



RENKUS-HEINZ
ADVANCING SOUND. PROVIDING SOLUTIONS.

**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. Optional intelligent amplification, versatile enclosure designs, go-anywhere hardware and rugged construction help solve your sound reinforcement challenges easily and quickly.

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 live music and speech reinforcement, club/disco systems and high power distributed systems.
- Churches, schools, performing art centers, night clubs, stadiums and arenas.

Portable Applications

- Ideal for live music and speech reinforcement, portable DJ systems and high output distributed systems.
- Rental A/V, DJ systems, churches, schools, etc.

Advanced Complex Conic Horn Design



Designed around the spherical expansion of the acoustic pressure wave, Complex Conic horns provide constant beamwidth/directivity without the problems of conventional rectangular horns. With extended pattern bandwidth, lower distortion and minimal coloration, Complex Conic horns work better and sound far more natural than ordinary horns.

PF-1 Integral Amplifier

All CF Series loudspeakers are equipped with the PF-1 Class D Digital amplifier/signal processor that combines amplification, crossovers, protection and equalization into a single compact unit.



Powered by a switching power supply, the PF-1 is light weight and over 70% efficient at full output. Its high efficiency reduces power requirements and eliminates the need for fan cooling.

Non-powered CFX loudspeakers can easily be upgraded to self-powered CF loudspeakers by replacing the connector plate with the PF-1 amplifier module.

CF121
Self-Powered

CFX121
Non-Powered

**12" WOOFER - 2" HF
2-WAY COMPLEX CONIC
LOUDSPEAKERS**



• **Compact Design**

Outstanding, full-range 70 Hz to 18 kHz performance in a compact, space-saving design.

• **Exclusive Complex Conic Design**

Complex Conic horn provides superior pattern control with low distortion.

• **90° by 60° Coverage**

Complex Conic horn provides smooth 90° by 60° coverage, may be rotated 90° within cabinet.

• **2" Extended Range Titanium HF Driver**

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

• **Heavy-Duty 12" Woofer**

Easily handles 500 Watts of program power.

• **Built-in Crossover**

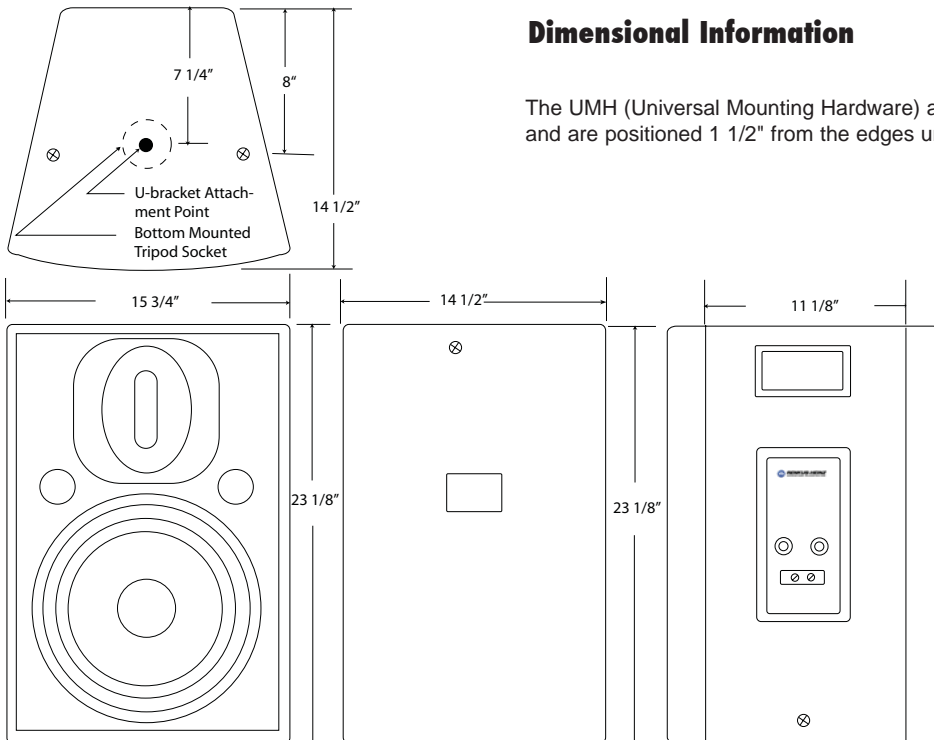
Includes EQ and high frequency protection; in CFX models eliminates need for a separate electronic crossover and bi-amplification.

Technical Information

SENSITIVITY – CF121: 1.0 V for rated power output	POWER – CF121: 115 V AC or 230 V AC
CFX121: 98 dB (1W/1m)	CFX121: 500 Watts program at 4 Ohms
MAXIMUM SPL – CF121: 124 dB program, 127 dB peak	CONNECTORS – CFX121: Screw terminals & looping Neutrik 4-pin SpeakOn style connectors
CFX121: 126 dB program, 129 dB peak	
DISPERSION: 90° H by 60° V	FINISH: Black
FREQUENCY RESPONSE: 70 Hz to 18 kHz	HARDWARE: 6-point univ. mtg. hdw. U-bracket attachment points Tripod socket
HF DRIVER: 2" SSD203-8F driver, 40 W RMS, 80 W program	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)
LF DRIVER: 12" model SSL12-14F, 250 W RMS @ 4 Ohms, 500 W program	NET WEIGHT– CF121: 54.4 Lbs (24.7 Kg) net
ENCLOSURE: Plywood, perforated metal grille	CFX121: 52.4 Lbs (23.8 Kg) net

PF-1 Amplifier

POWER RATING: 200 Watts RMS @ 4 Ohms, 300 Watts Burst	CONNECTORS INPUT: Looping XLR; female in, male out (pin 1 chassis, pin 2 +, pin 3 -)
FREQUENCY RESPONSE: +0.0, -5 dB, 20 Hz to 20 kHz	POWER: IEC power connector
THD DISTORTION: < 0.02% typical	CONTROLS: Gain (screwdriver adjustable)
HUM & NOISE: <100 dB (A weighted)	POWER REQUIREMENTS: Universal 90–260 VAC, 50/60Hz. 2.4 A @ 120 V, 1.2 A @ 240 V
DAMPING INPUT: >100 10K Ohm balanced differential	Idle Current: 200 mA @ 120 V; 10 mA @ 240 V
INPUT SENSITIVITY: 1.0 V for RPO	Max Inrush Current: 1 A
COMMON MODE REJECTION: 74 dB	



Dimensional Information

The UMH (Universal Mounting Hardware) attachment points have #6 metric threads and are positioned 1 1/2" from the edges unless otherwise indicated.

Note:
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