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COY O2 Control Glove Box in vivo Maintenance

Daily

- Check O2 Levels
- Check that the glove box does not have any condensation build up
- Check saturation level of the Carbolime (White substance turns to pink when) Replace when completely saturated, this may weekly or several months depending on activity levels and number and size of the animals.
- Check saturation level of the desiccant system (blue turns to purple/to white when saturated)

Weekly

- Clean the Airlock Seals to remove dust, dirt and grime.
- Regenerate Desiccant as needed (may be 2-4 weeks before regeneration is needed).

Every 1-3 months

- Check to see that BOTH gas lines are not leaking. Over time fittings on the back of the airlock or the connections on the copper tubing can become loose and leak without warning.
- Calibrate O2 Sensor

Every 6 months to 1 year or as needed based on chamber activity

- Leak Check the glove box
- Change HEPA Filters (option)
- Replace Carbolime if it has not been done in the past year due to saturation

O2 Sensor life is 2 years under ambient conditions. Since it is consumed by O2 the lower O2 levels it experiences the longer it will last. The inverse is also true the higher O2 levels will shorten the expected life of the sensor.

Disinfecting/cleaning the chamber

- Clean the chamber using a non-abrasive plastic cleaner and a soft cotton cloth. Do not use paper towels especially chem-wipes as they will scratch the material.
- Disinfect the chamber using an Isopropyl or 10% bleach solution in a complete wipe down of the area. Alcohol or bleach that is allowed to sit on the material will weaken and yellow it over time therefore it is important to wipe up any excess thoroughly.