

## **Superb Performance, Exceptional Value**

Drawing from years of experience and industry leading technologies like Complex Conic waveguides, CA/CX loudspeakers are designed to meet the needs of today's Installed-AV professionals, with a broad range of systems to provide effective solutions for every sound reinforcement challenge at competitive price points.

The new C Series loudspeakers incorporate the newest generation of Complex Conic horns, with the latest drivers to provide clean, natural sound and tight pattern control. Unlike conventional loudspeaker designs, Complex Conic horns provide consistent beamwidth over a wider frequency range, with the natural, transparent sound that Renkus-Heinz is known for. And as with all Renkus-Heinz products, C Series loudspeakers are backed by Renkus-Heinz's renowned worldwide customer support.

## **Applications**

- The CX/CA82 is a compact, dual-8" Complex Conic loudspeaker perfect for any application where small size, consistent directivity and great sonic performance are required.
- · Main loudspeaker in small systems
- Side fill or under balcony applications in House of Worship or auditoriums
- · Foreground music systems
- High quality distributed sound systems

# **Compact Design, Sizable Performance**

The CX/CA82 was developed for applications needing consistent directivity and great sonics from a compact cabinet. Dual woofers provide additional output and tighter vertical pattern control

It features a 1.4" voice coil high frequency compression driver with a 1" throat coupled to a Complex Conic horn. The patented Complex Conic horn eliminates high frequency beaming and provides wide angle coverage out to 20 kHz and beyond. The high-efficiency 6" woofers produce a strong low end. Together these deliver a surprisingly high 129 dB peak output level from 90 Hz to 20 kHz.

# **Designed In Flexibility**

Twelve M6 Universal Mounting Points and 10 mm u-bracket mounting plates make installation easy and clean. The Complex Conic horn is field rotatable allowing the installer the flexibility of installing the loudspeaker either vertically or horizontally while maintaining the dispersion necessary for the project.

The CX/CA82 and it's (optional) matching U-Bracket are available in either white or black paint allowing them to bend into most environments.

Available externally powered or with four flavors of built-in amplification; RHAON II networking, monitoring and control, and Dante digital audio, the CX/CA82 brings new levels of versatility to compact loudspeakers.

# **CA/CX Series**

CX82

Non-Powered

**CA82-A** 

Powered, Analog

CA82-RN

**RHAON Empowered** 

CA82-RD

**RHAON & Dante Redundant** 

# 2 x 8" LF + 1" HF Two-way, Complex Conic Loudspeaker



#### • Complex Conic Horn

Consistent directivity, superior sonics and field rotatable.

Surprising Power

90 Hz to 20 kHz response and 129 dB, peak SPL.

Compact

Just 28-1/2 x 10-1/2 x 10-5/16 inches/724 x 262 x 267 mm.

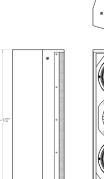
• Optional U-Bracket Mount

Allows easy horizontal mounting and aiming.

Available SA625 Amplifier

SA625 amplifier offers high output, full protection limiting, analog, and optional AES and Dante inputs.

