The purpose of the Upper Hull Pressure Vessel is to provide a water tight environment for the majority of the electronics on the vehicle, including computing, power, and sensor infrastructure. Within it the Upper Hull Rack is cantilevered, and the hull can be opened without need for a power down. The rear endcap serves as a point to mount to the frame and hold the waterproof connectors.

**Acrylic Hull Assembly**
- Cast acrylic epoxied to 6061 T6 Aluminum collar and endcap
- 0.1875" thick front endcap with built-in hold down block
- 9.5" outer diameter, 0.1875" wall thickness, 19" long cast acrylic hull
- Rear aluminum collar with 4 counterbored #8 clearance holes for attaching to Rear Endcap
- 9" inner diameter on collar acts as sealing surface
- Depth rated to 50 feet

**Rear Endcap**
- 0.375" thick rear face
- 14 HUMK-5 connector holes
- 14 MCBH-6/8 connector holes
- 4 MCBH-10 connector holes
- Single #269 O-ring bore seal
- 8 x #8-32 tapped mounting holes per side, spaced 0.5" apart, for mounting to frame
- 6 x #8-32 tapped mounting holes on the interior for the Upper Hull Rack mounting
- Depth rated to 200 feet