



### Commanding Performance, Compelling Value

Sound that makes performances and audiences truly come alive doesn't come easy. But CF & CFX Series loudspeakers put the power of unique Renkus-Heinz developments like Complex Conic horns to work for you. Versatile enclosure designs, go-anywhere hardware and rugged construction help solve your sound reinforcement challenges easily and quickly. Advanced options like intelligent onboard amplification and RHAON — the Renkus-Heinz Audio Operations Network — help you build sophisticated sound systems that are easy to use.

Every CF & CFX Series loudspeaker is engineered by Renkus-Heinz to unrivaled standards of quality and innovation. Before we'll ship them, your loudspeakers have to meet our exacting requirements for performance that will make you proud and durability that will keep you sounding great.

#### Applications

Virtually any application where size is a critical issue and outstanding sonic performance is required.

#### Permanent Installations

- Ideal for fills, delays, distributed and playback systems
- Churches, schools, sports venues, board rooms, malls, transportation venues, retail environments

#### Portable Applications

- Ideal solution for portable, compact, full-range sound reinforcement requirements.
- Performing artists, rental A/V, schools, churches, etc.



#### PF Series Intelligent Amplifiers

Passive, powered or networked: you can choose the CF/CFX system that suits your needs at any time. At the factory or in the field, the CFX passive connector plate can be easily replaced by a PF1-200 series Class D digital amplifier with loudspeaker specific processing. The PF1-200's lightweight switching power supply delivers 70% efficiency at full output, reducing AC requirements and eliminating the need for a cooling fan.



Whenever you are ready for Ethernet audio networking, your CF/CFX loudspeakers are too; just replace the connector plate or the PF1-200 with a PF1-200R RHAON empowered amplifier equipped for connection to the Renkus-Heinz Audio Operations Network. RHAON empowers you with CobraNet digital audio distribution, user configurable DSP for maximum control, remote systems management from any Windows computer, life safety functions and more – all using standard Ethernet hardware and cabling.

Ready now for a self-powered CF61 System? Order the CF61-2. If you need digital audio distribution and full audio operations networking, order the RHAON empowered CF61-2R.

## CF / CFX Series

### CF61-2

Self-Powered

### CF61-2R

RHAON Empowered

### CFX61

Non-Powered

### Compact 6 1/2" + 1" HF 2-Way Complex Conic Loudspeakers

### PASSIVE : POWERED : NETWORKED



#### • High Volume Output, Small Enclosures

80 Hz to 20 kHz ±3 dB: Outstanding, full-range performance in an extremely compact, space-saving design.

#### • Flexible Input Configurations

Choose passive inputs, or go self-powered with the PF1-200 series intelligent amplifier, either with or without RHAON.

#### • RHAON Audio Operations Network

Self-Powered CF61-2R cabinets are RHAON empowered for flexible digital signal distribution, loudspeaker management and control using standard Ethernet hardware and cabling.

#### • Exclusive 150° by 60° Complex Conic Design

Provides constant beamwidth/directivity without the problems of conventional rectangular horns; can be rotated 90° within the cabinet for wide or deep listening spaces.

#### • 1" Extended Range Titanium HF Driver

Provides smooth, low distortion, high frequency performance to 20 kHz and beyond.

#### • Heavy-Duty 6.5" Woofer

Easily handles 120 Watts of program power.

## TECHNICAL INFORMATION

<b>Sensitivity:</b> CF61-2 & CF61-2R: 1.0 V for RPO CFX61: 90 dB (1W/1m)	<b>Power:</b> CF61-2 & CF61-2R: See PF1-200 below CFX61: 120 W pgm at 16 Ohms
<b>Maximum SPL:</b> 114 dB peak	<b>Connectors:</b> CF61-2 & CF61-2R: See PF1-200 Amplifier CFX61: Screw terminals & looping 4-pin Neutrik SpeakOn style connectors
<b>Dispersion:</b> 150° H by 60° V	<b>Hardware:</b> 12-point univ. mtg. hdw. (Metric M6 threads) U-bracket attachment points Omnimount attachment plate optional
<b>Freq. Resp:</b> ± 3 dB, 80 Hz to 20 kHz	<b>Dimensions:</b> 16" H x 9 7/8" W x 11" D (40.6 cm x 25 cm x 28 cm)
<b>HF Driver:</b> 1" Titanium driver, model SSD140-8F; 15 W RMS, 30 W pgm	<b>Weight:</b> CF61-2 & CF61-2R: 23.2 Lbs (10.5 Kg) net CFX61: 21.2 Lbs (9.6 Kg) net
<b>LF Driver:</b> 6.5" woofer, model SSL6.5-9F; 1" VC; 60 W RMS @ 16 Ohms, 120 W pgm	
<b>Enclosure:</b> 13-ply hardwood, perforated metal grille <b>Finish:</b> Black or white paint, custom color optional Weather resistant treatment optional	

