



### 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 high-output, low frequency content is required

#### Permanent Installations

- High quality music/speech systems and surround systems for houses of worship, schools, performing art centers, night clubs, etc.

#### Portable Applications

- Live music reinforcement, DJ systems, houses of worship, 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 PF1-500 Class D digital amplifier with loudspeaker specific processing. Its 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 with a 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 cabling.

If you need an outstanding high-power 18-inch subwoofer, order the CFX18S, CFX18S-8 or CF18S-5. If you need Ethernet-based audio operations networking, order the RHAON empowered CF18S-5R.

## CF / CFX Series

### CF18S-5

Self-Powered

### CF18S-5R

RHAON Empowered

### CFX18S

Non-Powered

### CFX18S-8

Non-Powered

## 18" Subwoofers

PASSIVE : POWERED : NETWORKED



#### • Powerful 18" Subwoofers

Provide high-impact (128 dB peak SPL on the CFX18S) sub-bass performance.

#### • RHAON Renkus-Heinz Audio Operations Network

Self-powered CF18S series subwoofers are available with RHAON for flexible digital signal distribution, loudspeaker management and control.

#### • CFX18S & CFX18S-8 Non-Powered Subwoofers

Same high performance as the CF18S series only non-powered.

#### • High Power, High Performance Woofers

With 4" voice coils, rigid cast-alloy frames and long throw magnetic structures easily handle 900 Watts of program power.

#### • Built-In Lo-Pass Filter

May be bypassed to allow use of an external electronic crossover.

## TECHNICAL INFORMATION

<b>Sensitivity:</b> CF18S-5 & CF18S-5R: 1.0 V for rated power output CFX18S & CFX18S-8: 96 dB (1W/1m)	<b>Power: CF18S-5 &amp; -5R:</b> 115 V AC or 230 V AC <b>CFX18S:</b> 900 W pgm at 4 Ohms <b>CFX18S-8:</b> 900 W pgm at 8 Ohms
<b>Max. SPL: CF18S-5/5R:</b> 126 dB peak <b>CFX18S &amp; CFX18S-8:</b> 128 dB peak	<b>Connectors: CFX18S:</b> Screw terminals & looping Neutrik 4-pin SpeakOn style connectors
<b>Freq. Resp:</b> 35 Hz to 100 Hz	<b>Hardware:</b> 6-point univ. mtg. hdw. (Metric M10 threads) 35 mm (1 3/8") diameter tripod socket Handles
<b>LF Drivers:</b> CFX18S: 18" model SSL18-9F, 450 W RMS @ 4 Ohms, 900 W pgm  CFX18S-8: 18" model SSL18-10, 450 W RMS @ 8 Ohms, 900 W pgm	<b>Dimensions:</b> 29 1/2" H x 22 1/4" W x 23 1/2" D (75 cm x 56.5 cm x 59.7 cm)
<b>Enclosure:</b> Hardwood, perforated metal grille	<b>Weight:</b> <b>CF18S-5 &amp; -5R:</b> 94.6 Lbs (42.9 Kg) net <b>CFX18S &amp; CFX18S-8:</b> 90.6 Lbs (41.1 Kg) net
<b>Finish:</b> Black paint; white or custom color optional Weather resistant treatment optional	

## PF1-500 DIGITAL AMPLIFIER

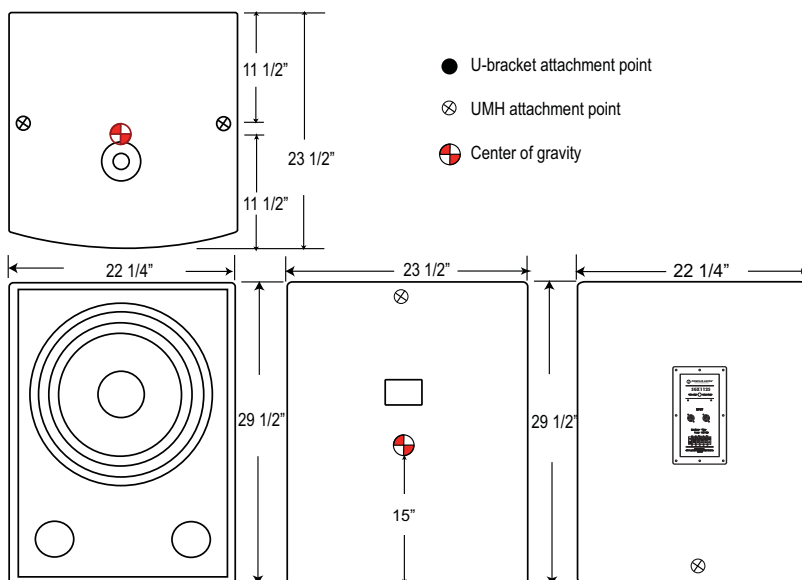
<b>Power:</b> 500 W RMS @ 4 Ohms	<b>Controls:</b> Gain (screwdriver adjustable)
<b>Freq. Resp:</b> +0.0, -5 dB, 20 Hz to 20 kHz	<b>Power Connector:</b> IEC Power connector
<b>THD Distortion:</b> < 0.02% typical	<b>Input:</b> Looping XLR; female in, male out (pin 1 chassis, pin 2 +, pin 3 -)
<b>Hum &amp; Noise:</b> <100 dB (A weighted)	<b>Power:</b> Switchable, 115 or 230 V AC, 50/60 Hz 5 A @ 120 V, 2.5 A @ 240 V Idle current: 400 ma @120 V; 200 ma @ 240 V Max inrush current: 1 A
<b>Damping:</b> >100	
<b>Input:</b> 10K Ohm balanced differential	
<b>Sensitivity:</b> 1.0 V for RPO	
<b>CMR:</b> 74 dB	

## PF1-500R RHAON EMPOWERED AMPLIFIER

The PF1-500R is identical to the PF1-500 except for the addition of the RHAON Network Interface; additional capabilities include:	
<b>Inputs:</b> CobraNet: Dual RJ45 connectors; accept Cat 5 copper cable. AES/EBU: Phoenix connectors; 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.

## 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 CFX18S 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).