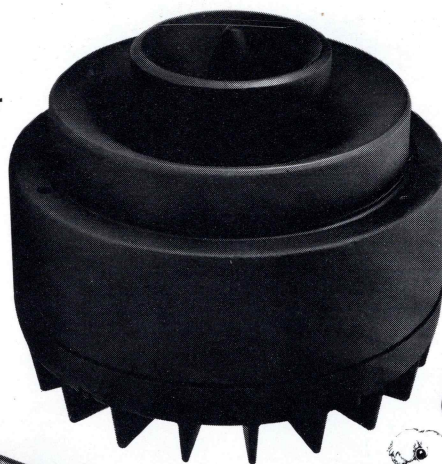


1502 Compression Tweeter



**BIG
TWEETER**



HF4000 Compression Driver

COMPRESSION DEVICES

The HF4000 compression driver, available in either 8 or 16 ohms, is considered by many to be the finest compression driver on the market. Offering wide bandwidth with very low distortion, the HF4000 produces an exceptionally clean sound over a usable frequency response of 500 to 15,000 Hz. Applications include sound reinforcement, disco systems, stage monitors and studio monitors in which clean, clear, non-fatiguing sound is required.

The 1502 Compression Tweeter offers wide bandwidth with low distortion and produces an exceptionally clean sound over a usable frequency response of 2500 to 20,000 Hz. The 8 ohms "Big Tweeter," completes the full Gauss range of loudspeakers for sound reinforcement, studio and stage monitors and allows Gauss to offer a complete, "systems approach" to professional sound reinforcement for concert, disco and monitoring applications.



Available in 8 ohm model.
1½" voice coil. Aluminum diaphragm. Usable frequency response 4000 to 20,000 Hz.

1502 COMPRESSION TWEETER

Nominal Impedance	8 ohms
Power Capacity, RMS	30W
Sensitivity 1mW 30ft	62 db
Frequency Range	4k to 20kHz
Lowest Recommended Crossover	4kHz
Overall Mouth Diameter	4.6"
Voice Coil Diameter	1.5"
Voice Coil Material	Aluminum
Magnetic Assembly Weight	6 lbs.
Baffle hole Diameter	4.83"
Overall Diameter	6.64"
Dispersion Pattern	90 Degrees—Conical
Projection in front of panel*	2.25"
Depth Behind Panel*	2"
Flux Density	20,000 Gauss
Weight	9 lbs. max

*With Unit Back Mounted to ¾" baffle.

Available in either 8 or 16 ohm models. 4½" voice coil. Aluminum diaphragm. Usable frequency response 500 to 15,000 Hz.

HF 4000 COMPRESSION DRIVER

Power capacity—continuous RMS	(crossover 500 Hz min. @ 12 dB/octave min.) (crossover 800 Hz min. @ 12 dB/octave min.)
40 watts	
60 watts	
Rated impedance	8 or 16 ohms
R _d c 5 ohms (8 ohm version)	10 ohms (16 ohm version)
Sensitivity 1 mW input	118 db on 1" terminated tube
Usable frequency response	15,000 Hz
Lowest recommended crossover frequency	500 Hz
Throat diameter	1.9" (4.83 cm)
Horn mounting requirement	4x¼ — 20x⅝ bolts
Voice coil diameter	4½" (10.48 cm)
Voice coil material	Edgewound aluminum
Flux density	20,000 Gauss
Magnet material	Alnico V
Diameter	7" (17.78 cm)
Depth	5.71" (14.5 cm)
Net weight	29.5 lb. (13.38 Kg)
Shipping weight	31 lb. (14.06 Kg)

See last page for application notes.

gauss

The Sound Investment.

At Gauss, we manufacture the finest, most reliable loudspeakers available. They provide thoroughly proven, superior sound for any professional requirement. Sound reinforcement. Musical instrument amplification. Studio.

