

ESTIMATION GUIDELINES FOR FISH TRANSPORT

GENERAL GUIDELINES FOR THE NUMBER OF MBD DIFFUSERS REQUIRED FOR FISH TRANSPORT

Tank Vol m ³	Fish loading density (kg/m ³):														
	80	90	100	110	120	130	140	150	160	170	180	190	200	225	250
	Oxygen Requirements, (lpm):														
1	0.9	1.0	1.2	1.3	1.4	1.5	1.6	1.7	1.9	2.0	2.1	2.2	2.3	2.6	2.9
2	1.9	2.1	2.3	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	4.4	4.7	5.2	5.8
3	2.8	3.1	3.5	3.8	4.2	4.5	4.9	5.2	5.6	5.9	6.3	6.6	7.0	7.9	8.7
4	3.7	4.2	4.7	5.1	5.6	6.1	6.5	7.0	7.5	7.9	8.4	8.9	9.3	10.5	11.7
5	4.7	5.2	5.8	6.4	7.0	7.6	8.2	8.7	9.3	9.9	10.5	11.1	11.7	13.1	14.6
6	5.6	6.3	7.0	7.7	8.4	9.1	9.8	10.5	11.2	11.9	12.6	13.3	14.0	15.7	17.5
7	6.5	7.3	8.2	9.0	9.8	10.6	11.4	12.2	13.1	13.9	14.7	15.5	16.3	18.4	20.4
8	7.5	8.4	9.3	10.3	11.2	12.1	13.1	14.0	14.9	15.9	16.8	17.7	18.7	21.0	23.3
9	8.4	9.4	10.5	11.5	12.6	13.6	14.7	15.7	16.8	17.8	18.9	19.9	21.0	23.6	26.2
10	9.3	10.5	11.7	12.8	14.0	15.2	16.3	17.5	18.7	19.8	21.0	22.2	23.3	26.2	29.2
11	10.3	11.5	12.8	14.1	15.4	16.7	18.0	19.2	20.5	21.8	23.1	24.4	25.7	28.9	32.1
12	11.2	12.6	14.0	15.4	16.8	18.2	19.6	21.0	22.4	23.8	25.2	26.6	28.0	31.5	35.0
13	12.1	13.6	15.2	16.7	18.2	19.7	21.2	22.7	24.3	25.8	27.3	28.8	30.3	34.1	37.9
14	13.1	14.7	16.3	18.0	19.6	21.2	22.9	24.5	26.1	27.8	29.4	31.0	32.7	36.7	40.8
15	14.0	15.7	17.5	19.2	21.0	22.7	24.5	26.2	28.0	29.7	31.5	33.2	35.0	39.4	43.7
20	18.7	21.0	23.3	25.7	28.0	30.3	32.7	35.0	37.3	39.7	42.0	44.3	46.7	52.5	58.3
25	23.3	26.2	29.2	32.1	35.0	37.9	40.8	43.7	46.7	49.6	52.5	55.4	58.3	65.6	72.9
30	28.0	31.5	35.0	38.5	42.0	45.5	49.0	52.5	56.0	59.5	63.0	66.5	70.0	78.7	87.5
35	32.7	36.7	40.8	44.9	49.0	53.1	57.1	61.2	65.3	69.4	73.5	77.6	81.6	91.8	102.1
40	37.3	42.0	46.7	51.3	56.0	60.6	65.3	70.0	74.6	79.3	84.0	88.6	93.3	105.0	116.6

Using the method described above—usually provides a conservative solution. **Rule of thumb** for determining number of diffusers required in a live haul tank at least 1 m deep is: one **MBD600 diffuser will support up to 340 kg fish**; an **MBD300, 170 kg**; **MBD100, 85 kg**; and **MBD75, 40 kg** of fish.