## PF1-200 DIGITAL AMPLIFIER

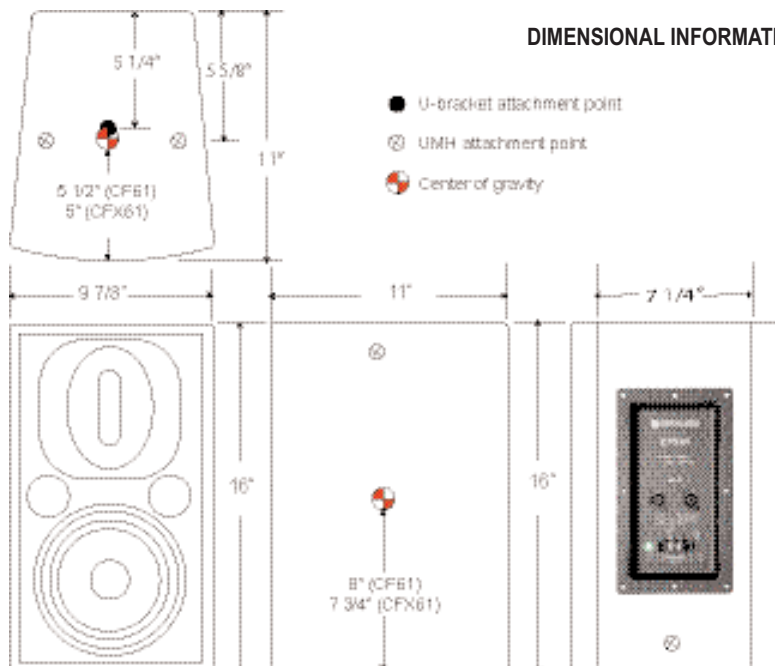
<b>Power:</b> 200 W RMS @ 4 Ohms	<b>Controls:</b> Gain (screwdriver adjustable)
<b>Freq. Resp:</b> +0.0, -.5 dB, 20 Hz to 20 kHz	<b>Power Connector:</b> IEC Power connector
<b>THD Distortion:</b> < 0.02% typical	<b>Input:</b> Looping XLR; female in, male out (pin 1 chassis, pin 2 +, pin 3 -)
<b>Hum &amp; Noise:</b> <100 dB (A weighted)	<b>Power:</b> Switchable, 115 or 230 V AC, 50/60 Hz 2.4 A @ 120 V, 1.2 A @ 240 V
<b>Damping:</b> >100	Idle current: 200 ma @120 V; 100 ma @ 240 V
<b>Input:</b> 10K Ohm balanced differential	Max inrush current: 1 A
<b>Sensitivity:</b> 1.0 V for RPO	
<b>CMR:</b> 74 dB	

## PF1-200R RHAON EMPOWERED AMPLIFIER

The PF1-200R is identical to the PF1-200 except for the addition of the RHAON Network Interface; additional capabilities include:

<b>Inputs:</b> CobraNet: Dual RJ45 connectors; accept Cat 5 copper cable. Analog: Phoenix connectors	<b>Protection:</b> Soft & Peak limiting, Excursion Control & Thermal Regulation
<b>Digital Format:</b> 16, 20 or 24 bit PCM; 48 or 96 kHz sample rate; selectable Network Latency.	For additional details on the RHAON Audio Operations Network, refer to <a href="http://www.renkus-heinz.com/Rhaon/Index.html">www.renkus-heinz.com/Rhaon/Index.html</a> .

Note: All analog inputs and outputs comply with AES Standard 48-2005 on interconnecting, grounding and shielding.



### Note:

The UMH (Universal Mounting Hardware) attachment points have Metric M6 threads and are positioned 1 3/4" from the edges unless otherwise indicated.

The rear view of a CFX61 is shown. The enclosure is shown without its metal grille.

For more detailed dimensional information, please refer to the 2D and 3D drawing files on our website [www.renkus-heinz.com](http://www.renkus-heinz.com).