

Star Army Aerospace Flight Suit, Type 32

The Type 32 Aerospace Flight Suit (AFS or simply Flight Suit) was created for fighter pilots. It became available in [YE 32](#).



About the AFS

The AFS is a body suit made to protect pilots against the rigors of activity in space or in hostile ground environments, it is designed to manage heat and cold extremes, as well as resisting the radiation of space. The tight-fitting polymer covering the body is extremely flexible and does not restrict movement. The AFS is not available for public sale.

History

Originally designed in late YE 31, the AFS was manufactured for use by pilots of Fighter and Shuttle craft in the Star Army of Yamatai. It entered production in the first few days of YE 32, and is still produced today. It is based upon the highly successful [Star Army Environmental Suit, Type 28 \(AMES\)](#) design.

Organization Using This Suit: [Star Army of Yamatai](#) Type: Environmental Suit/Dedicated Flight Suit

Nomenclature: Ke-G4-1a Designers: [Star Army Research Administration](#) and [Ketsurui Zaibatsu](#)

Manufacturers: [Ketsurui Zaibatsu](#), [Star Army of Yamatai](#)

- Appearance: The AFS is a dark blue body suit that covers the entire body. The helmet is smooth and the faceplate is transparent, curving around just enough to not block peripheral vision. The suit itself is form fitting, allowing free movement.
- Lifespan: The AFS is expected to last for a year with constant use and maintenance, 6 months without maintenance.

Components



Suit

The surface of the suit is made of a specialized polymer similar to that used by the AMES. It is highly resistant to heat, cold, and radiation. Inside the suit is the gel found inside of many Power Armours, providing resistance to trauma caused by high-speed objects.

Pressure System

To avoid 🧠G-LOC in combat (Primarily in Atmosphere, where CFS is less effective) a 'pressure' system was installed to both increase the Pilot's "threshold" and defend against punctures in the suit and in the Pilot. Inside the Gel layer, there is Hemosynthetic Blood. As G-Force increases, the Blood is pushed down to the legs, restricting blood flow and allowing more to go to the Brain. When the suit is punctured, the blood will clot.

Air Recycling System

The air recycling system of the AFS is very efficient, with small improvements made on the AMES' design – primarily miniaturization and movement of the module. Located inside the back of the helmet, it uses a combination of specialized catalysts and organics to split carbon dioxide into oxygen again. A wearer of the AFS can survive for a potential 52 hours inside the suit with power focused on Life Support.

Liquid Recycling System

The water recycling system operates from a small pocket in the gel layer near the crotch, where specialized bacteria and chemicals operate to clean the waste of the wearer, and transport the clean water back to the wearer via tubes that connect into the helmet when the suit is sealed for use at the back of the neck and skull, the tubes then wrap around to be near the mouth.

Communication

The AFS can use Radio, Laser, and Telepathic modes of communication when not inside a craft. It is otherwise designed to link and use the Fighter/Shuttle Craft's communication systems.

Helmet

The Helmet is the powerhouse of the AFS – without it, the suit cannot function. The faceplate is transparent, with a holographic overlay that operates as a Heads Up Display (HUD). The HUD shows information about the Fighter/Shuttle Craft's status, and sensors. When in combat, it also displays colored outlines of targets but can be changed while the Helmet is recharging. When it is not hooked into the craft, it displays life support levels.

- Red (blinking): Incoming ordnance
- Red: Enemy
- Orange: Hostile
- Yellow: Neutral/Unknown
- Green: Friendly
- Blue: VIP/Mothership

Rear Helmet Compartment

A curved module that holds the Power Source, and all life support systems as well as a link to the Fighter's Systems. It is made to blend with the rest of the helmet.

The link port can be extended via built-in cable to hook into systems, and is compatible with most [Star Army Standard Life Support Systems](#)

Power Source

The AFS is powered by a set of four Ketsurui BR-28 Rechargeable Batteries located in the back of the helmet. It can operate for 24 hours using all of its systems, or 52 hours with all power focused on Life Support and a small distress beacon that is automatically activated when the Pilot's linked craft is disabled and he is incapacitated.

Outer Surface

Belt

The AFS comes equipped with a belt around the waist that has several pouches, a canteen hook, a holster, and a pair of Air Shooters.

Air Shooters

As with the AMES, on each side of the belt there is a small can of highly compressed air, that can be used to provide propulsion in a vacuum. The cans are mounted on hard swivel points and are fired by pressing a button on the top of the can. The air sprays from the bottom.

Pistol Holster

The belt comes with a removable holster for a [Nekovalkyrja Service Pistol, Type 33](#).

Pouches

Typically used to hold a communicator, and spare batteries/ammunition. Can hold other small, miscellaneous items.

Chibi Gallery





Star Army Logistics	
Supply Classification	Class L - EQUIPMENT PERSONAL ESSENTIAL & UNIFORMS
Products & Items Database	
Product Categories	clothing, uniforms
Product Name	Star Army Aerospace Flight Suit

Products & Items Database	
Nomenclature	Ke-G4-1a
Manufacturer	Star Army of Yamatai , Ketsurui Zaibatsu
Year Released	YE 32

From:

<https://wiki.stararmy.com/> - **STAR ARMY**

Permanent link:

https://wiki.stararmy.com/doku.php?id=stararmy:equipment:aerospace_flight_suit

Last update: **2023/12/21 01:01**

