

## DATASHEETS

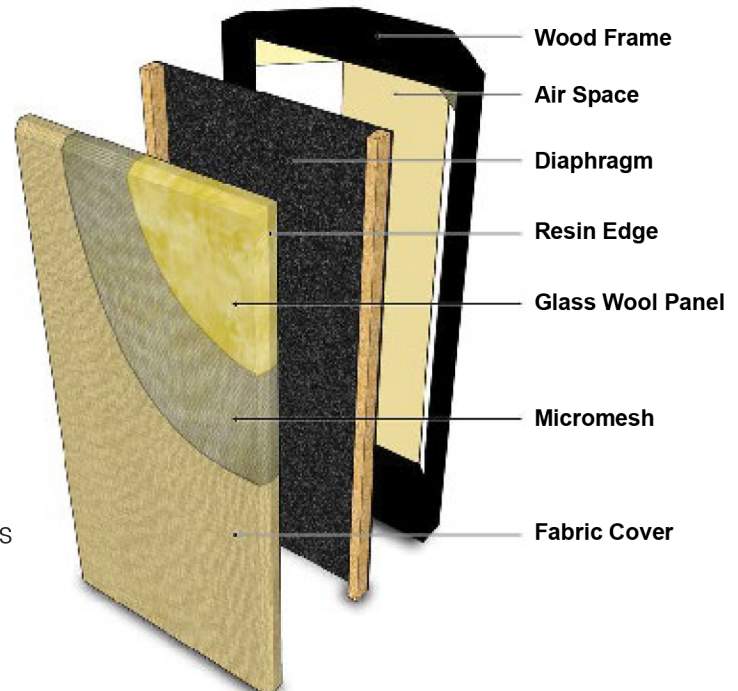
### M-TRAP SPECS

#### INDUSTRIAL & COMMERCIAL NOISE CONTROL SOLUTIONS

The M-Trap is a combination full range absorber and diaphragmatic resonator designed to control all frequencies right down to the deepest bass

This is achieved by combining a full-size high-density glass wool panel (F) with a closed air space behind (B) created by the wood frame (A) to absorb sound below 100Hz. Lower frequencies pass through the front face and then cause the internal diaphragm (D) to resonate. The greater energy contained in low frequencies causes the limp mass diaphragm to naturally migrate to the frequencies where room resonance is most prominent, thereby reducing the effect of powerful room modes.

Made from easy to clean black melamine coated wood composite frame (A), the M-Trap ships flat in kit form to save freight costs and assembles in about fifteen minutes using standard household tools. Once together, the device hangs easily in the corner using supplied French cleats

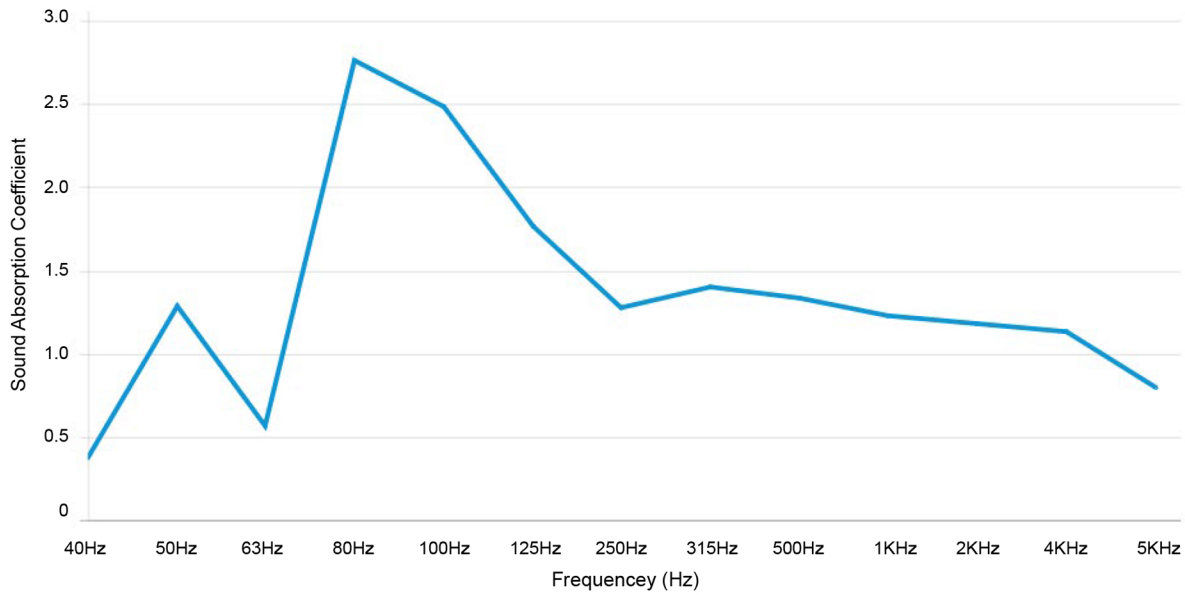


The M-Trap may be ordered in a choice of black, grey or beige fabric covering to suit most color schemes.

## PRODUCT DATA

Frame Material	Black melamine laminated MDF
Dimensions	24" (610mm) x 48" (1219mm) x 19" (See detail dimensions)
Panel Material	Formed, semirigid inorganic glass fibers; Density 6.0 lbs. pcf. (96 kg/m <sup>3</sup> )
Fabric Facing	Acoustically transparent polyester
Diaphragmatic Membrane	Loaded vinyl, 1.0 lbs. per square foot (4.88 Kg/m <sup>2</sup> )
Fabric Color Codes	Black=00, Beige=03, Grey=08
Mounting Hardware	Wall mounting cleat, wood screws and drywall anchors included.

## Absorption Coefficients



Frequency - HZ	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	250Hz	315Hz	500Hz	1KHz	2KHz	4KHz	5KHz
■ MaxTrap	0.37	1.28	0.57	2.76	2.48	1.76	1.27	1.40	1.33	1.23	1.18	1.13	0.80

## ABSORPTION CHARACTERISTICS

\*Due to the broadband nature of the diaphragmatic limp mass used in both the MaxTrap and FullTrap, the device will naturally vibrate at the room's resonant frequency. This will result in greater effectiveness at the peak frequency, in particular when corner mounted. This is clearly demonstrated in the Corner placement Test where the resonant frequency in the laboratory is 80Hz.

