker system shall be an active three way system powered by triple internal power amplifiers integrated by an onboard 24dB Linkwitz Riley crossover at 500 and 2500 Hz.

The frequency response of the system shall be 50Hz - 20KHz \pm 4dB. The loudspeakers shall be a Low Frequency 15" 380mm 8 ohm driver, a horn loaded 8" 200mm Mid range driver, and a High Frequency 3" voice coil (2" throat) compression driver on a Flat front Consistent Beamwidth horn flare. Dispersion shall be a nominal 60° Horizontal x 40° Vertical.

The amplifier power shall be LF 400 Watts RMS 8 ohms, LF 200 Watts RMS 8 ohms, and HF 150 Watts RMS 16 ohms. The amplifier type shall be a Lateral MosFet design and the THD shall be <.01%.

The Highpass filter shall be -3dB down@ 50Hz, and shall also be 24dB Linkwitz Riley type

Loudspeaker protection shall include anti-clipping circuitry, relay muted input, relay switched output sensing DC and RF error.

The Input connector shall be 3 pin Female XLR, polarity Pin 2 +, Pin 3 -, Pin 1 Ground, and the Input Impedance shall be 44K Balanced (electronic), with a nominal input level of 0dB for nominal rated amplifier outputs.

There shall also be a 3 pin Male XLR Input Loop Connector, polarity Pin 2 +, Pin 3 -, Pin 1 Ground.

Maximum SPL shall be 131 peak, 126 continuous. AC Power input shall be preset at either 110V/220V/240V/50/60Hz. The AC Power Input shall be the Neutrik PowerCon type NAC 3 FCA, and the AC auxiliary output shall be the Neutrik PowerCon type NAC 3 FCB. AC Power protection shall be provided by a user resettable external circuit breaker. Maximum AC Wattage shall be 1200 VA (1200 Watts) and the transformer type shall be Toroidal.

The integrated self powered speaker system shall be the ARX SPL 30

SPL30 Specifications

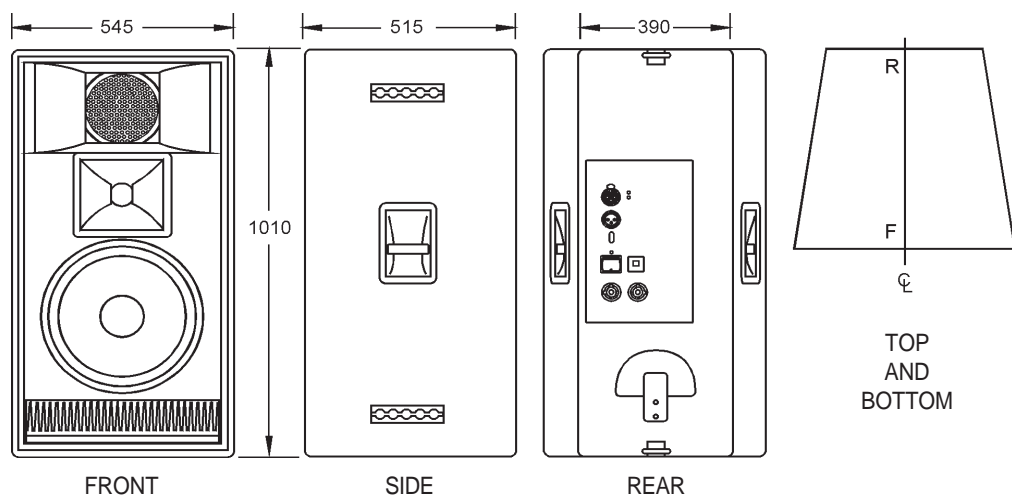
Frequency response	50Hz - 20KHz \pm 4dB
Loudspeaker type	Reflex loaded 15" 380mm 8 Ohm Horn loaded 8" (200mm) 8 Ohm Horn loaded 2" throat driver 16 Ohm Flat front Consistent Beamwidth
Size	1010H x 545W x 515D, 7.5° taper to back
Weight	75Kg
Dispersion	Nominal 60° H x 40° V
Input Connector	3 pin Female XLR, polarity Pin 2 +, Pin 3 -, Pin 1 Ground
Input Impedance	44K Balanced (electronic)
Nominal input level	0dB for nominal rated amplifier outputs
Input Loop Connector	3 pin Male XLR, polarity Pin 2 +, Pin 3 -, Pin 1 Ground
Crossover Frequency	500Hz, 2.5 KHz
Crossover Type	24dB Linkwitz Riley Filter type
Highpass Filter	-3dB @ 50Hz 24dB Linkwitz Riley
Maximum SPL	134 peak, 126 continuous
Amplifier power	LF 400 Watts RMS 8 ohms, 575 peak MF 200 Watts RMS 8 ohms, 350 peak HF 150 Watts RMS 16 ohms, 200 peak Lateral MosFet
Amplifier type	<.01%
THD	ISC amplifier anti-clipping circuitry Relay muted input Relay switched output sensing DC and RF error
Loudspeaker protection	
AC Power	110V / 220V / 240V 50 / 60Hz
AC Power Input	Neutrik PowerCon type NAC 3 FCA
AC Power Loop	Neutrik PowerCon type NAC 3 FCB
AC Power protection	User resettable external circuit breaker
AC Wattage Max	1200 VA (1200 Watts)
Transformer type	Toroidal



Specifications available on CD ROM



Our policy is one of continuous improvement, and therefore designs may change without notice. However, unless otherwise stated, specifications will always equal or exceed those previously given.



ARX Systems Pty Ltd, Australia; Phone: +61-3 9555 7859 Fax: +61-3 9555 6747