

CVHxM

voice paging horn loudspeaker technical data sheet



key features:

- weather resistant, all metal construction
- 25/70 volt operation
- multiple tap settings
- voice coils can be replaced in field
- two-part swivel mount 360° x 180°

key applications:

- telephone voice paging
- transit stations
- paging in high-noise environments
- one-way and two-way paging

specifications: CVH15M and CVH30M

Voice coil size	1.25" (32mm)
Voice coil material	copper
Sensitivity	107dB @ 1 watt 1 meter, 118dB at max power (CVH15M) 109dB @ 1 watt 1 meter, 122dB at max power (CVH30M)
Max power	15W (CVH15M), 30W (CVH30M)
Nominal dispersion	100° (CVH15M), 110° (CVH30M)
Frequency range	350Hz / 8kHz ± 3db
Tap settings (CVH15M)	25V: 0.48, 0.94, 1.8, 7.5, 15W 70V: 0.9, 1.8, 3.8, 7.5, 15W
Tap settings (CVH30M)	25V: 1.8, 3.7, 7.5, 15W 70V: 1.8, 3.7, 7.5, 15, 30W
Termination type	Covered screw terminal
Max wire gauge	14 AWG
Finish	Aluminum bell Cast aluminum housing Cast aluminum swivel mount

description:

The Convex CVH series reentrant type loudspeakers have been designed to provide a high level of voice intelligibility. CVH reentrant horns are ideal for telephone paging systems. The CVH aluminum horns are weather proof for outdoor use or where resistance to vandalism is a concern. Mounts on two-part cast aluminum 360° x 180° swivel mount. Convex CVHC wire cage guard available to protect the CVH horn when installed in educational institutions.

support hardware:

- CVHC folding protective wire cage
- CVH15MD replacement diaphragm (15W)
- CVH30MD replacement diaphragm (30W)

physical dimensions:

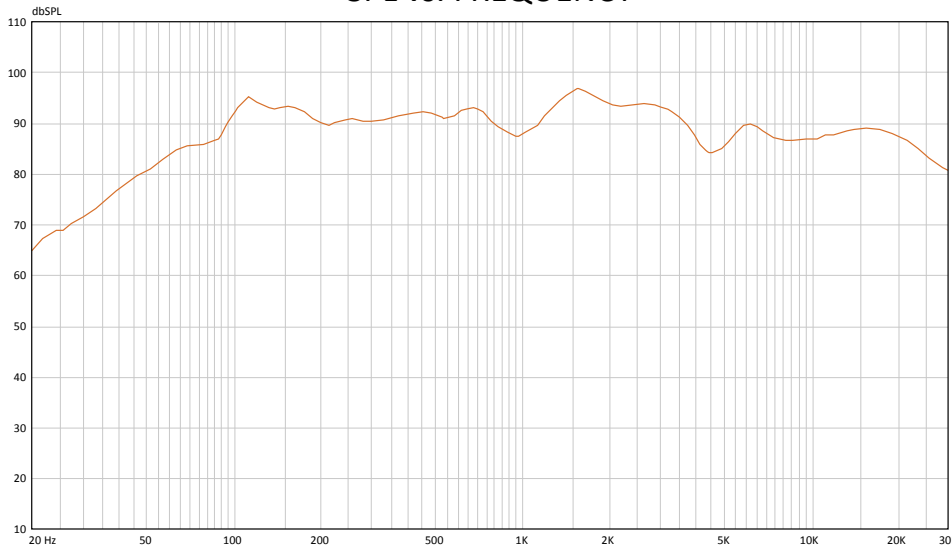
Horn bell diameter	8.6" (218mm) (CVH15M) 10.7" (272mm) (CVH30M)
Height and width	9.13" (232mm) (CVH15M) 10.51" (267mm) (CVH30M)
Net weight	4 lbs (1.8 kg) (CVH15M) 4.6 lbs (2.1 kg) (CVH30M)



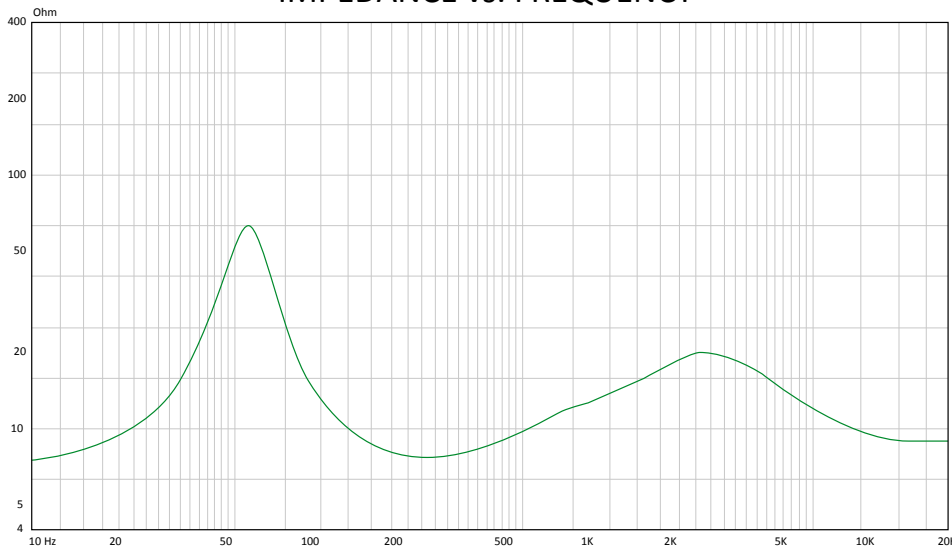
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SPL vs. FREQUENCY



IMPEDANCE vs. FREQUENCY



architect's specification:

The loudspeakers shall be Convex CVH15M reentrant horn speakers or CVH30M where wattages over 15 are required. The horn shall have 25 and 70 volt operation with multi position tap selection switching. Horns must be all-metal construction and approved for outdoor use. Plastic or ABS versions will not be accepted. The horns must have a frequency response of not less than 350Hz to 8kHz \pm 3dB and be capable of producing sound pressure levels not less than 118dB @ 15 watts 1 meter, or 122 dB at 30 watts. The manufacturer must have available replacement diaphragms the horns must be constructed so that these can be replaced in the field.

Convex customer service: 1-800-461-0006

www.convexav.com

Convex audio/video equipment distributed by:

Martech - driving strategic sales

11565 - 149 Street

Edmonton, Alberta, Canada

T5M 1W9

phone: 780-454-2006

www.drivingstrategicsales.com

