Table S1. Scaling of body dimensions and engulfment capacity with respect to body length.

Symbol	Morphological Parameter	Species	n	Slope	95% C.I.		r^2
M_c (or M)	Body Mass	Blue whale (*Balaenoptera musculus*)	45	3.54	3.17	3.91	0.89
		Fin whale (*Balaenoptera physalus*)	96	2.74	2.56	2.92	0.90
		Humpback whale (*Megaptera novaeangliae*)	29	4.17	2.81	5.53	0.32
A_{mouth}	Mouth Area (Planar or max. projection at 90º gape)	Blue whale (*Balaenoptera musculus*)	215	2.60	2.50	2.70	0.92
		Fin whale (*Balaenoptera physalus*)	296	2.45	2.39	2.52	0.95
		Humpback whale (*Megaptera novaeangliae*)	36	2.16	1.96	2.37	0.93
W_{head}	Head width (Bizygomatic width of skull)	Blue whale (*Balaenoptera musculus*)	452	1.20	1.16	1.24	0.88
		Fin whale (*Balaenoptera physalus*)	296	1.15	1.10	1.19	0.90
		Humpback whale (*Megaptera novaeangliae*)	39	1.04	0.89	1.20	0.79
L_{gape}	Length of Gape (Tip of snout to angle of gape)	Blue whale (*Balaenoptera musculus*)	398	1.42	1.38	1.47	0.90
		Fin whale (*Balaenoptera physalus*)	296	1.24	1.20	1.28	0.93
		Humpback whale (*Megaptera novaeangliae*)	52	1.22	1.12	1.31	0.92
L_{jaw}	"Palate" length (Lateral projected length of jaw)	Blue whale (*Balaenoptera musculus*)	215	1.47	1.40	1.55	0.86
		Fin whale (*Balaenoptera physalus*)	296	1.25	1.21	1.29	0.93
		Humpback whale (*Megaptera novaeangliae*)	36	1.21	1.09	1.32	0.93
L_{VGB} (or L_0)	Length of ventral groove blubber (Snout to posterior end of grooves)	Blue whale (*Balaenoptera musculus*)	489	1.19	1.18	1.21	0.97
		Fin whale (*Balaenoptera physalus*)	457	1.14	1.12	1.16	0.97
		Humpback whale (*Megaptera novaeangliae*)	51	1.19	1.12	1.26	0.96
M_w	Engulfment capacity	Blue whale (*Balaenoptera musculus*)	487	3.65	3.63	3.67	0.99
		Fin whale (*Balaenoptera physalus*)	491	3.51	3.49	3.53	0.99
		Humpback whale (*Megaptera novaeangliae*)	51	3.21	3.15	3.31	0.99
Mw/Mc (or M_{ms})	Mass-specific engulfment capacity	Blue whale (*Balaenoptera musculus*)	487	0.38	0.36	0.40	0.68
		Fin whale (*Balaenoptera physalus*)	491	0.94	0.92	0.96	0.94
		Humpback whale (*Megaptera novaeangliae*)	51	0.86	0.82	0.98	0.93