

General Pre-Dive Checklist

(for permanent record use **Juergensen Marine** detailed Checklist)

- Verify sufficient adsorbent time remaining, and pack new Scrubber if necessary.
- Analyze diluent and O₂ cylinder and record.
- Check the DSV for proper operation and verify the direction of the gas flow.
- Mount Diluent and Oxygen Cylinders onto unit .
- Switch on Primary and Secondary Handsets.
- Record cell *mV* readings on both handsets in Air.
- Install and Secure Lid
- If calibration was not completed, perform Oxygen calibration and record cell mV readings.
- Check over-pressure relief valve. Carry out positive and negative pressure tests.
- Check battery health by battery voltage display on each handset.
- Turn on gas supplies and check function of valves, bailout regulator systems and ADV.
- Check LP inflators for buoyancy system and dry-suit (if in use) are properly attached.
- Record diluent and Oxygen cylinder pressures, shut off valves. Verify that there is no pressure drop in either cylinder after TWO minutes.
- Verify proper computer function
- Turn on Oxygen supply and Diluent supply.
- Verify correct calibration of O₂ sensors
- Pre-breathe for 2 minutes to check proper scrubber function.
- Verify operation of ADV by dumping gas from the loop and taking a breathe deep enough to trigger gas addition, and observing a PO₂ reading decrease
- Verify operation of Manual Oxygen Addition valve by depressing the button and observing a PO₂ reading increase.