



**HF AND MB/HF MODELS
LOUDSPEAKER SELECTION MATRIX,
CENTRAL/PRIMARY LOUDSPEAKER SOURCE**

Reverb Time	SPL	LF Extension	Concert Cool Factor	Model
High	Very high	Full speech/music	Yes	MH6040, etc.
		Speech		MTH-4.5's
	High plus	Speech		MH640C/PI640C, etc. (PI Modular)
	High	—	No	HP6040 etc.
Medium	Very high	Speech	Yes	MTH-2.5's
	High plus	Full Music		DMS-1183/64
	High	—	No	HP64,0 etc.
Low	High	Full speech	Yes	DMS-1122/85
		Full music		DMS-1152/64
	Moderately high	—	No	HP64 etc.
		Full speech/music	Some	PI Matrix 12's
		Full music		PI Matrix 15's
	Moderate	Full speech/music	No	Sx200/FR200
		Low	Full speech/music	No
Low	Full speech/music	No	S-40/S-60/S-80	

Mark IV Audio North America

Then consider . . .

***Proximity to stage**

***Bass augmentation (subwoofers)**

***Price**

***Size**



**LF MODELS
LOUDSPEAKER SELECTION MATRIX
CENTRAL/PRIMARY LOUDSPEAKER SOURCE**

LF Extension	SPL	Concert Cool Factor	Model
Full speech/music (80 Hz)	Moderate	No	TL12-1
Full music (50 Hz)	High plus	Yes	PI115L (PI Modular)
	High	No	TL15-2 ¹
	Moderately high	No	TL15-1
	Moderate	No	TL12-1E
		Maybe	Sb120
Rock sub (40 Hz)	Very high	Yes	MTL-4/MTL-2
	High plus	Yes	DMS-1181
		No	TL550D ¹
	High	No	TL606DW ¹
Cinema sub (30 Hz)	High plus plus	No	TL880D
	Moderately high	No	TL3512

Mark IV Audio North America

1. When used as primary low-frequency source (crossover 500-800 Hz), stacked dual woofers limit vertical coverage angle for:

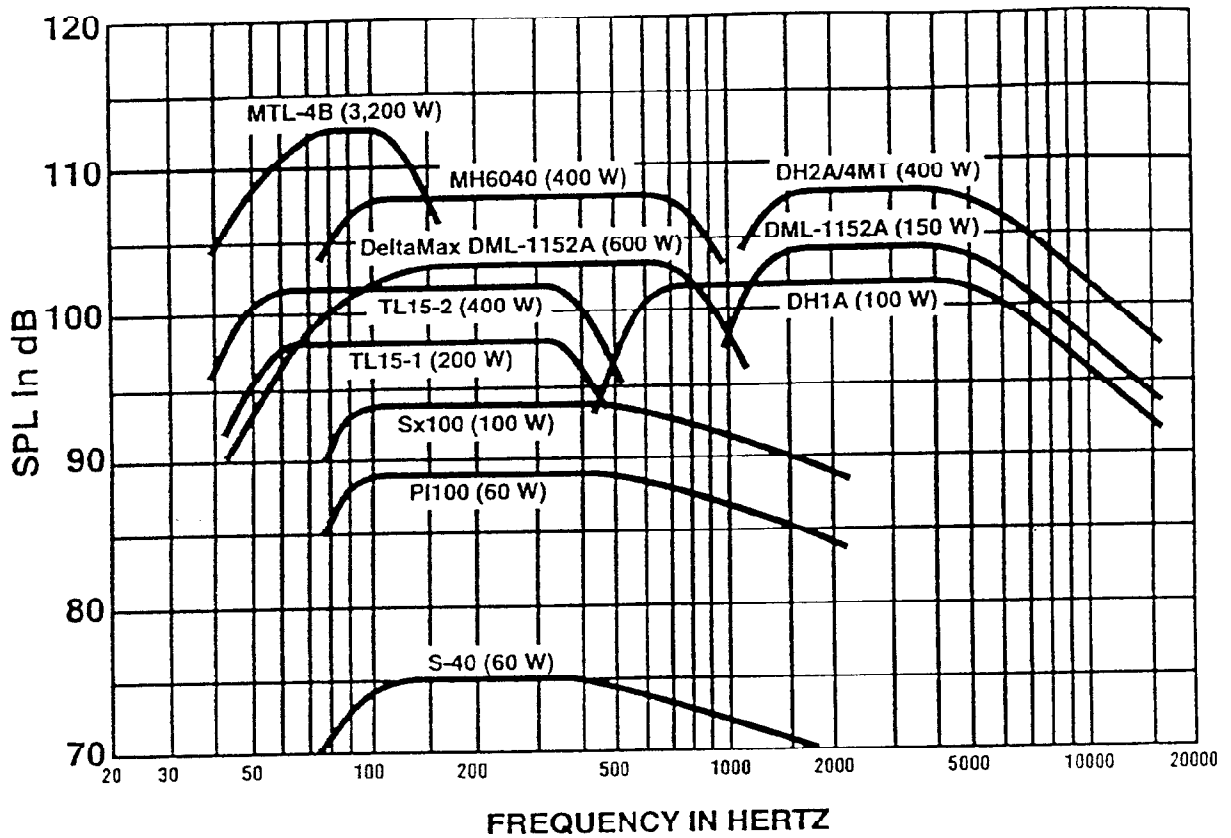
- A. Higher intelligibility in reverberant environments.
- B. Less spillover onto any microphones located under the systems.

