

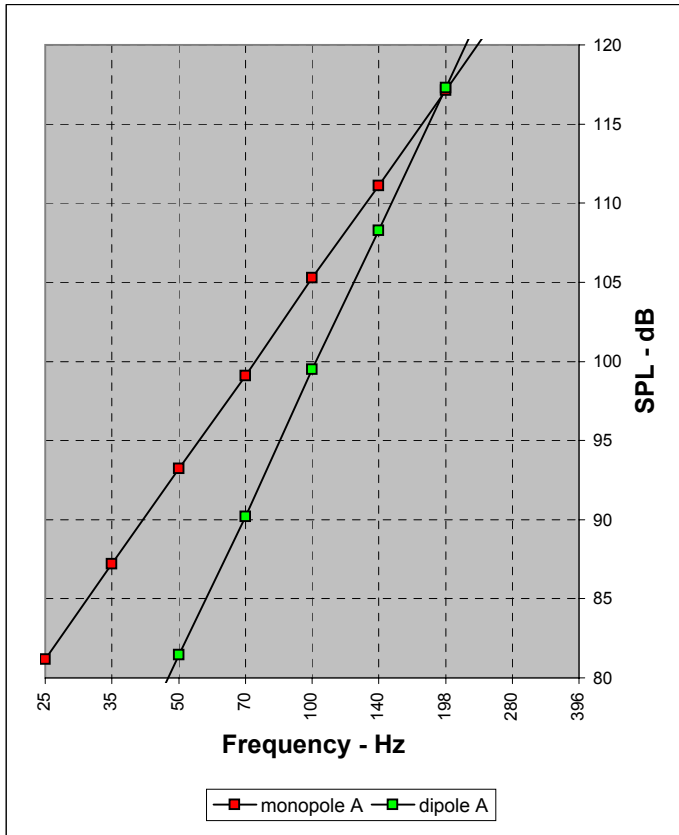
This diagram shows the SPL at 1m (on axis) for an ESL driven to max. Excursion

open baffle - 1 m afstand - on axis

width of diafragma =	22	cm
height of diafragma=	180	cm
peak displacement=	0,7	mm
width of stator=	30	cm

effect. Radiating surface $S_d =$ **3960** cm^2
 peak displacement $X_{max} =$ **0,7** mm
 width of ESL $D =$ **300** mm
 effectieve dia $d =$ 710 mm
 Volume displacement $V_{pp} =$ 277 cm^3
 SPL dipole=SPL monopole at $F_{equal} =$ 194 Hz
 SPL (at F_{equal}) = 117 dB
 Monopole SPL at 35 Hz = 87 dB
 Dipole SPL at 35 Hz = 72 dB

frequentie Hz	mono A dB SPL	dipole A dB SPL
25	81	63
35	87	72
50	93	81
70	99	90
100	105	100
140	111	108
198	117	117
280	123	126
396	129	135



(derived from a similar spreadsheet conceived by S. Linkwitz)