

# HOW ON EARTH COULD ANY REGULATOR FREEZE IN 50° WATER?!?

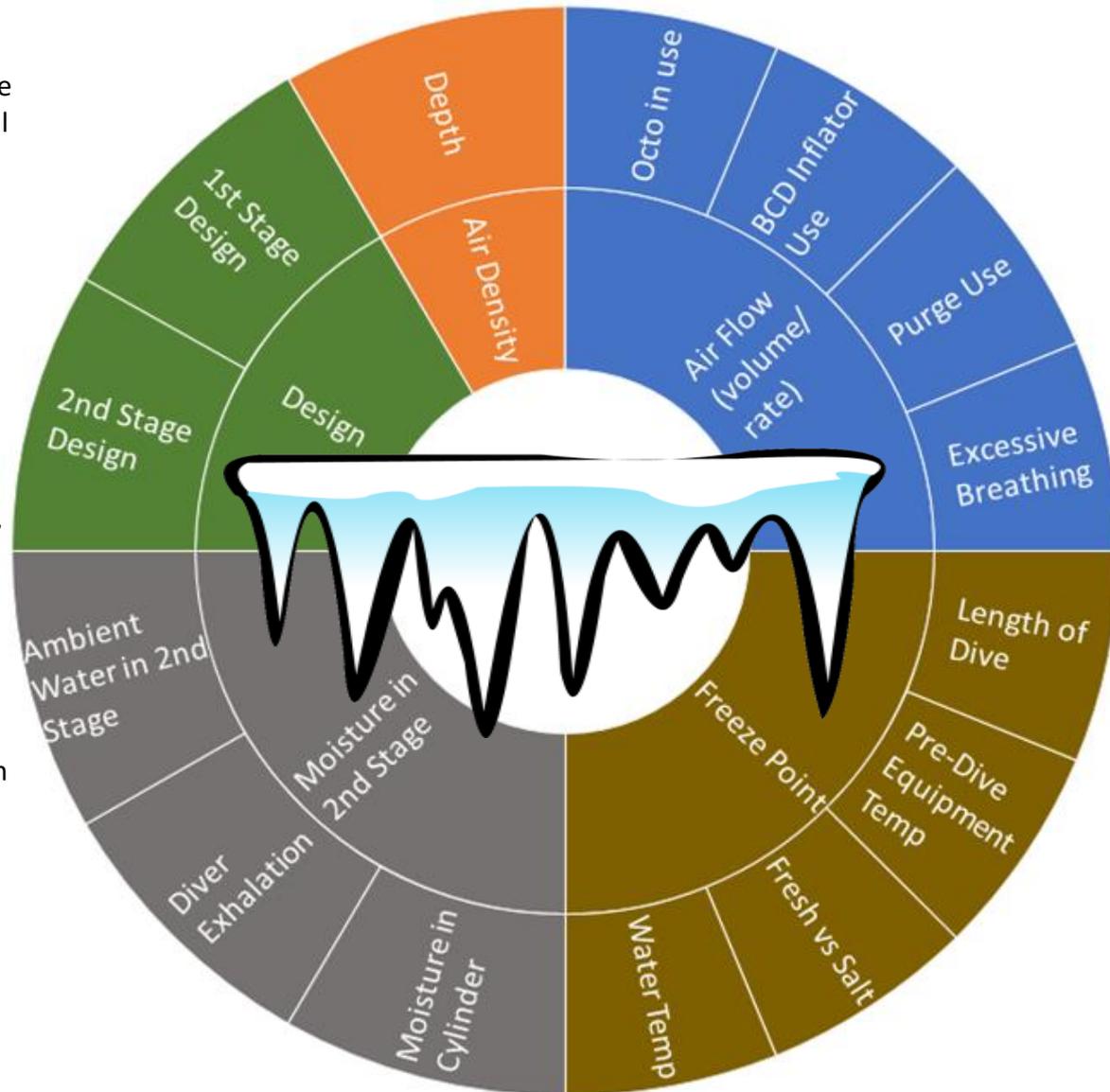
## First, don't be alarmed

- Virtually any regulator used in tropical waters can be considered immune from freezing under any normal operation.
- However, adequate performance of the octopus in emergencies on deeper dives should not be assumed - especially on older units.

**In cooler water**, any regulator could freeze given the right conditions. There is NO design that is 100% guaranteed to be freeze-proof.

- Freezing of 2<sup>nd</sup> stage almost always results in a free flow.
- Freezing in 1<sup>st</sup> stage usually contributes to free flow, but can sometimes result in restricted air flow.
- EN250A\* stamped regulators (tested ~40° to 50°) can still freeze at temperatures 50° and slightly above, depending on how they are used and the workload applied.
- Designs for extreme coldwater (< 40°) are highly freeze resistant, but can still freeze up depending on multiple variables and conditions of extreme/prolonged use.

\* Current EU testing standard, last revised 2014. Testing standards have evolved over the years, and items not sold in EU generally do not undergo that testing. Do not make assumptions on older regulators.



This slide is summarized from several sources to assist in understanding purchase choices, and is not intended to be a definitive "single source of truth" for all brands and models. Refer to the Owners Manual for your regulator for specific guidance.