Then consider . . .

***Reverb time
*Price**

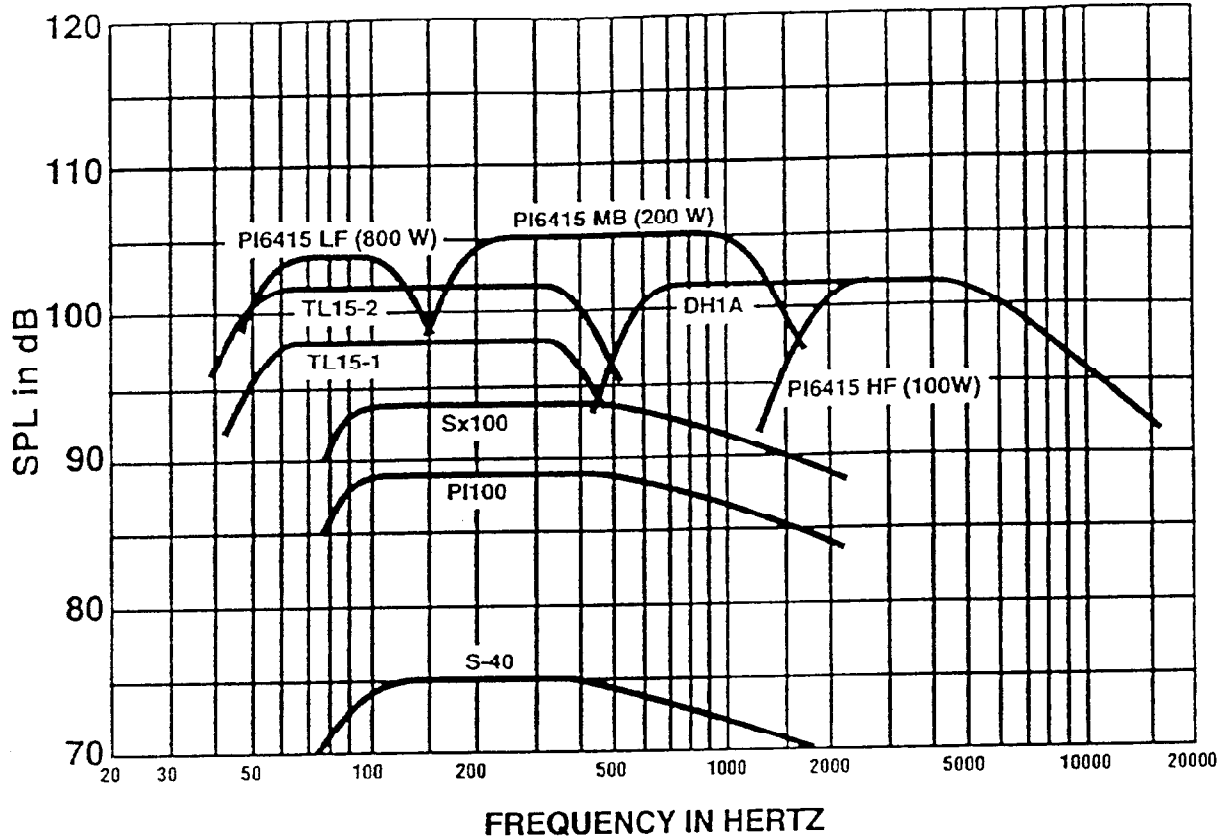
***Proximity to stage
*Size**

SORTING SPEAKERS BY OUTPUT I