Our manufacturing process and costly high-demand testing mean that more goes into a Gauss loudspeaker. The results are more pure sound output per dollar invested, greater value and long-term reliability. What more could the pros on stage or backstage ask for? Gauss—the sound investment.

LOUDSPEAKERS	10"		12"		15"		
	3181D/3161D	3184D/3164B	3281/3261	4280	4281/4261	3540/3580	3581
Diameter: Voice Coil/Frame	3"/10"	3"/10"	3"/12"	4 1/8"/12"	4 1/8"/12"	3"/15"	3"/15"
Nominal Impedances	8, 16 Ohms	8, 16 Ohms	8, 16 Ohms	8 Ohms	8, 16 Ohms	4, 8 Ohms	8 Ohms
Nominal Application	Ext. High	Mid-Bass	Ext. High	Bass	Ext. High	Bass	Ext. High
On-Axis Bandwidth	50-6,000 Hz	40-3,000 Hz	40-6,000 Hz	45-3,000 Hz	45-6,000 Hz	35-3,000 Hz	40-6,000 Hz
Rated Power**	150 Watts	150 Watts	150 Watts	400 Watts	300 Watts	200 Watts	200 Watts
Flux Density in Gauss	13,500	13,500	13,500	12,000	12,000	13,500	13,500
dB Sensitivity: Metric/EIA	102/53	96/47	102/53	97/48	100/51	101/52	103/54
Displacement: Linear (Xmax)	±.040"	±.065"	±.040"	±.090"	±.040"	±.065"	±.040"
Maximum	±.165"	±.200"	±.165"	±.215"	±.165"	±.200"	±.165"
Free Air Resonance (Fs)	45 Hz	37 Hz	43 Hz	38 Hz	55 Hz	25 Hz	29 Hz
Highest Recommended Xo	2,500 Hz	2,500 Hz	1,500 Hz	1,500 Hz	2,500 Hz	1,200 Hz	1,200 Hz
Thiele-Small Parameters:							
Qms	2.0	1.9	2.6	2.1	2.3	2.7	1.73
Qes	.28	.16	.28	.21	.33	.17	.22
Qts	.24	.14	.26	.20	.28	.16	.19
Vas	1.0	1.12	5.2	3.4	2.0	15.5	15.8
D.C. Resistance (Re)	5.8, 11.4 Ohms	5.9, 11.5 Ohms	6.0, 11.0 Ohms	6.7 Ohms	7.0, 13.5 Ohms	3.4, 6.1 Ohms	6.1 Ohms
Baffle Opening: Front Load	8 31/32"	8 31/32"	11"	11"	11"	14"	14"
Rear Load	8 31/32"	8 31/32"	10 3/4"	10 3/4"	10 3/4"	13 3/4"	13 3/4"
Depth	5"	5"	5 1/2"	6 1/2"	6 1/2"	6 1/4"	6 1/4"
Net Weight	15 1/2 lbs.	15 1/2 lbs.	17 1/4 lbs.	23 1/2 lbs.	23 1/2 lbs.	18 1/4 lbs.	18 1/4 lbs.
Professional Net Price	\$195.00	\$195.00	\$205.00	\$250.00	\$250.00	\$220.00	\$220.00