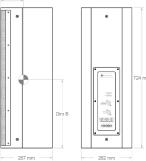
|                      |   | CA/CX82 Specification   | ns  |  |  |
|----------------------|---|---|---|--|--|
|                      | CX82  | CA82-A  | CA82-RN   | CA82-RD  |  |
| Connectors:          | 2 x Speakon® NL4<br>Four-place terminal strip, all paralleled   | 2 x XLR-3, In & Loop-out  | 2 x XLR-3, In & Loop-out, Analog and AES<br>2 x RJ45, primary & secondary |  |  |
| Sensitivity:         | 99 dB (1W/1m)   | 1.0 volt for rated output, analog   |   |  |  |
| Power Handling:      | Passive: 250 W AES @ 8 ohms,<br>Bi-amp: 250 W AES @ 8 ohms, LF<br>20 W AES @ 16 ohms, HF  | See SA625 amplifier specs below   |   |  |  |
| Crossover Frequency: | 2.2 kHz, passive, bi-amp selectable   | 2.2 kHz activ   | 2.2 kHz active electronic   |  |  |
| Max. SPL:            | 129 dB, (peak, whole space)   | 126 dB (peak  | 126 dB (peak, whole space)  |  |  |
| Frequency Response:  | 90 H  | 90 Hz to 20 kHz (+/- 3dB)   |   |  |  |
| Dispersion           | 120° horizontal x 60° vertical, Rotatable Complex Conic Horn  |   |   |  |  |
| Enclosure:           | 11 ply birch plywood  |   |   |  |  |
| Grille:              | 16 GA powder-coated, plated steel   |   |   |  |  |
| Transducers:         | Woofer: 2 x SSL8-20; High Frequency Driver: SSD1445-16; Replacement HF Diaphragm CD1445-16                                      |   |   |  |  |
| Finish:              | Black (RAL9010) or White (RAL9011) paint  |   |   |  |  |
| Mounting:            | 12 x M6 UMH points; 2 x M10 u-bracket nutplate. Optional: UBRKT/CT82B (black), UBRKT/CT82W (white)                              |   |   |  |  |
| Dimensions:          | $10^{-5}/_{16}$ " w x 28- $^{1}/_{2}$ " h x 10- $^{1}/_{2}$ " d 262 mm w x 724 mm h x 267 mm d                                  |   |   |  |  |
| Weight:              | 34 II   | bs/15.4 kg  |   |  |  |
|                      |   | SA625 Amplifier Specific  | ations  |  |  |
|                      | SA625-A   | SA625-RN  | SA625-RD (Brooklyn II)  |  |  |
| Audio Connections:   | 2 x XLR-3, In & Loop-out, Analog  | 2 x XLR-3, In & Loop-out, Analog and AES  | 2 x XLR-3, In & Loop-out, An<br>2 x RJ45 Dante Primary & So               | •  |  |
| Latency:             | 6.25 ms   | 6.25 ms   | 6.25 ms Analog & AES<br>6.25 ms + Dante transport Is                      | latency  |  |
| User DSP:            | None  | Eight fully parametric filters, high and low shelf, high and low pass filters, delay to 340 ms. |   |  |  |
| Software:            | None  | RHAON II  | RHAON II and Dante Controll   | Controller   |  |
| Max. Input Level:    | +22 dBu, Analog   | +22 dBu, Analog, 0 dBFS digital   | +22 dBu, Analog, 0 dBFS dig   | gital  |  |
| Network Connections: | None  | 2 x RJ45, Looping Ethernet/RHAON  | 2 x RJ45 Dante Primary & Si<br>single or redundant Ethernet               | secondary Ethernet/RHAON (Note: Dante and RHAON share<br>t network.) |  |
| Power Output:        | LF= 500 watts, @ 8 ohms / HF = 125 watts @ 16 ohms. Multi-band peak and thermal limiting on both channels protects the drivers. |   |   |  |  |
| Mains Voltage:       | 100-240 volts, 50/60 Hz auto-switching  |   |   |  |  |
| Power Consumption:   | Idle: 200 mW. 1/8 power: 120 W (onset of limiting) 1/3 power: 240 W (hard limiting)   |   |   |  |  |
| Power Connector:     | Neutrik powerCON TRUE-1   |   |   |  |  |
| Temperature Limits   | Max.: 140° F/60° C, with no direct sun exposure; Min.: -22° F/-30° C; leave unit on to keep interior warm below 32° F/0° C.     |   |   |  |  |

















= Aproximate Center of Gravity CX Dim A = 4-3/4 in. (121 mm) CA Dim A = 4-1/2 in. (114 mm) CX Dim B = 13-3/4 in. (349 mm) CA Dim B = 14 in. (356 mm)

