

Sahaad Life Support Systems

The Sahaad Life Support Systems are primarily used throughout their space upon most if not all vessels. While some ships rely on older systems they are slowly beginning to refit into the more reliable systems in currently in use. Using genetically enhanced plant matter, and other assorted oxygen producing methods has given them the capability of not having to worry about bulky oxygen tanks and shorter trips. Water Recycling while a little unsavory has proven to be a major contributor of extended travels on less resources.

Air Production and Recycling

Oxygen aboard Sahaadi ships is produced by a number of filled trays distributed within air ducts inside of the ship. These trays contain genetically modified plant matter, chlorophyll and microbes which produce sufficient levels of oxygen. Artificial photosynthesis occurs when a series of small lamp-like nodes turn on and off in succession throughout the ducts containing the material, both to allow it to feed when the lights are on and produce oxygen when they are off. Air scrubbers within the same ducts assist in air purification by removing particulate matter, harmful substances while the air is being processed with the exception of carbon dioxide in which the oxygen producing trays utilize to help in the production of new air supplies.

Water Recycling

Each ship carries its own on board [Water](#) stores. However these stores end up being used decreasing volume and availability down the road. The Sahaad, recognizing the need to replenish water supplies also knew logistic ships may not always carry a source to replenish the reserves. Water recycling systems were introduced which purify, extract and even help to create more water. Waste water is purified before being cycled back into the water stores while organic waste from such things as [Food](#), excrement, and urine are broken down, processed for whatever liquid can be retrieved and then incinerated. The extracted liquid is then put under purification and further separation to ensure it is safe drink.

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