LOUDSPEAKERS	15"				18"		
	4580/4560	4582/4562	4583A	4583F	3840/3880	4882	4843A/4883A
Diameter: Voice Coil/Frame	4 1/8"/15"	4 1/8"/15"	4 1/8"/15"	4 1/8"/15"	3"/18"	4 1/8"/18"	4 1/8"/18"
Nominal Impedances	8, 16 Ohms	8, 16 Ohms	8 Ohms	8 Ohms	4, 8 Ohms	8 Ohms	4, 8 Ohms
Nominal Application	Bass	Horn Loading	Ext. Bass	Ext. Bass	Bass	Horn Loading	Ext. Bass
On-Axis Bandwidth	30-2,500 Hz	40-3,500 Hz	30-2,500 Hz	30-1,200 Hz	30-2,500 Hz	30-3,000 Hz	20-2,500 Hz
Rated Power**	400 Watts	400 Watts	400 Watts	300 Watts	200 Watts	400 Watts	400 Watts
Flux Density in Gauss	12,000	12,000	12,000	12,000	13,500	12,000	12,000
dB Sensitivity: Metric/EIA	98/47	100/51	97/48	97/48	101/52	102/53	97/48
Displacement: Linear (Xmax)	±.090"	±.040"	±.250"	±.250"	±.065"	±.040"	±.250"
Maximum	±.215"	±.165"	±.375"	±.375"	±.200"	±.165"	±.375"
Free Air Resonance (Fs)	31 Hz	34 Hz	31 Hz	22 Hz	22 Hz	33 Hz	21 Hz
Highest Recommended Xo	800 Hz	1,200 Hz	800 Hz	800 Hz	500 Hz	500 Hz	500 Hz
Thiele-Small Parameters:							
Qms	2.3	2.1	2.5	1.9	3.0	2.1	2.0
Qes	.26	.24	.33	.22	.23	.27	.32
Qts	.23	.21	.30	.20	.22	.24	.27
Vas	7.0	8.8	10.0	16.0	21.0	15.0	22.0
D.C. Resistance (Re)	6.8, 13.5 Ohms	6.7, 13.4 Ohms	5.2 Ohms	5.2 Ohms	3.5, 6.1 Ohms	6.7 Ohms	2.6, 5.2 Ohms
Baffle Opening: Front Load	14"	14"	14"	14"	16 5/8"	16 5/8"	16 5/8"
Rear Load	13 3/4"	13 3/4"	13 3/4"	13 3/4"	16 3/8"	16 3/8"	16 3/8"
Depth	7 1/2"	7 1/4"	7 1/4"	7 1/4"	7 3/4"	8 5/8"	8 5/8"
Net Weight	25 lbs.	25 lbs.	25 lbs.	25 lbs.	19 1/4 lbs.	25 1/2 lbs.	25 1/2 lbs.
Professional Net Price	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$360.00	\$360.00

HIGH FREQUENCY DRIVERS

	1502	2080	2081	4080/4060	4081/4061
Diam.: Voice Coil/Throat	1 1/2"	2 1/1"	2 1/1"	4 1/8"/1.9"	4 1/8"/1.9"
Diaphragm Material	Aluminum	Aluminum	Phenolic	Aluminum	Phenolic
Nominal Impedance	8 Ohms	8 Ohms	8 Ohms	8, 16 Ohms	8, 16 Ohms
D.C. Resistance (Re)	3.2 Ohms	4.7 Ohms	4.7 Ohms	5, 10 Ohms	5, 10 Ohms
Usable Frequency Resp.	2,500-20,000Hz	800-18,000Hz	500-15,000Hz	500-15,000Hz	300-12,000Hz
Rated Power:**	30 W				
@ 500 Hz Xo:		25 W	40 W	40 W	100 W
@ 800 Hz Xo:		40 W	60 W	60 W	
@ 1,200 Hz Xo:		19,000	19,000	19,000	19,000
Flux Density in Gauss	20,000				
dB Sensitivity:					
Metric*	111				
1MW on 1" Terminated Tube		119	119	119	118
Diameter	6"	6 7/8"	6 7/8"	9 3/4"	9 3/4"
Depth	5"	3 7/8"	3 7/8"	5 3/8"	5 3/8"
Net Weight	8 lbs.	15 1/2 lbs.	15 1/2 lbs.	34 lbs.	34 lbs.
Professional Net Price	\$230.00	\$285.00	\$285.00	\$430.00	\$430.00

* (TYP) Metric sensitivity: 1 W, 1 M averaged swept sine wave over usable bandwidth (subtract 49dB for EIA rating).

** All power ratings given: W = (Vrms)²/Z. For product comparison, program power may be considered as 2 to 4 times "RMS" rating.

Cetec Gauss is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications may therefore differ from those listed.

