

Professional Musician Series

CF350

Three-way Horn Loaded Stage System

System.

Features

- **High Output Capabilities** with over 130 dB SPL maximum output the CF350 provides enough sound pressure- level for virtually all stage performance applications.
- **Complex Equalized Crossover Network** provides smooth transition between drivers in full bandwidth passive operation or simply plug into the low frequency input for easy bi-amp operation.
- **Advanced Forsythe Designed Mid Horn** utilizing a complex two piece molded phasing plug for true flat power response over the critical vocal band.
- **Sets New Standards For Value** by incorporating EAW engineering and design leadership with the latest developments in production efficiency enabling the CF350 to bring "state of the art" performance and legend ary EAW reliability within the reach of every performing musician.

Description

The CF350 brings the smooth response,

low distortion and high output capabilities of EAW's larger horn loaded systems in a slightly smaller package and at a price that is within the reach of all performing musicians. It is intended for use as the main sound reinforcement system for musical performing groups. The use of true horn loading over its entire operating range results in significantly higher efficiency than any competitive system using vented enclosures. Additionally, the advanced Forsythe designed horns exhibit response accuracy greater than most direct radiating systems, eliminating the response peaks that plague all competitively priced horn loaded systems.

The low frequency section of the CF350 consists of an RCF L18/854 380 mm (15-in) driver loaded into a Forsythe designed bent bass horn. The bass horn and cabinet is constructed from 3/4 inch plywood with birch hardwood exterior for excellent resistance to



transport abuse. This material offers better strength-to-weight ratio and sheering resistance than the carpet covered particle board or cheap plywood that is used in competitive systems. This domestic birch faced plywood is considerably less expensive than the imported, cross-grain-laminated birch used in EAW's larger systems and is one of the key elements in keeping this advanced system competitively priced.

The critical vocal mid frequency** band (350 to 3,500 Hz) is the heart of any system as it is where the PM350 clearly excels, even in relation to competitive systems costing many times more. This new Forsythe design utilizes a phasing / displacement throat plug so complex -it must be manufactured in multiple parts and then assembled to achieve the precise driver horn alignment specified in the "state of the art" Forsythe design. The horn flare is constructed of 3 mm imported birch hardwood reinforced with high density polyurethane

foam. The MF1 60 driver boasts a poly laminated cone for exceptionally low distortion at high sound pressure levels.

RCF's N481 compression driver mounted on an H3709 100 degree horizontal coverage horn comprise the CF350's high frequency section. This horn driver combination has proved itself in thousands of professional systems the world over. Its unique combination of high frequency bandwidth and rugged reliability

are the result of its proprietary 44 mm (1.75-in) composite material diaphragm.

The CF350 can be used full range with a single amplifier for applications requiring maximum system performance per dollar. When maximum output is required the CF350 can be easily bi-amplified by simply plugging into the CF350's low frequency input (along with an external electronic crossover and additional amplifier).

CF350 Specifications

Frequency Response

Axial - 10 dB: 50 to 18,000 Hz

Axial +/- 3 dB: 75 to 15,000 Hz

Nominal Coverage Angles

Horizontal: 100 degrees

Vertical: 40 degrees

Sensitivity: 105 dB SPL 1w@1m

Power Handling: 350 Watts AES

Maximum Output: 130 dB SPL

Impedance: 8Ω

Low Frequency Subassembly

Type: Forsythe Designed Polyurethane Reinforced Wood Bent Bass Horn
Driver: RCF L15/854,380 mm (15-in) Cone Driver

Mid Frequency Subassembly

Type: Forsythe Designed Constant Coverage
Horn With Two Piece Phasing Plug
Driver: EAW MF160A, (6.2-in) Poly laminated Cone

High Frequency Subassembly
Type: Compression Driver And Horn
Driver: RCF H3709 Constant Horizontal Coverage Horn
Horn: RCF N481 One Inch Exit Compression Driver, 44mm (1.75-in) voice coil

Crossover Subassembly

Type: Selectable Full Passive or Bi-Amplified
Third Order Internal Passive Crossover
Slopes: Asymmetrical Slopes Equalized For Flat Frequency Response

Maximum Crossover Input Before The Onset Of Distortion: 1000 watts

Additional Descriptive Data

Finish: Black Catalyzed Polyurethane Chemical Coating