

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, schools, 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, bi-amped, 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 connector plate can be switched from passive to bi-amp operation or easily replaced by a PF Series Class D digital amplifier with loudspeaker specific processing. Their light-weight 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,

PF1-500R or PF2-500R RHAON empowered amplifier. RHAON empowers you with multi-channel digital audio distribution, user configurable DSP for maximum control, remote system management from any Windows computer, life safety functions and more – all using standard Ethernet hardware and cabling.

If you need an outstanding high-power 12-inch 2-way system, order the CFX121, CFX121-8 or CF121-5. For full-range nearfield applications, the CF121-2 with a 200 Watt PF1-200 is a logical choice. If you need Ethernet-based audio operations networking, order the CF121-2R, CF121-5R or CF121-52R; all are RHAON empowered.

CF / CFX Series

CF121-2
Self-Powered

CF121-5
Self-Powered

CF121-2R
RHAON Empowered

CF121-5R
RHAON Empowered

CF121-52R
RHAON Empowered

CFX121
Non-Powered

CFX121-8
Non-Powered

12" Woofer + 2" HF
2-Way Complex Conic Loudspeakers

PASSIVE : POWERED : NETWORKED



- **Compact Design**
Outstanding, full-range ± 3 dB, 70 Hz to 18 kHz performance in a compact, space-saving design.
- **RHAON Renkus-Heinz Audio Operations Network**
All self-powered CF121 loudspeakers are available with RHAON for flexible digital signal distribution, loudspeaker management and control.
- **Exclusive Complex Conic Design**
Provides constant beamwidth/directivity without the problems of conventional rectangular horns; can be rotated 90° within the cabinet. Choice of 90° x 60° or 120° x 60° coverage.
- **2" Extended Range Titanium HF Driver**
Provides smooth, low distortion, high frequency performance to 18 kHz.
- **Heavy-Duty 12" Woofer**
Easily handles 500 Watts of program power.
- **Passive or Bi-Amp Operation**
CFX121 models can be operated in either passive or bi-amp mode.

TECHNICAL INFORMATION

Sensitivity: CF121: 1.0 V for RPO
CFX121 & CFX121-8: 98 dB (1W/1m)

Max. SPL:
CF121-2 & -2R: 124 dB peak
CF121-5, -5R & -52R: 128 dB peak
CFX121 & CFX121-8: 128 dB peak

Dispersion: 90° H by 60° V, 120° H by 60 V optional

Freq. Resp: ± 3 dB, 70 Hz to 18 kHz

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

LF Driver: 12" model SSL12-14F, 250 W RMS @ 4 Ohms, except CFX121-8 which uses model SSL12-22, 8 Ohm, 250 W RMS woofer

Enclosure: Hardwood, perforated metal grille

Finish: Black or white paint, custom color optional
Weather resistant treatment optional

Power: CF121: 115 V AC or 230 V AC
CFX121: 500 W pgm at 4 Ohms
CFX121-8: 500 W pgm at 8 Ohms

Connectors: CFX121: Screw terminals & looping Neutrik 4-pin Speakon style connectors

Hardware: 6-point univ. mtg. hdw. (Metric M10 threads)
U-bracket attachment points
35 mm (1 3/8") diameter tripod socket
Omnimount attachment plate optional

Dimensions: 23 1/8" H x 15 3/4" W x 14 1/2" D
(58.7 cm x 40 cm x 36.8 cm)

Weight: CF121-2 & -2R: 54.4 Lbs (24.7 Kg) net
CF121-5, -5R & -52R: 56.4 Lbs (25.6 Kg) net
CFX121 & CFX121-8: 52.4 Lbs (23.8 Kg) net

PF1-200 & PF1-500 DIGITAL 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 Connector: IEC Power connector

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

Power: Switchable, 115 or 230 V AC, 50/60 Hz

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

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

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

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

Inputs: 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

PF2-500R RHAON EMPOWERED AMPLIFIER

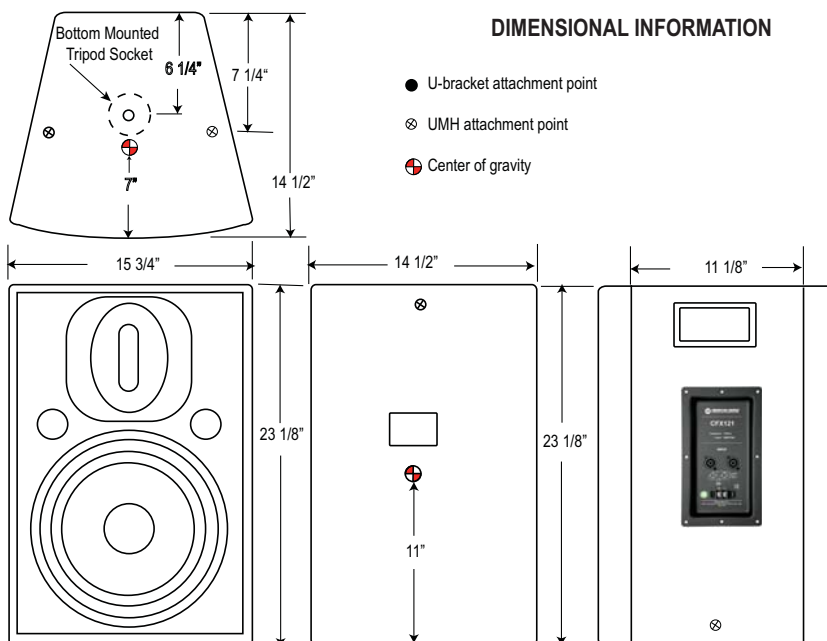
The PF2-500R is a RHAON empowered 500/200 W RMS bi-amplifier. It is identical to the PF1-500R except for also having a 200 Watt HF amplifier and associated electronic crossover.

Power: 6 A @ 120 V, 3 A @ 240 V
Idle current: 500 ma @ 120 V; 250 ma @ 240 V. Max inrush current: 1 A

For additional details on the RHAON Audio Operations Network, refer to www.renkus-heinz.com/Rhaon/Index.html.

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

DIMENSIONAL INFORMATION



Note:

The UMH (Universal Mounting Hardware) attachment points have Metric M10 threads and are positioned 1 3/4" from the edges unless otherwise indicated.

The rear view of a CFX121 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