



## 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 compact main PA for music and speech or as part of a high output distributed system in larger venues.
- Houses of worship, performing art centers, night clubs, stadiums and arenas.

### Portable Applications

- Ideal main PA for unobtrusive live music and speech reinforcement or as fill coverage in larger systems.
- Rental A/V, DJ systems, churches, schools, 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 or PF1-500 Class D digital amplifier with loudspeaker specific processing. Their lightweight switching power supplies deliver 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 with a PF1-200R or PF1-500R 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 cable.

If you need an outstanding high-power 15-inch 2-way system, order the CFX151 or CF151-5. For full-range nearfield applications, the CF151-2 with a 200 Watt PF1-200 is a logical choice. If you need Ethernet-based audio operations networking, order the CF151-2R or the CF151-5R; both are RHAON empowered.

## CF / CFX Series

### CFX151

Non-Powered

### CF151

Self-Powered

## 15" Woofer + 2" HF, 2-Way Complex Conic Loudspeakers

### PASSIVE : POWERED : NETWORKED



### • Compact Design

Outstanding, full-range  $\pm 3$  dB, 60 Hz to 18 kHz performance in a compact, space-saving design.

### • RHAON Renkus-Heinz Audio Operations Network

All self-powered CF151 series cabinets are available with RHAON for flexible digital signal distribution, loudspeaker management and control.

### • Exclusive 90° by 40° 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.

### • 2" Extended Range Titanium HF Driver

Provides smooth, low distortion high frequency performance to 18 kHz and beyond.

### • Heavy-Duty 15" Woofer

Easily handles 700 Watts of program power.

### • Built-in Crossover

Includes EQ and high frequency protection; in the CFX151 eliminates need for a separate electronic crossover and bi-amplification.

## TECHNICAL INFORMATION

**Sensitivity:** CF151-2/2R & CF151-5/5R  
1.0 V for rated power output  
CFX151: 100 dB (1W/1m)

**Max. SPL:** CF151-2/2R: 122 dB program, 125 dB peak  
CF151-5/5R: 125 dB program, 128 dB peak  
CFX151: 127 dB program, 130 dB peak

**Dispersion:** 90° H by 40° V

**Freq. Resp:** ± 3 dB, 60 Hz to 18 kHz

**HF Driver:** 2" SSD203-8F driver,  
40 W RMS, 80 W program

**LF Driver:** 15" model SSL15-15F, 350 W RMS @ 4 Ohms,  
700 W program

**Enclosure:** Hardwood, perforated metal grille

**Power:** CF151-2/2R & CF151-5/5R: 115 V AC or 230 V AC  
CFX151: 700 Watts program at 4 Ohms

**Connectors:** CFX151: Screw terminals & looping Neutrik 4-pin  
SpeakOn style connectors

**Finish:** Black or white paint

**Hardware:** 6-point univ. mtg. hdw. (#6 metric threads)  
U-bracket attachment points  
Tripod socket

**Dimensions:** 29 3/8" H x 19" W x 16 7/8" D  
(74.6 cm x 48.3 cm x 42.8 cm)

**Weight:** CF151-2/2R: 72.2 Lbs (32.8 Kg) net  
CF151-5/5R: 74.2 Lbs (33.7 Kg) net  
CFX151: 70.2 Lbs (31.8 Kg) net

## PF1-200 & PF1-500 AMPLIFIERS

**Power:** PF1-200: 200 W RMS @ 4 Ohms  
PF1-500: 500 W RMS @ 4 Ohms

**Freq. Resp:** +0.0, -5 dB, 20 Hz to 20 kHz

**THD Distortion:** < 0.02% typical

**Hum & Noise:** < 100 dB (A weighted)

**Damping:** > 100

**Input:** 10K Ohm balanced differential

**Sensitivity:** 1.0 V for RPO

**CMR:** 74 dB

**Controls:** Gain (screwdriver adjustable)

**Power:** Power: EC Power connector

**Input:** Looping XLR; female in, male out (pin 1 chassis, pin 2 +, pin 3 -)

**PF1-200:** 2.4 A @ 120 V, 1.2 A @ 240 V  
Idle current: 200 mA @ 120 V; 100 mA @ 240 V  
Max inrush current: 1 A, Universal 90-260 VAC, 50/60 Hz

**PF1-500:** 5 A @ 120 V, 2.5 A @ 240 V  
Idle current: 400 mA @ 120 V; 200 mA @ 240 V  
Max inrush current: 1 A, Switchable 115-230 VAC, 50/60 Hz

## PF1-200R & PF1-500R RHAON EMPOWERED AMPLIFIERS

The PF1-200R & PF1-500R are identical to the PF1-200 & PF1-500 except for the addition of the RHAON Network Interface; additional capabilities include:

**Input:** CobraNet; dual RJ45 connectors; accept  
Cat 5 copper cable.  
AES/EBU Phoenix connectors;  
Analog Phoenix connectors

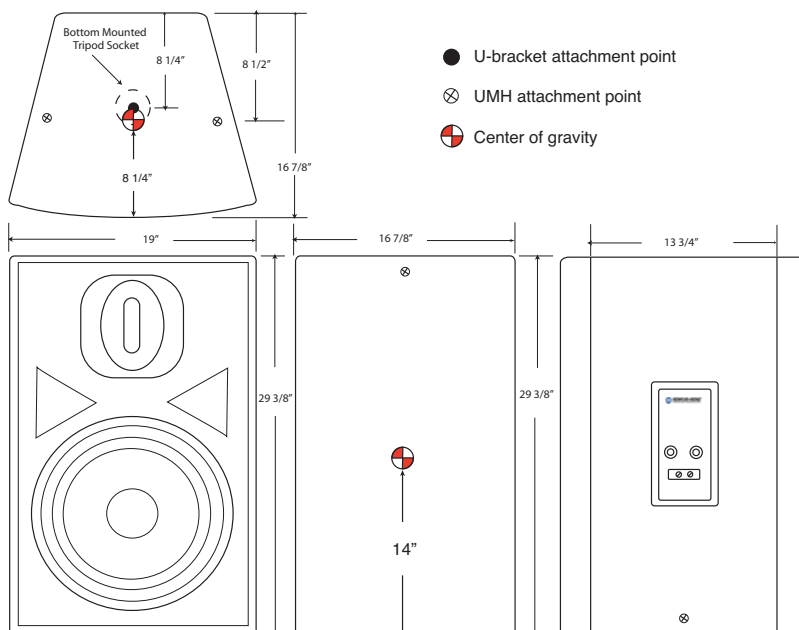
**Digital Format:** 16, 20 or 24 bit PCM; 48 or 96 kHz sample  
rate; selectable Network Latency.

**Protection:** Soft & Peak Limiting, Excursion Control &  
Thermal Regulation

For additional details on the RHAON Audio Operations Network, refer to  
Renkus-Heinz brochure # RH 606.

Note: All analog inputs and outputs comply with AES Standard 45-2005 on interconnecting, grounding and shielding.

## DIMENSIONAL INFORMATION



### Note:

The UMH (Universal Mounting Hardware) attachment points have #6 metric threads and are positioned 1 3/4" from the edges unless otherwise indicated.

The rear view of a CFX151 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)