

# Arcline 218

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## Key features:

- Touring 2 x 18-inch low frequency enclosures
- Two high power 18" neodymium transducers
- 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:

- Large-scale touring
- Live music venues

Optimised for use in theatres, event spaces and outdoor areas, the Arcline 218 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 118 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	30 Hz - 200 Hz $\pm$ 3 dB
Efficiency <sup>1</sup>	100 dB 1W/1m
Nominal impedance	2 x 8 $\Omega$
Power handling <sup>2</sup>	3000 W AES
Maximum output <sup>3</sup>	134 dB cont, 140 dB peak
Driver configuration	2 x 18" LF neodymium
Dispersion	Array dependant
Connectors	Front: 2 x 4-pole speakON™ NL4 Rear: 2 x 4-pole speakON™ NL4
Weight	91 kg (200.6 lbs)
Finish	Textured 'TourCoat' polyurea
Rigging	1 x M20 top hat

<sup>1</sup> Measured in half space <sup>2</sup> AES2 - 1984 compliant <sup>3</sup> Calculated

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## Architectural specifications

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

The low frequency transducers 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 30 Hz to 200 Hz ( $\pm 3$  dB) and have a maximum on axis SPL of 134 dB continuous (140 dB peak) measured at 1 m using IEC265-5 pink noise. Power handling shall be 3000 W AES at a rated impedance of  $2 \times 8 \Omega$  with

pressure sensitivity of 100 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 four handles (two per side) for efficient manual handling. External dimensions of (H) 550 mm x (W) 1316 mm x (D) 695 mm (21.7" x 51.8" x 27.4"). Weight shall be 91 kg (200.6 lbs).

The loudspeaker system shall be a Void Acoustics Arcline 218.

