RENKUS-HEINZ

CF / CFX Series

CF81-2 Self-Powered

CF81-2R RHAON Empowered

CFX81 Non-Powered

Compact 8” + 1” HF 2-Way Complex Conic Loudspeakers

PASSIVE : POWERED : NETWORKED

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.

RHAON

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 CF81 System? order the CF81-2. If you need digital audio distribution and full audio operations networking, order the RHAON empowered CF81-2R.

- **High Volume Output, Small Enclosures**
  70 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 Renkus-Heinz Audio Operations Network**
  Self-Powered CF81-2R cabinets are easily connected to RHAON 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.

- **1" Extended Range Titanium HF Driver**
  Provides smooth, low distortion, high frequency performance to 20 kHz and beyond.

- **Heavy-Duty 8" Woofer**
  Easily handles 200 Watts of program power.

TECHNICAL INFORMATION

Sensitivity: CF81-2 & CF81-2R: 1.0 V for RPO
CFX81: 91 dB (1W/1m)

Maximum SPL: 117 dB peak

Dispersion: 150° H by 60° V
Freq. Resp: ± 3 dB, 70 Hz to 20 kHz

HF Driver: 1" Titanium driver, model SSD140-8F; 15 W RMS, 30 W pgm
LF Driver: 8" model SSL8-13F woofer, 2" VC, treated fiber cone; 100 W RMS @ 8 Ohms, 200 W pgm

Enclosure: 13-ply hardwood, perforated metal grille
Finish: Black or white paint; custom color optional

WR OPTION: WR Weather resistant treatment optional: provides fiberglass/gel coat finish, Nickel plated steel grille and 8 foot pigtails; custom colors and stainless steel grille available.

Power: CF81-2 & CF81-2R: See PF1-200 Ampifier
CFX81: 200 W pgm at 8 Ohms

Connectors: CFX81: Screw terminals & looping Neutrik 4-pin Speakon style connectors

Hardware: 6-point univ. mtg. hdw. (Metric M6 threads)
U-bracket attachment points
35 mm (1 3/8") tripod socket
Omnimount attachment plate optional

Dimensions: 19 7/8" H x 11 1/8" W x 12 1/4" D
(50.5 cm x 28.2 cm x 31.1 cm)

Weight:
CF81-2 & CF81-2R: 27.2 Lbs (12.3 Kg) net
CFX81: 25.2 Lbs (11.4 Kg) net

PF1-200 DIGITAL AMPLIFIER

Power: 200 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
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

PF1-200R RHAON EMPOWERED AMPLIFIER

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

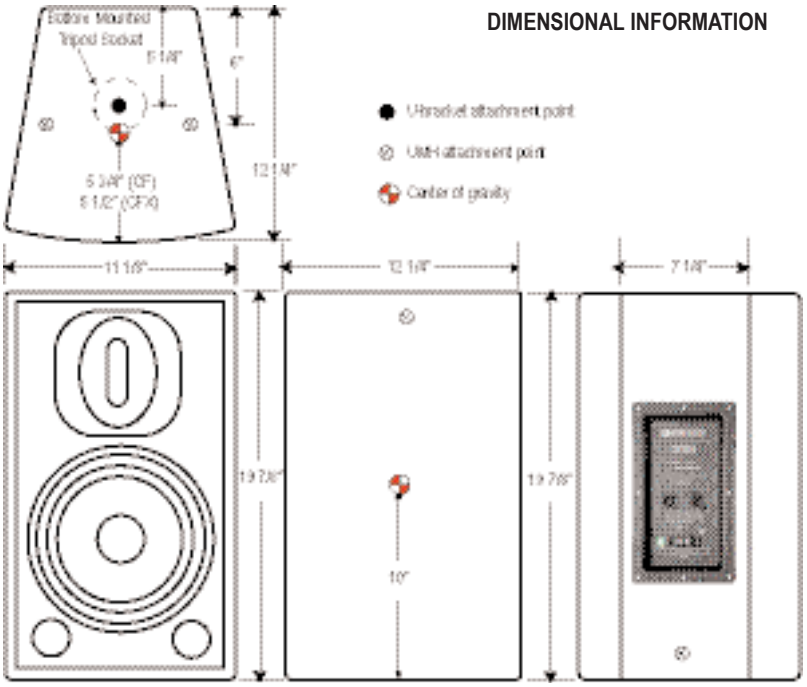
Inputs: CobraNet: Dual RJ45 connectors; accept Cat 5 copper cable.
AES/EBU: Phoenix connectors;
Analog: Phoenix connectors
Digital Format: 16, 20 or 24 bit PCM; 48 or 96 kHz sample rate; selectable Network Latency.

Protection: Soft & Peak limiting, Excursion Control & Thermal Regulation

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 M6 threads and are positioned 1 3/4" from the edges unless otherwise indicated.

The rear view of a CFX81 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

RENKUS-HEINZ

Renkus-Heinz, Inc., 19201 Cook Street, Foothill Ranch, CA 92610-3501, USA
Tel: +1 949-588-9997 • Fax: +1 949-588-9514 • Sales@renkus-heinz.com • www.renkus-heinz.com