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| **ECLS System** | **Requirements** |
| Water Recovery and Management | Reuses water from waste sources and air vapor. Kills & removes microbes in water. Recycles water from urine. |
| Atmospheric Control and Supply | Adds & maintains gases at the right amounts and partial pressures. |
| Temperature and Humidity Control | Allows for correct humidity & temperature in cabins. Removes moisture from the air. |
| Waste Management | Collecting, processing and recycling of human solid wastes. |
| Air Revitalization | Removes carbon dioxide and trace contaminants from the air space. |
| Oxygen Generation | Creates oxygen from the electrolysis of water for crew members to breathe. |
| Sabatier System | Takes carbon dioxide from cabin and converts it into methane and water for further use. |
| Food Storage and Preparation | Equipment used to provide food preservation, storage and preparation. |

**Types of Life Support Systems and their functions**