



Nearfield / farfield behavior Alcons QB363 *

no. of QB363	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
array length in m.	1,00	2,00	3,00	4,00	5,00	6,00	7,00	8,00	9,00	10,00	11,00	12,00	13,00	14,00	15,00	16,00	17,00	18,00	19,00	20,00
25Hz	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	2,2	3,9	5,3	6,7	8,2	9,6	11,2
32Hz	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	1,9	3,4	4,9	6,3	7,8	9,3	11,0	12,7	14,5	16,4
40Hz	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	1,8	3,3	4,7	6,2	7,8	9,4	11,2	13,1	15,1	17,2	19,5	21,8
50Hz	no cyl	no cyl	no cyl	no cyl	no cyl	no cyl	1,1	2,7	4,1	5,6	7,2	9,0	10,9	12,9	15,1	17,5	19,9	22,6	25,4	28,3
63Hz	no cyl	no cyl	no cyl	no cyl	no cyl	1,6	3,0	4,5	6,2	8,0	10,0	12,2	14,6	17,1	19,9	22,8	26,0	29,3	32,8	36,5
100Hz	no cyl	no cyl	no cyl	1,3	2,8	4,5	6,5	8,7	11,3	14,1	17,3	20,7	24,5	28,6	32,9	37,6	42,5	47,8	53,3	59,2
125Hz	no cyl	no cyl	0,8	2,2	4,0	6,0	8,5	11,3	14,5	18,1	22,0	26,3	31,0	36,1	41,5	47,3	53,5	60,1	67,0	74,3
160Hz	no cyl	no cyl	1,6	3,3	5,5	8,1	11,2	14,8	18,9	23,5	28,5	34,0	40,0	46,5	53,5	60,9	68,8	77,2	86,1	95,5
200Hz	no cyl	0,7	2,2	4,4	7,1	10,4	14,3	18,8	23,9	29,6	35,9	42,8	50,3	58,4	67,1	76,4	86,3	96,8	108	120
250Hz	no cyl	1,1	3,0	5,7	9,04	13,2	18,0	23,7	30,0	37,2	45,0	53,7	63,0	73,2	84,0	95,7	108	121	135	150
315Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
400Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
500Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
630Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
800Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1.000Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1.250Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1.600Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2.000Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2.500Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3.150Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4.000Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5.000Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6.300Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8.000Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
10.000Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
12.500Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
16.000Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
20.000Hz	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

* "Fresnel" area, or "Near field": area where SPL drops off 3dB per doubling of the distance

"Fraunhofer" area, or "Far field": area where SPL drops off 6dB per doubling of the distance