

Motoyoshi Fleet Yards Life Support Systems

Utilized Environmental Systems on ships that were produced by [Motoyoshi Fleet Yards](#).

| MFY Life Support Systems | |
|--------------------------|---------------------------------------|
| Designer | Motoyoshi Fleet Yards |
| Nomenclature | Discontinued Product |
| Manufacturer | Motoyoshi Fleet Yards |
| Fielded by | Motoyoshi Fleet Yards |
| Production | Discontinued Product |
| Price | Negotiated |

Legacy Product Notes

[Motoyoshi Fleet Yards](#) was acquired by the [Yugumo Corporation](#) in YE 41. These systems were deployed in vessels produced prior to that year and have been discontinued. Product Source is currently salvage and stockpiled stock and is no longer being produced. Please contact the [Yugumo Corporation](#) for more information.

Products That Used This System

The following products produced by [Motoyoshi Fleet Yards](#) used this system:

- [My-T1-1A Phoenix Dropship](#)
- [Shuriken-class Fighter Drone](#)
- [Tantou-class Gunboat](#)

Atmospheric Control System

The ACS utilizes a complex series of Atmospheric Generation and Revitalization Systems where oxygen and other atmospheric components are derived from inorganic matter through a series of chemical reactions and circulated through a ship-wide duct system that runs in conjunction with interior room modules and maintenance tunnels. Nanoscopic scrubbers, chemical filters, and ultraviolet radiation sterilizers remove harmful materials such as bacteria and viral pathogens. Contaminants are transported to the recycling system.

Water Circulation System

Deionized, Distilled water is passed from storage tanks through nanoscopic scrubbers and is then is

pumped throughout the ship through a controlled membrane piping system derived from technology found on [Sfrarabla Mishhuvurthyar Xhrafuklurp \(SMX\)](#) ships through research done at the Chie Research Base. Wastewater is filtered and purified and sent back into the system. Contaminants pulled from the water are then transported to the recycling system.

Nanomechanized Cleaning System

Nanomachines are released into areas when there is no personnel present or at controlled times scheduled by the logistical staff or the AI. These simple nanomachines are designed to transport dirt, dead skin cells, hair, and other waste products from surfaces of the ship into the MDRS.

Molecular Disruption Recycling System (MDRS)

Contaminants, waste, and other products collected through the water, atmospheric, and mechanized cleaning system are transported to the Molecular Disruption Recycling System, referred to as the MDRS. MDRS is a two-stage system that recycles as much material as possible for use in onboard systems.

Stage 1: Molecular Sorting and First Stage Separation

Waste is separated into basic molecular forms, useful forms that can be utilized directly by the water circulation system, or atmospheric generation and revitalization systems are separated and put back into those systems.

Stage 2: Molecular Disruptor and Final Separation

A confined plasma beam is utilized in this stage. When waste is passed through the superheated plasma it is broken down on the molecular level; molecular bonds are broken and thus the waste is broken down into basic elemental components. Those elemental components are then either assembled or passed as is back into other ship's systems for utilization.

Hazard Handling System

In the event that a compound is determined to be too dangerous to remain in the system; such as foreign nanomachinery, or other materials, it is immediately isolated in a subspace containment field and is jettisoned from the ship and into space.

OOCC Notes

- Page was updated and fixed on 01/03/2020 by [Andrew](#).

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