ZENITH





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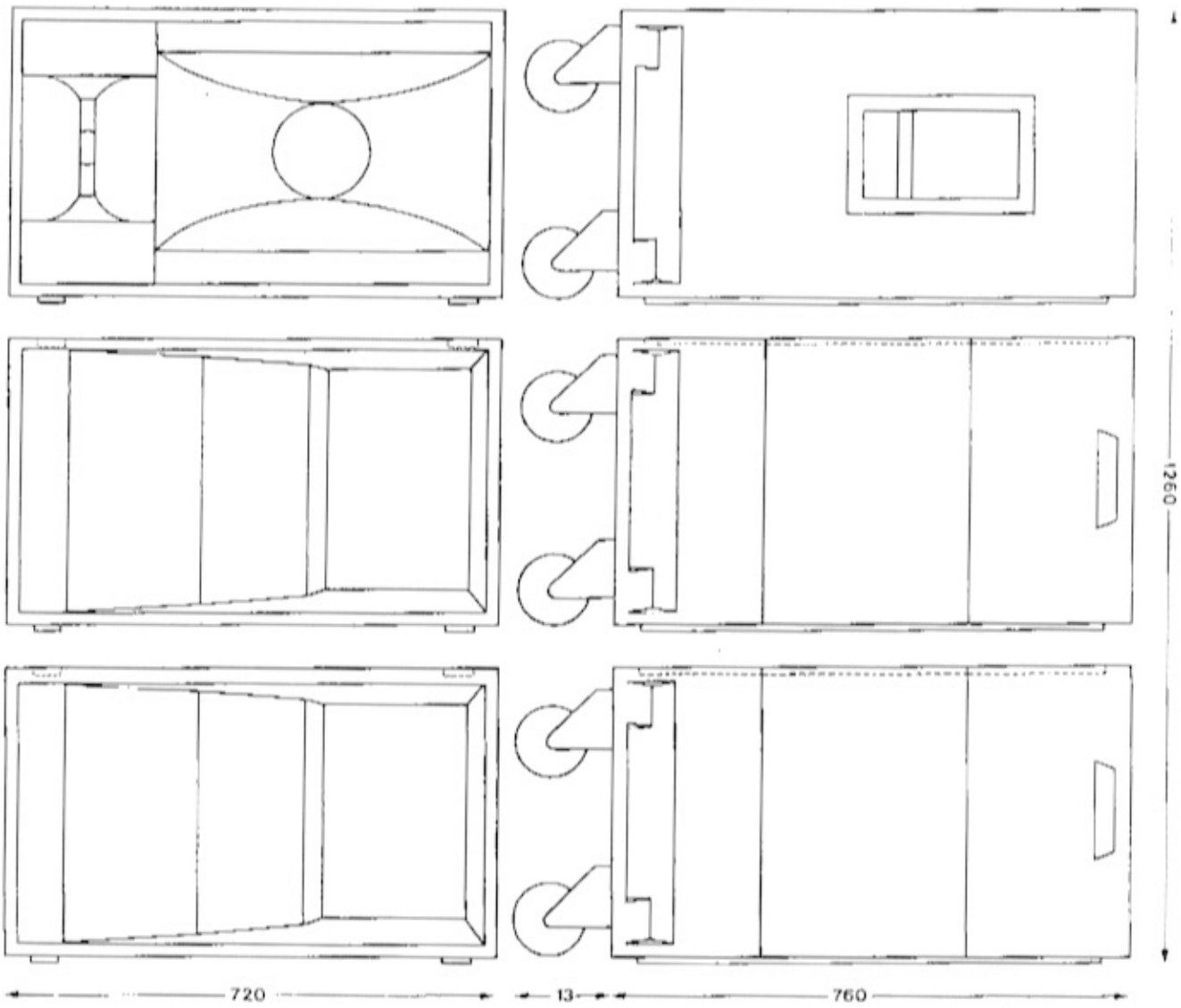
Z.I. MITRY COMPANS

ZENITH



PRESENTATION

The ZENITH is a modular high-power system for live sound reinforcement designed to fulfill a combination of highly demanding criterions :

- Very high available S.P.L.
- Reliability under any circumstances
- Ease of use
- Linearity
- Directivity control
- Very high sound quality
- Compact size
- Sheer ergonomy.

The ZENITH system fully satisfies these criterions, thus allowing a complete standerdization of the front house equipment.

In any specific use, the ZENITH system guarantees to the user a level of quality and safety which were, so far, only possible with specific-purposed and highly sophisticated fixed installation.

A few examples of uses :

- Flown clusters
- Outdoors front houses
- Theaters reinforcement
- Very high level side fill
- Sound for cinemas
- etc...

DESCRIPTION

Bi-amplified modular system comprising
1 Mid-high enclosure
2 or 3 B.Z. Bass enclosures
active crossover at 250 HZ (4th order Linkwitz-Riley function)
passive crossover at 2 KHZ (4th order)

• Size

Mid-high enclosure

H	425 mm	17 1/3"
W	720 mm	28 1/3"
D	760 mm	30"
Weight	72 kg	159 Lb

BZ Bass enclosure

H	425 mm	17 1/3"
W	720 mm	18 1/3"
D	760 mm	30"
Weight	40 kg	88 Lb

• Construction

18 MM and 15 MM finnish birch plywood rabbeted, screwed and sealed with marine glue.

COMPONENTS

H.F.

