

360 Siphon Technical Data

Product design:

The 360 Siphon® is the only omni-directional vent cap in existence with no moving parts that prevents wind caused high pressure. It is basically a one-way check valve that only permits exhaust (low pressure) within a sealed system.

The Gen 1 Siphon: The first, or Gen 1 siphon, was 3 years in the design phase and incorporates a complex series of shapes, angles and clearances with tolerances to less than 1/32".



Gen 2 Siphon: The second edition, or Gen 2 siphon, was refined for two reasons. One, a slightly smaller base was needed to accommodate RV's where Black and Gray water tank pipes were located too close together and modifications were necessary. Two, it can now be installed without removing the entire base (as on new or recent model RV's) if it is still in excellent shape. A slightly redesigned bug screen is also more effective in preventing formation of a surface tension water film while driving or in the rare case of torrential downpours and extremely high winds while parked. Ocean environments come to mind as an example.

Materials and construction Facts:



The plastic for the gen2 is still composed of "Polycarbonate" plastic blends that are renowned for their durability and high tolerance to heat and cold. UV inhibitors are built into the plastic itself and not just "coated" to provide years of service without maintenance or replacement. It is used in many commercial applications such as eyeglass lenses, Helmets and airplane parts where durability is a must. DO NOT misinterpret its lightweight feeling as a weakness of material. The fact of the matter is that Polycarbonates are lighter, extremely resistant to product degradation in sunlight and cold (the key element in durability and long-term product performance), stronger and more flexible, safe (exclusively used in medical devices) and considerably more expensive to use versus any ABS or PVC. The complexity of angles and the need for maintaining the integrity of our patented design makes it a MUST to use the Polycarbonates over less expensive plastics.

The 360 Siphon is now being used by over 100 RV product lines as a factory installed black tank vent (some use it on the gray water too) and continues being adopted by more as "breathing healthier" without chemical use (not necessary since tank fumes no longer enter living spaces) and extended stays now becomes more important than ever.

You don't have to just take our word for it. There are thousands of articles on the web supplying more detailed scientific information on the Chemistry of plastic compounds and how proper aerobic waste decomposition is accomplished with the technology built into the 360 Siphon.