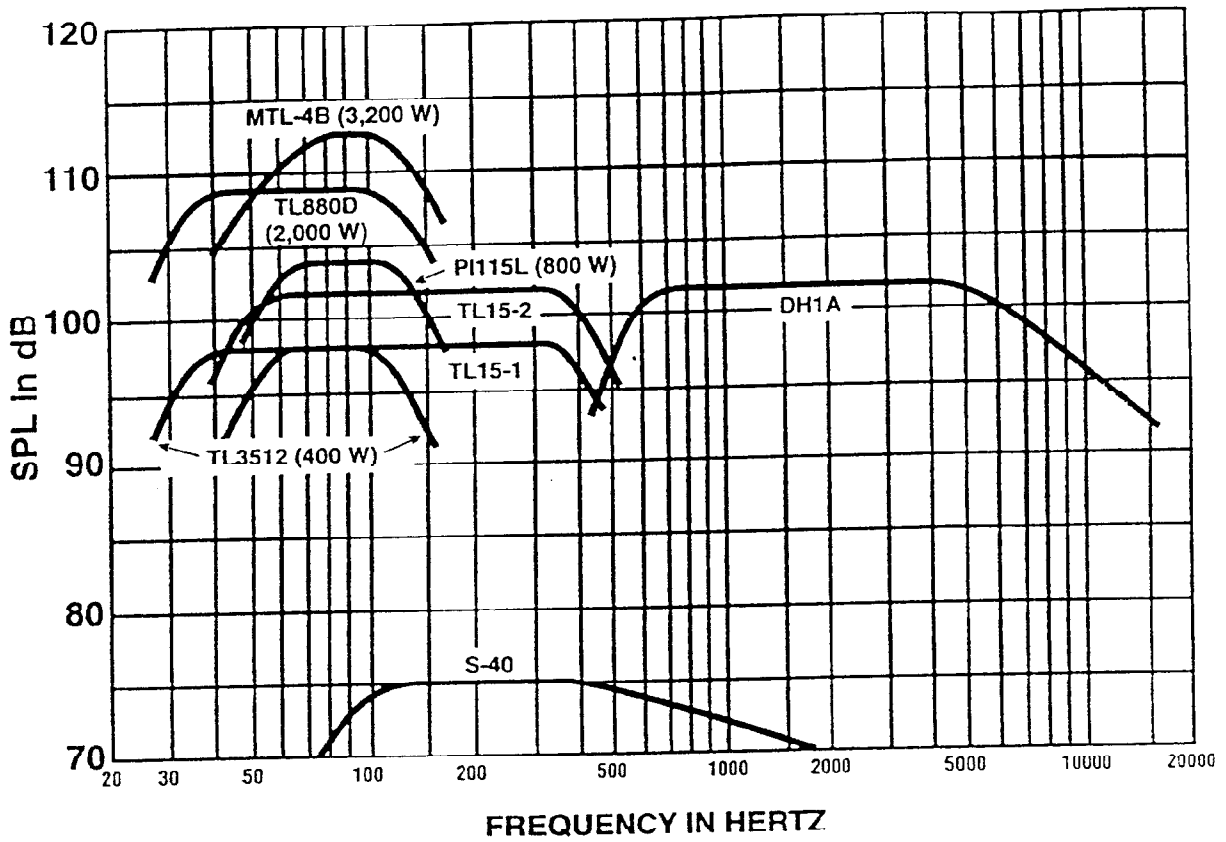
**MAXIMUM REVERBERANT-FIELD SPL IN
MEDIUM-SIZE AUDITORIUM
(R=15,000 ft², indicated amp size, 10-dB crest factor)**

