TOC™ 360 Series

A NEW PAGE IN CEILING-MOUNT LOUDSPEAKERS

The TOC™ 360 series are high powered coaxial systems in fireproof metal enclosures for installation in plenum or suspended ceilings in large facilities. Their high power capacity and controlled dispersion makes them appropriate in areas with high noise levels and very high ceilings. Each model contains a dividing network with Time Offset Correction (TOC™) optimized for the coaxial driver used. Passive time delay and equalization are used to allow the high and low frequency components to accurately combine for the best transient performance.

PAS has been manufacturing coaxial systems with TOC™ for many years. The transient accuracy of these products enables voices to be intelligible at higher ambient sound levels than those without TOC™. Incorporating this into systems for distributed use brings a new level of performance to paging systems for large facilities.

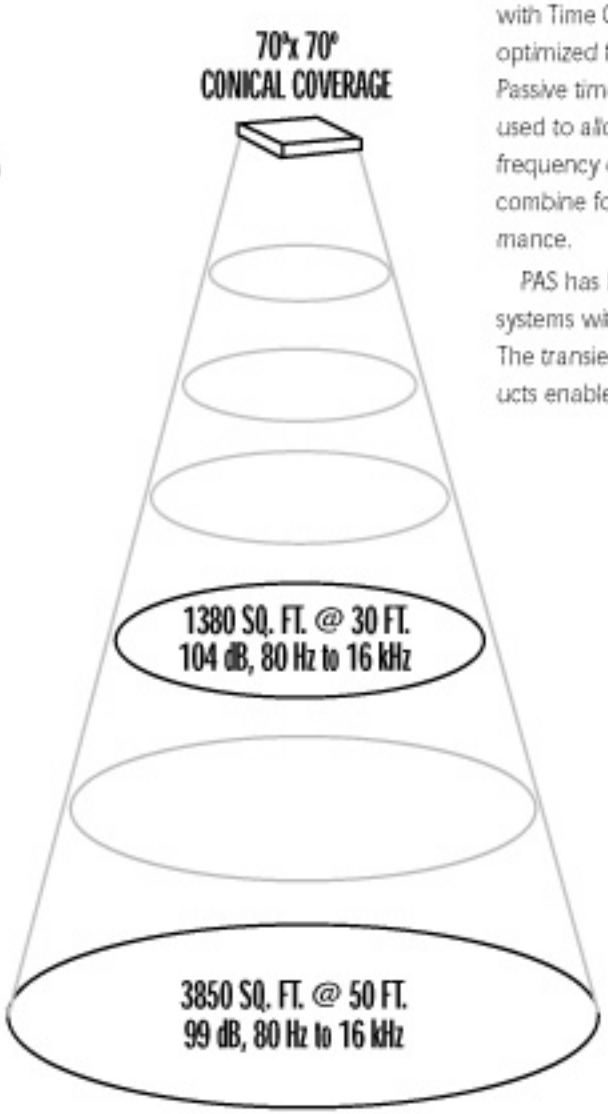
The high frequency coverage angle is a cone with an included angle of 70° at -6 dB. This coverage angle reduces reflections from walls which waste power and are detrimental to intelligibility. In large installations where the ceiling is very high, a moderate coverage angle minimizes overlap of the coverage patterns of adjacent loudspeakers. This reduces articulation loss due to differing arrival times.

High power capacity and sensitivity produces spl peaks of greater than 106 dB at 30 feet or 103 dB at 50 feet.

The TOC™ 360 series comes in metal enclosures constructed of 18 gauge cold rolled steel with walls damped with acoustic fiberboard. They are lined with 1.5" thick glass wool and have conduit knockouts on all four sides. Mounting tabs are on parallel sides to facilitate recessed mounting. Each is supplied with a beveled white metal grille.

All models are available with an optional 200 watt, 70 volt matching transformer.

Transformer Frequency Response:
+/– 2dB @ 50-15,000 Hz



12 CX SPECIFICATIONS

Frequency Response: 80 to 16Hz
Power Rating: *300 watts
Nominal Impedance: 8 ohms
Sensitivity (1w/1m): 100 dB
Maximum SPL: 126 dB @1 meter
Nominal Coverage Angle: 70°
Crossover frequency: 2 kHz
L.F. Driver: 12 inch
H.F. Driver: 1 inch throat
Dimensions: 23" L x 18"W x 12"D
Weight: 54 lbs

15CX SPECIFICATIONS

Frequency Response: 60 to 16Hz
Power Rating: *350 watts
Nominal Impedance: 8 ohms
Sensitivity (1w/1m): 99 dB
Maximum SPL: 125 dB @1 meter
Nominal Coverage Angle: 70°
Crossover frequency: 2 kHz
L.F. Driver: 15 inch
H.F. Driver: 1 inch throat
Dimensions: 29.5" L x 18"W x 15"D
Weight: 91 lbs

22CX SPECIFICATIONS

Frequency Response: 80 to 16Hz
Power Rating: *600 watts
Nominal Impedance: 8 ohms
Sensitivity (1w/1m): 100 dB
Maximum SPL: 128 dB @ 1 meter
Nominal Coverage Angle: 70°
Crossover frequency: 1.4 kHz
L.F. Driver: 12 inch
H.F. Driver: 2 inch throat
Dimensions: 23" L x 18"W x 15"D
Weight: 63 lbs

25CX SPECIFICATIONS

Frequency Response: 50 to 16Hz
Power Rating: *600 watts
Nominal Impedance: 8 ohms
Sensitivity (1w/1m): 99 dB
Maximum SPL: 127 dB @ 1 meter
Nominal Coverage Angle: 70°
Crossover frequency: 1.2 kHz
L.F. Driver: 15 inch
H.F. Driver: 2 inch throat
Dimensions: 29.5" L x 23"W x 15"D
Weight: 96 lbs

Due to limitations of the passive dividing networks the long term average power rating of these products is limited to 200 watts (40 volts into 8 ohms). This in no way affects their transient capabilities. PAS recommends amplifiers that produce at least twice this power (400 watts into 8 ohms) for these cabinets. For the 70 volt option the power rating is limited to the transformer.