



C-3

COMPACT LOUDSPEAKER SYSTEM

DESCRIPTION:

The C-3 three-way, tri-amped fully horn-loaded system provides precise pattern control, low-distortion and natural sound quality. It is fully arrayable, and the unique modular rigging hardware makes flying safe, flexible and easy.

ENCLOSURE TYPE:

15° trapezoidal, fully horn-loaded, optimally vented bass

CABINET CONSTRUCTION:

Multi-ply Finland birch with stainless steel fasteners

DRIVER COMPLEMENT:

LOW FREQUENCY: Apogee 15" (380mm) permanent magnet cone type driver, treated with a waterproofing compound providing resistance to moisture, enabling long-term stability of cone resonance and cone mass parameters

MID FREQUENCY: Apogee 2" (50.8mm) midrange compression driver, treated with Ferrofluid® for greater power handling capability, lower distortion and control of short-term impedance rise

HIGH FREQUENCY: Apogee 1" (25mm) compression driver tweeter, treated with Ferrofluid

INPUT CONNECTORS:

Neutrik™ NL8MP Speakon™ standard; Cannon 'EP' or gas-tight barrier strips optional

HANDLES:

Twelve recessed handles designed as an integral part of the enclosure (no moving parts)

GRILL:

Powder-coated diamond punched steel provided with acoustic foam covering

TRIM:

Optional protective steel trim pieces on top & bottom edges, powder-coated for durability

RIGGING HARDWARE:

Eight 12 gauge steel nutplates, mounted four top and four bottom, recessed, nominally flush. Accepts 3/8"-16 thread (10mm nutplate or Aeroquip Pan fittings optional). Nutplates are backed with 12 gauge steel internal brackets

FINISH:

Textured high-strength black epoxy paint. Other colors optional

COMPATIBLE PROCESSORS:

P-C3, D-1 Digital Controller

ENGINEERING DATA:

FORMAT:

Tri-amped/Electronically-coupled

DISPERSION:

H: 60° x V: 40°

FREQUENCY RESPONSE (1M ON AXIS):

58 Hz to 17.3 Hz ± 3 dB

MAX SPL (@1M):

132 dB cont./138 dB peak

PTML (PEAK TRANSIENT MECHANICAL LIMIT):

150 dB

SENSITIVITY (1W @ 1M):

LF: 95 dB

MF: 109 dB

HF: 110 dB

NOMINAL IMPEDANCE:

8Ω each driver

MAX POWER HANDLING:

LF: 400 W cont./1600 W peak

MF: 150 W cont./600 W peak

HF: 100 W cont./400 W peak

DIMENSIONS:

front: 29" (727mm) wide by 31" (786mm) high

rear: 22" (55mm) wide by 31" (786mm) high

depth: 30" (762mm)

WEIGHT:

230 lbs (104.5 kg)

APPLICATIONS:

- MULTI-PURPOSE TOURING SYSTEMS
- THEATRICAL INSTALLATIONS
- SPORTS VENUES
- LARGE CLUBS
- HOUSES OF WORSHIP

APOGEE
SOUND INTERNATIONAL, LLC

PV FOR PERMANENT INSTALLATIONS (SINGLE CHANNEL)



RV ROAD VERSION (DUAL CHANNEL)



The P3 processor is available in three versions to meet the requirements of permanent system installers and portable system operators. Each includes servo-loop protection circuits, time and frequency domain correction and a precision front end utilizing factory matched components for high Common Mode Rejection. All models feature front panel function switches (which retain their settings through power-up/power-down cycles), turn-on/turn-off muting and Apogee's unique PAR™ adjustable protection circuitry. PAR (Positive Amplifier Return) senses the output of the amplifier and engages low distortion limiters to aid in protecting the drivers under abusive conditions. By selecting a "User Preset" mode, the protection circuits can be adjusted to match a wide range of power amps.

C-3 POLAR MEASUREMENTS

All polar measurements obtained in a free-field environment at 10 degree increments. Data acquired utilizing: TEF System 12+, B&K 4007 Mic, HP 35660A Dual Channel FFT Analyzer.

P3 PROCESSOR FRONT PANEL CONTROLS

LEVEL:	Continuously adjustable with positive detents. Linear taper controls allow precision attenuation
LOW CUT:	Low frequency roll-off (-6 dB/octave @ 100 Hz) for response correction when speaker is near boundary surfaces
HI CUT:	High frequency roll-off (-6 dB/octave @ 15 kHz)
BASS EXTEND:	Alters enclosure alignment providing + 4 dB peak @ 80 Hz
PRESET:	Enables rear panel PAR adjustments for calibration of the protection circuitry to the amplifier's dynamic headroom characteristics
LOCKOUT SWITCH:	Freezes the selected state of the other functions to avoid tampering
RV ONLY:	Front panel line level XLR inputs with "loop through" XLR outputs. Front panel speaker output connectors (Neutrik™ NL4MP Speakon™) standard; other connectors available. Front panel pin 1 ground lift switches
PV ONLY:	Rear panel barrier strip for pin 1 ground lift

SYSTEM PROTECTION

RMS LIMITER:	100ms integration for time protection against long term overdrive
PEAK LIMITER:	3 to 5ms fast acting to help protect against very high level transients
USER ADJUSTABLE LIMITER THRESHOLD:	For control of amplifier clipping
EXCURSION CONTROL:	Program defined adaptive enclosure alignment (modified B6)
INPUTS:	XLR connectors, active balanced inputs (optional transformer balanced inputs utilizing Jensen JE-11 P-1 transformers). Note: pin 2 hot
INPUT IMPEDANCE:	50kΩ AC coupled active balanced (10kΩ balanced with optional input transformer)
OUTPUTS:	Active balanced AC coupled outputs - XLR connectors on rear panel
DISTORTION:	.02% THD typical at maximum output (+20 dBm)
HUM & NOISE:	Better than -90 dBV
DYNAMIC RANGE:	110 dB

DIMENSIONS

RV:	19"(483mm) wide by 3.5"(89mm) high by 11.75"(299mm) deep; (2 EIU rack spaces)
PV:	19"(483mm) wide by 1.75"(45mm) high by 11.75"(299mm) deep; (1 EIU rack space)
WEIGHT:	PV: 12 lbs (5.5 kg) RV: 17 lbs (8.1 kg)



2180 SOUTH McDOWELL BLVD.
PETALUMA, CA 94954 USA
707 . 778 . 8887 PHONE
707 . 778 . 6923 FAX
WWW.APOGEE-SOUND.COM