SORTING SPEAKERS BY OUTPUT II



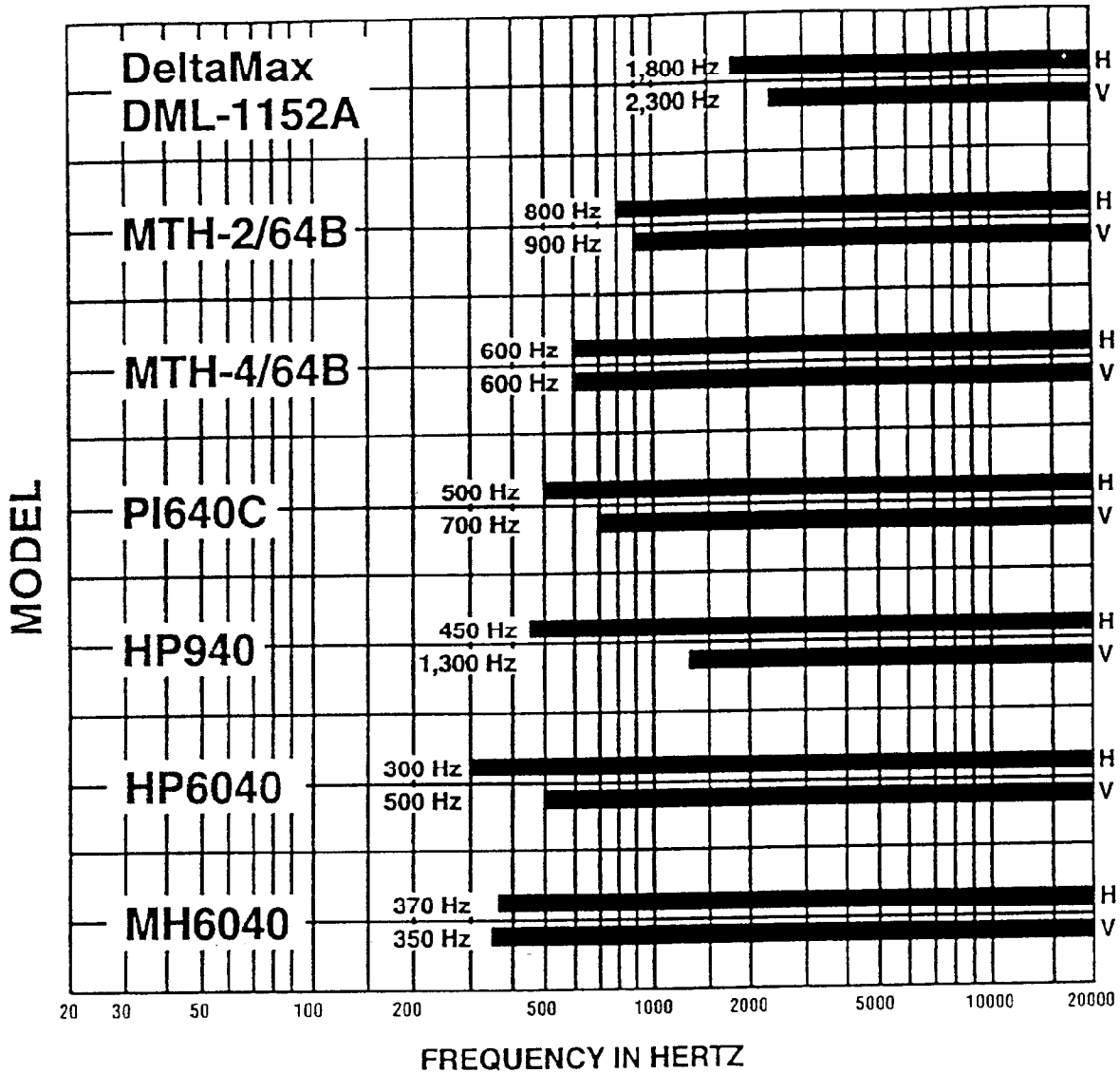
**MAXIMUM REVERBERANT-FIELD SPL IN
MEDIUM-SIZE AUDITORIUM
(R=15,000 ft², indicated amp size, 10-dB crest factor)**

SORTING SPEAKERS BY OUTPUT III



MAXIMUM REVERBERANT-FIELD SPL IN
MEDIUM-SIZE AUDITORIUM
(R=15,000 ft², indicated amp size, 10-dB crest factor)

SORTING SPEAKERS BY COVERAGE CONTROL



**LIMIT OF COVERAGE CONTROL,
SELECTED 60°x40° HORNS AND SYSTEMS
(lowest frequency at which 6-dB-down
beamwidth expands to + 25% of normal)**