

## Recombiner considerations and comparisons.

There are currently seven manufacturers of recombination vents. Two will only sell their recombiners to purchasers of their batteries. The remaining five are manufacturers that provided them to various battery manufacturers, resellers, and end users.

This sheet is intended to show side-by-side comparison of the different units. Columns “A” and “B” are manufacturers whose units are for use in their cells only and cannot be purchased by end users for use in other manufacturers cells.

We believe that there are only five important considerations when selecting a recombiner.

1. Efficient at recombination (preventing water loss) – 96% or greater – many units are 99% or greater
2. Able to control the rate that the gas is allowed to make contact with the catalyst core in order to limit the heat generated during recombination
3. Able to withstand extended periods of time at gassing rates greater than the recombiner is designed to recombine without damage to the recombiner or cell
4. Is the recombiner non-intrusive – will it not interfere with normal maintenance activities – 2” or less in height
5. Warranty

Manufacturer	A	B	C	D	E	F	G
Efficient – over 95%	X	X	X	X	X	X	X
Capable of limiting recombination to control heating	X				X	X	X
Withstand 10 amps of overcurrent for 6 hours without failure	X	X	X	X	X	X	X
Withstand 20 amps of overcurrent for 6 hours without failure	X	X	X	X	X	X	X
Withstand 30 amps of overcurrent for 6 hours without failure	X				X	X	X
Withstand 40 amps of overcurrent for 6 hours without failure	X				X	X	X
Withstand 50 amps of overcurrent for 6 hours without failure	X				X	X	X
Non-intrusive 2” height or less				X		X	X
1 year warranty	X	X	X	X	X	X	X
5 year warranty							X