Keg'sta Heat Management Device
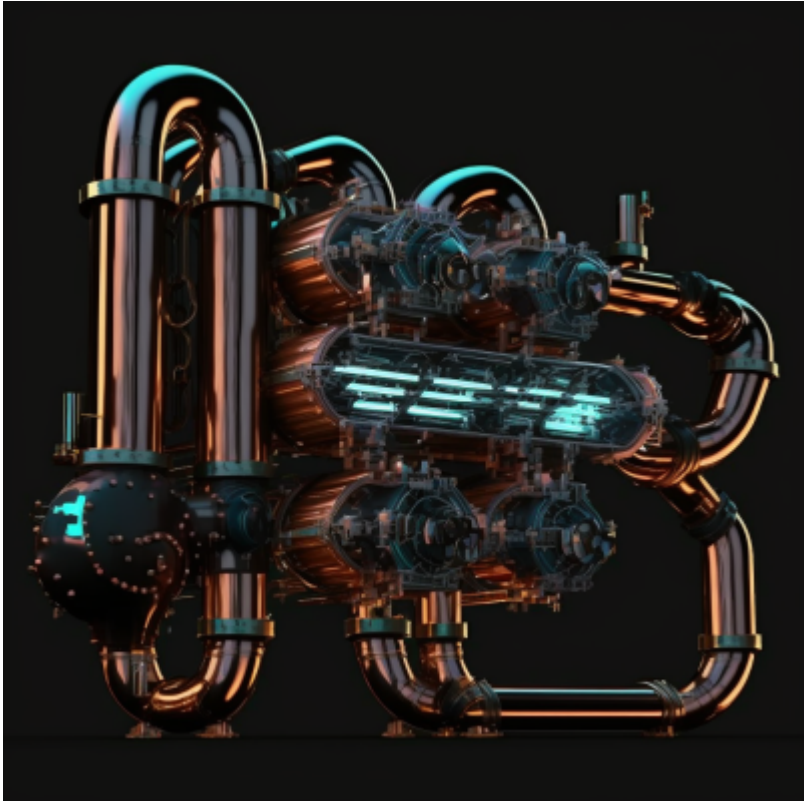
The Keg'sta Stealth Device was the first component produced by the Lo'ken Institute as part of the Lok'en Institute - Ketsurui Zaibatsu Trade and Cooperation Agreement in YE 44.8. It was specifically produced as a component supplied to Ketsurui Fleet Yards for the Star Army of Yamatai for use on stealth small craft and some starships.

Keg'sta Heat Management Device	
Year of Creation	YE 44.8
Designer	Lo'ken Institute
Nomenclature	Type 44 Keg'sta Device[1]
Manufacturer	Lo'ken Institute
Fielded by	Ketsurui Fleet Yards and the Star Army of Yamatai
Availability	Limited Production
Price	7,000 to 22,000 KS [2]

Keg'sta refers to the "removal of junk" in Nira'las.

History

The Norians had advanced knowledge in regard to the tapping of dimensional energies of dimensions

such as Aether. Despite their own divergence away from such energies they still respected their usage within the Yamatai Star Empire. One of the things noticed during the Arrival of the Norians in YE 44.7 was some of the signatures [3] created by the usage of Aether on the Star Army of Yamatai ships. While this wouldn't solve the illumination of aetheric sensors an existing technology used by the MERN, could be converted for use on Star Army of Yamatai ships. Not to mention the devices were fairly simple to produce meaning they could be made on the ships of the survivor fleet and provided almost immediately. Under the oversight of Uaeso Eitan and Admiral Aphelion, the Keg'sta Device would be delivered for use.

One of the first interested parties in the device would be those developing the Mozu-Class Starfighter (1B) and Yu-M1-2B Series "Molly" Light Mechanized Power Armor. It would just mean they would have to acquire the component from Ketsurui Fleet Yards , but since both were in development for the Star Army of Yamatai that should be easily managed through the Star Army Military Industrial Complex.

Function and Design

The function and design of the Keg'sta Device are very simple, it just manipulates the already existing infrastructure of Aether devices and other craft subsystems to mitigate the heat produced by aether plasma and other sources. When the Aether power system, and other subsystems create a lot of system heat, rather than relying just on cooling systems and systems which vent that waste heat into space. The Keg'sta device uses the dimensional tap to vent system heat collected in a series of tubes and the head sinks back through the tap and into the Aether dimension. While this won't stop things like sub-light engines from having a heat signature, it does effectively funnel waste system heat to help reduce a craft's waste heat profile.

The System has these basic components:

- Heat sinks and connections to existing cooling systems - To direct heat away from subsystems quickly and efficiently.
- Aether Tap Regulators - To turn the dimensional tap drawing the Aether into a two-way system where heat and wastes can be funneled back into the Aether dimension.
- Control System - This integrates into the PANTHEON or other systems which controls the platform it is mounted on for control. Manual controls are also installed in engineering areas.

Appearance

The size and scale of the system differ from build to build. In general, however, it is a series of Akiyama Takashi pipes with various heat sinks as well as Yarvex Foam insulation. The Aether Tap Regulators form rings around the dimensional aperture inside of the power generator.[4]

OOC Notes

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- Created from an idea proposed by Immortal Cyan in the Yugumo-Motoyoshi Design Collective (OOC).
- Art produced by Andrew using Midjourney Bot.

[1)]

Once a decision is made on what device this will be mounted on first, it will take on that nomenclature

[2)]

Price is depending on scale of the armor, small craft or ship it is being utilized on.

[3)]

From their perspective as a military that had a similar technology level.

[4)]

Pictured above in the General Statistics Box