Arcline 118

Key features:

- Touring 18-inch low frequency enclosure
- High power 18" neodymium transducer
- Front and rear speakON™ chassis
- New ergonomic handle cup design
- Arrayable in multiple configurations, including cardioid
- External dimensions optimised for truck packing
- Hard-wearing textured 'TourCoat' polyurea finish

Applications:

- Indoor and outdoor dance events
- Large-scale touring
- Live music venues

Optimised for use in theatres, event spaces and outdoor areas, the Arcline 118 has been developed using extensive Finite Element Analysis (FEA) modelling to offer maximum performance from the smallest footprint. FEA-modelled hyperboloid porting significantly reduces port noise and air distortion, while the advanced internal brace design brings a noticeable weight reduction and increased cabinet rigidity.

Arrayable with the Arcline 218 in multiple configurations, including cardioid, this brings a new level of versatility to the audio arena. Aesthetically-pleasing cable management in cardioid configuration is possible via the front speakON™ chassis. Arcline systems can be arrayed by one person independently and each Arcline product can be cased and transported in multiples, radically reducing setup time.

Specifications

Frequency response	32 Hz - 200 Hz ±3dB
Efficiency[1]	97 dB 1W/1m
Nominal impedance	8 Ω
Power handling[2]	1500 W AES
Maximum output[3]	129 dB cont, 135 dB peak
Driver configuration	1 x 18" LF neodymium
Dispersion	Array dependant
Connectors	Front: 2 x 4-pole speakON™ NL4 Rear: 2 x 4-pole speakON™ NL4
Weight	55 kg (121.3 lbs)
Finish	Textured 'TourCoat' polyurea
Rigging	2 x M20 top hat

[1] Measured in half space [2] AES2 - 1984 compliant [3] Calculated

Version 0.9 preliminary data.

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Architectural specifications

The loudspeaker system shall be of the bass reflex type using a single hyperboloid port consisting of one high power 18" (457.2 mm) direct radiating low frequency (LF) transducer in a birch plywood enclosure.

The low frequency transducer shall be constructed on a cast aluminium frame, with a treated paper cone, long excursion 101.6 mm (4") voice coil, wound with copper wires on a high quality voice coil former and a neodymium magnet for high power handling and long-term reliability.

Performance specifications for a typical production unit shall be as follows: the usable bandwidth shall be 32 Hz to 200 Hz (±3 dB) and have a maximum on axis SPL of 129 dB continuous (135 dB peak) measured at 1m using IEC268-5 pink noise. Power handling shall be 1500 W AES at a rated impedance of 8 Ω with pressure sensitivity of 97 dB measured at 1W/1m. The wiring connection shall be via four Neutrik speakON™ NL4 (two front and two rear of the enclosure) two for input and two for loop-out to another speaker, to allow for pre-wiring of the connector before installation.

The enclosure shall be constructed from 18 mm multi-laminate birch plywood finished in a textured polyurea and shall contain fixture points for a pressed, weather-resistant, powder coated steel grille with foam filter to protect the low frequency transducer. The cabinet shall have six handles (two per side and two on top) for efficient manual handling. External dimensions of (H) 550 mm x (W) 656 mm x (D) 695 mm (21.7" x 25.8" x 27.4"). Weight shall be 55 kg (121.3 lbs).

The loudspeaker system shall be a Void Acoustics Arcline 118.