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Power Consumption Calculation for Combined Immersion Heaters to Determine the Required Battery Capacities of Battery Packs and Battery Tanks

Heating products	**11,1V - Battery**	**14,8V - Battery**	**Enter A-value**
4-Zone-Shirt	1,8A	2,4A	A
7-Zone-Shirt	3,0A	4,0A	A
4-Zone-Pant	1,8A	2,4A	A
Overall for divers	5,4A	7,2A	A
Overall for divers + calves	6,6A	8,8A	A
Heating vest for divers	5,8A	7,7A	A
+ gloves	2,5A	3,3A	A
+ diving socks	2,4A	3,2A	A
+ Hood for head	1,5A	1,9A	A
Total current of all added heating consumers			= A
A-value x number of hours (duration of the planned dive)			= Ah

A = Ampere, the current value for the consumption of single or multiple heating products | Ah = Ampere-hour, the required minimum capacity of the diver battery at 100% heating power.

Example calculation for a 14.8V battery supply:

Shirt + socks = 7.3A x 2.5h (heating time in hours) = 18.25Ah.

The battery capacity should be at least 18.25Ah.

Accordingly, the next largest battery technology would be a 14.8V/20Ah battery.