2" Titanium diaphragm compression driver loaded with constant directivity 90° x 30° wooden horn.

Frequency range	2 KHZ – 20 KHZ
Impedance	8 OHMS
Sensitivity	112 dB/1W/1M

Midrange

12" cone driver loaded with a horn & phase plug assembly.

Directivity	90° x 40°
Frequency range	250 HZ – 2 KHZ
Impedance	8 OHMS
Sensitivity	112 dB/1W/1M
Power handling of the Mid-high cabinet	300 Watts

Bass

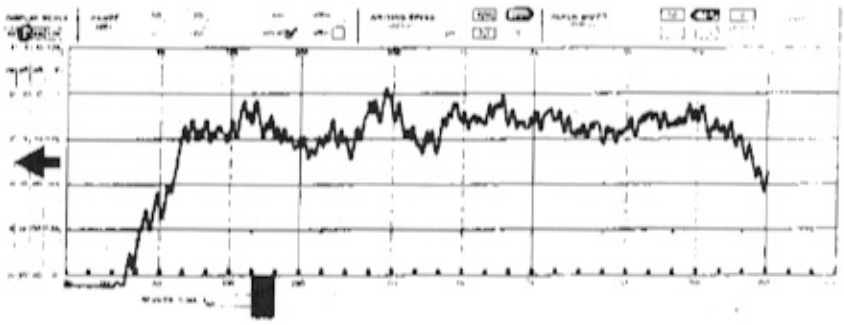
2 or 3 BZ cabinets, each comprising
1 x 15" cone driver, loaded with a hyperbolic born

Frequency range	45 HZ – 250 HZ
Impedance	8 OHMS for each BZ cabinet

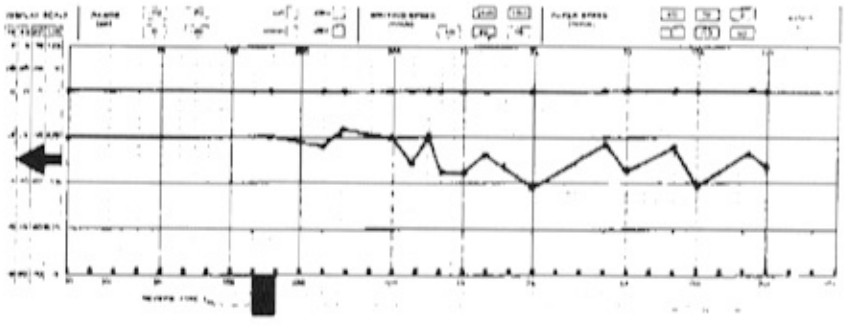
	Sensitivity	Power Handling	Impedance	Maximum continuous SPL
1 BZ	103 dB/1W/1M	400 Watts	8 OHMS	Not recommanded
2 BZ	109 dB/2W/1M	800 Watts	4 OHMS	135 dB/1M
3 BZ	112 dB/3W/1M	1200 Watts	2.8 OHMS	138 dB/1M

FREQUENCY RESPONSE

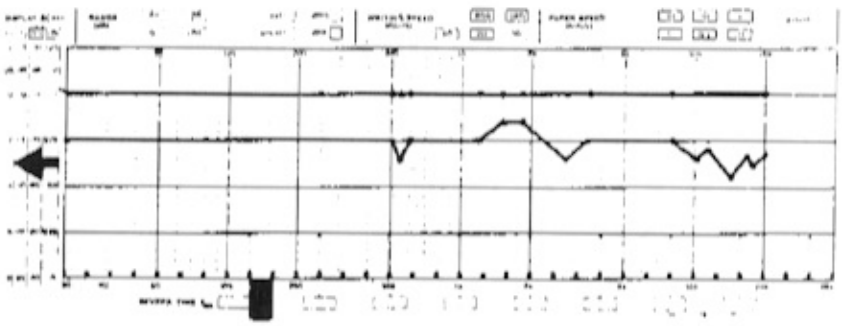
Overall response in semi-reverberant field



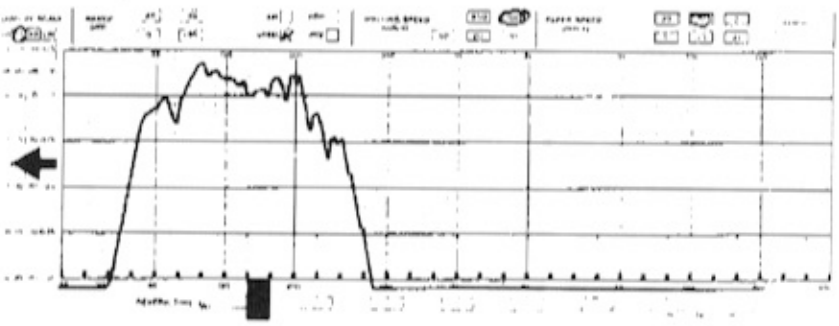
45° off axis response deviation W.R.T. on axis response, as measured in the same horizontal plane



