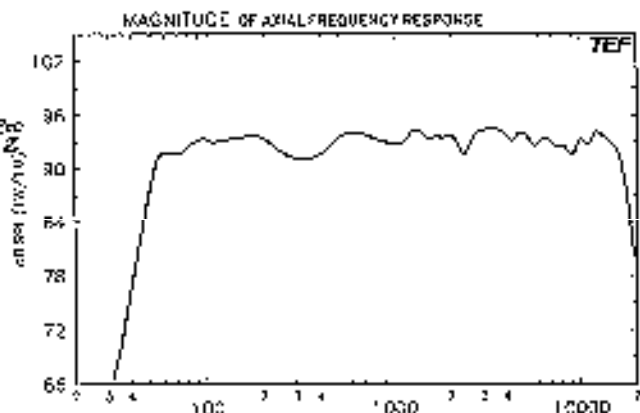


The CAT 46 is a practical implementation of a loudspeaker design philosophy that combines point source origination with controlled directivity. The result is a loudspeaker that is well behaved throughout its output pattern. Meticulous data collection is essential in the design process of all Frazier loudspeakers and is vital in final prototype evaluation. A portion of this information is included as a précis of the CAT 46's characteristics. See the CAT 40 Engineering Bulletin, available upon request, for a comprehensive report on results of other pertinent measurements an engineer may find useful in systems design preparation. Contact the factory or your local Frazier representative for more information on this or any other Frazier product.

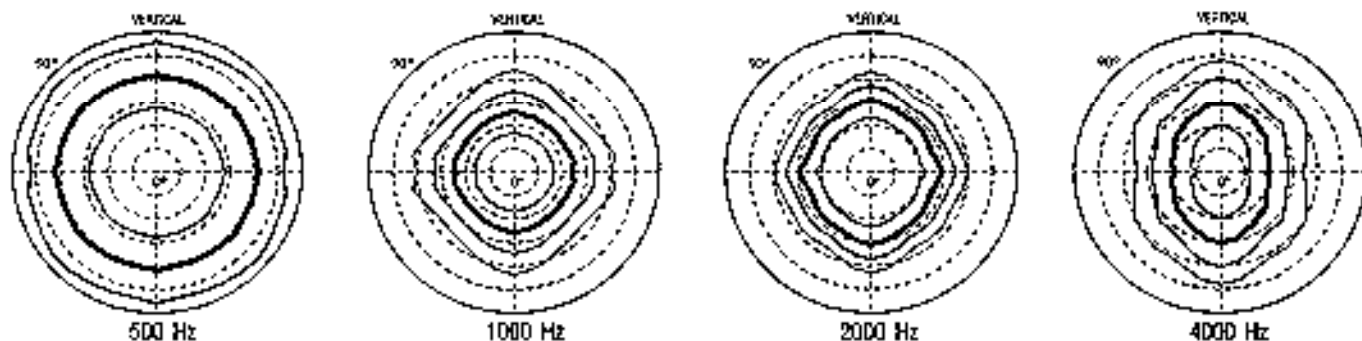
SPECIFICATIONS

Frequency Response	50 Hz - 17KHz
Power Handling	250 Watts (AES) ^{RMS} _{FACTORED}
Sensitivity	93 dB/1W/1M
Impedance	8 Ohms
Beamwidth (2000Hz)	90 x 90
Axial Q (2000Hz)	10.9
Net Weight	85 lbs
Dimensions	31 7/8" x 17 5/8" x 14 1/8" d



POWER CONSIDERATIONS - The power rating method used for this product is an adaptation of that specified by the Audio Engineering Society (AES2-1984).

Frazier loudspeakers are power tested with a full bandwidth pink noise signal that is high pass filtered at the loudspeaker low frequency cut-off. This proves a more stringent method than the AES calls for, but mandates a realistic power rating for full range loudspeaker systems. Each Frazier product should be expected to accept the average power specified, within the bandwidth of the device, continuously without thermal damage or notable compression. Peaks, under the same bandwidth constraint, of at least four times the rated power should not cause mechanical failure.



OCTAVE AVERAGED CONTOURS ARE SHOWN IN 3dB INCREMENTS WITH THE 0dB CONTOUR IN BOLD. THE CONCENTRIC MARKINGS ARE EVERY 15 DEGREES.

ARCHITECTS' AND ENGINEERS' SPECIFICATION

The unit shall be a three way loudspeaker system consisting of a twelve inch woofer and a coincident system for midrange and high frequencies. The coincident system shall employ an eight inch cone driver in a conic horn. A high frequency horn assembly, consisting of a magnetic fluid cooled one inch dome type driver, is mounted inside the larger horn such that both axes are aligned. -- The total system shall produce an amplitude response that is plus or minus 3dB from flat in the frequency range of 50Hz to 17kHz. The off-axis amplitude response shall deviate from flat by no more than plus or minus 6dB over the frequency range 50Hz to 10kHz at any angle less than 45 degrees from the loudspeaker axis. -- The loudspeaker shall be capable of providing 117 dB SPL at a distance of one meter with no more than 250 watts electrical input power. All enclosure walls shall be 5/8" MDF and all wall joints shall be of the lock-miter type. The maximum dimensions shall be 31 1/8 inches in height by 17 5/8 inches in width by 14 1/8 inches in depth. The maximum weight shall be 85 pounds. The loudspeaker system shall be a Frazier CAT 46.