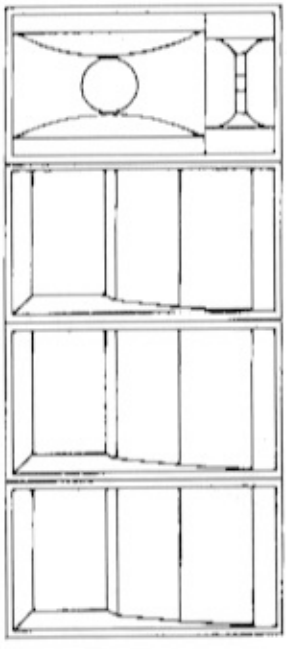
15° off axis response deviation W.R.T. on axis response, as measured in the same vertical plane



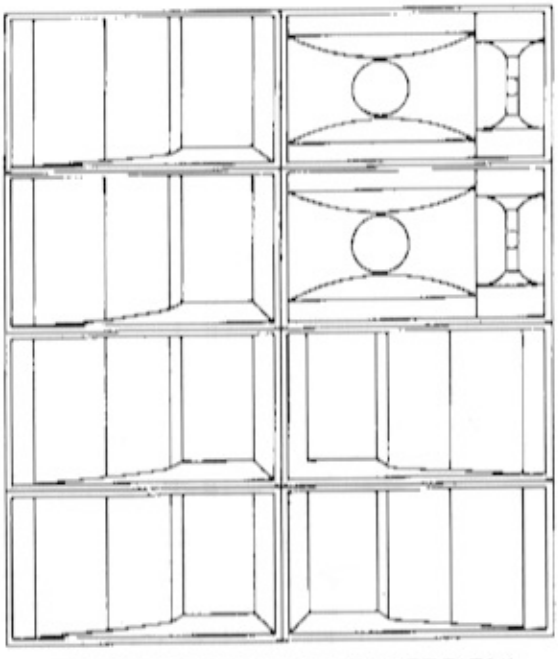
Near-field response of Bass section (2 B.Z.)



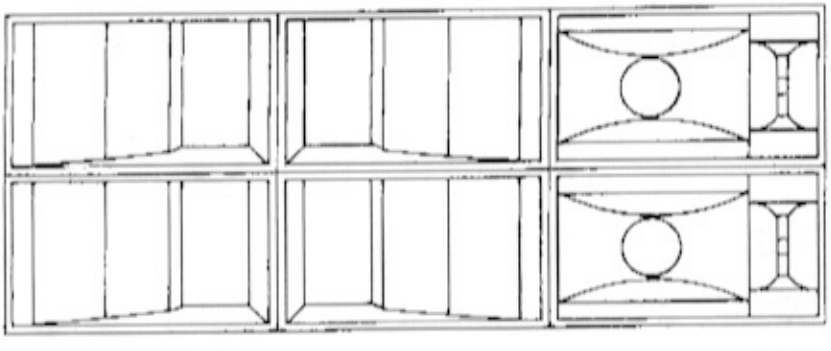
EXAMPLES OF ZENITH STACKS



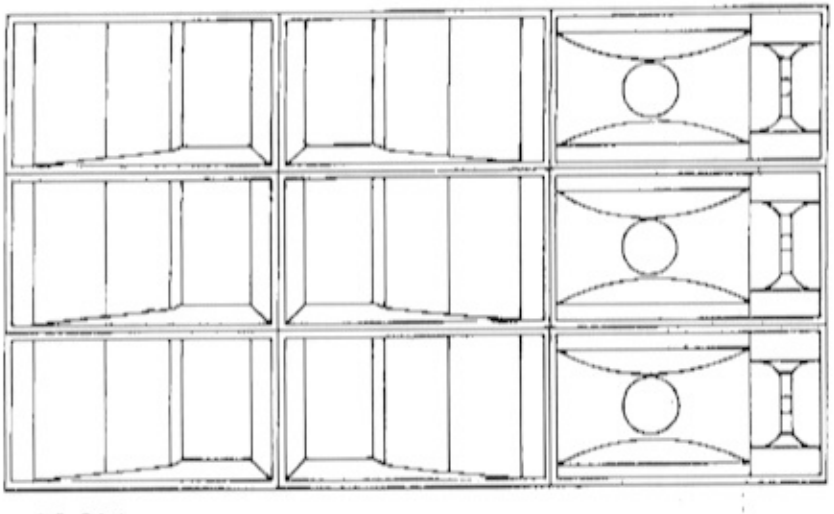
1 ZENITH SYSTEM (3 BZ VERSION)



2 ZENITH SYSTEMS (3 BZ VERSION)



2 ZENITH SYSTEMS (2 BZ VERSION)



3 ZENITH SYSTEMS (2 BZ VERSION)

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EXAMPLE OF ZENITH CLUSTER

