

Canteen and Jerrycan with Hemosynthetic Filters

[Star Army of Yamatai](#) water containers and filtration systems that utilize [Hemosynthetics](#). They were updated in [YE 43](#).

History and Background

In [YE 43](#) following the upgrades to the [Nodal Liquid Conduit System](#) and the [Star Army Standard Life Support Systems](#), [Dr.Shinichiro Tomoko](#) at [Ketsurui Zaibatsu](#) began to work on putting hemosynthetic water filters into use in the field. The first set of designs she came up with was to integrate hemosynthetic filters into the [Canteen](#) and [Jerrycan Jug](#) formats to allow soldiers to filter water for consumption in the field.

General Information

[Canteen](#) and [Jerrycan Jug](#) with integrated [hemosynthetic](#) water filters.

Year of Creation	YE 43
Designer	Dr.Shinichiro Tomoko
Nomenclature	Ke-G10-1A (Canteen), Ke-G11-1A (Jerrycan 8L), and Ke-G11-1B (Jerrycan 20L)
Alt. Nomenclature	None
Manufacturer	Ketsurui Zaibatsu
Fielded by	Star Army of Yamatai Only
Availability	Mass Production
Price	50 KS (Canteen), and 65 KS (8L) and 80KS (20L)

Hemosynthetic Filters

[Hemosynthetic](#) Filters range in size from small cartridges to large industrial-sized filtration units found in things like the [Star Army Standard Life Support Systems](#). In simplicity, the filters work through the use of femtomachines found in [hemosynth](#) to remove impurities, bacteria, and other organisms on the molecular level from [water](#). The captured impurities are broken down into their basic components then transferred into storage across a selective membrane wherein small systems are stored in a catch basin; and in larger systems, they are forwarded into systems like the [Matter Collection System](#) or [Fabrication System](#) for use in fabrication and other functions. While a lot of functions of the [Nodal Liquid Conduit System](#) and other [Hemosynthetic Systems](#) are high energy, the filtration applications are generally low power. Through the ability of femtomachinery to create their own osmotic gradients, the water in the container is constantly in a cycle of filtration.

Canteen with Cartridge

The Ke-G10-1A Canteen is a standard-issue 1L [Yarvex](#)-lined thin bodied [Durandium Alloy Canteen](#) with a bottom inserted [Hemosynthetic](#) filter and capacitor.

- The single filter cartridge unit screws into the bottom of the canteen and the small capture basin screws over top.
- Rate of Filtration: 1L per twenty minutes. ¹⁾
- Filter Life: 100L before it requires a connection to [Nodal Liquid Conduit System](#) for reset. ²⁾
- Capacitor Size: 55mm (length) x 5mm (diameter). Each unit takes a single capacitor.
- Capacitor Life: 3 Days of Constant Use. Rechargeable.
- Capture Basin can be unscrewed and wiped/rinsed out as needed.

Jerrycan with Filter

The Ke-G11-1A and Ke-G11-1B "JJ" Jerrycan is similar to the [Jerrycan Jug](#) but it has a removable catch basin, with a bottom inserted [Hemosynthetic](#) filter and capacitor. It comes in the same 8L and 20L capacities and is also lined with [Yarvex](#).

- The filter cartridge unit screws into the bottom of the jerrycan. The capture basin is placed overtop and is sealed into place by four clips and a gasket.
- Rate of Filtration: 8L per ten minutes (2 cartridges) and 20L per thirty minutes (4 cartridges). ³⁾
- Filter Life: 1000L before it requires a connection to [Nodal Liquid Conduit System](#) for reset. ⁴⁾
- Capacitor Size: 55mm (length) x 5mm (diameter). Each unit takes four capacitors.
- Capacitor Life: 3 Days of Constant Use. Rechargeable.
- Capture Basin can be removed and wiped/rinsed out as needed.

Accessories

The following accessories are available:

- Ke-G10/G11-P4300 - Rechargeable 55mm (length) x 5mm (diameter) Capacitors. - 5KS
- Ke-G10/G11-V4300 - [Hemosynthetic](#) water filter cartridge with the selective membrane. - 20KS
- Ke-G10-M4300 - Canteen Catch Basin - 10 KS
- Ke-G11-M4300 - Jerrycan Catch Basin with Gasket. - 10KS

OOO Notes

[Andrew](#) created this article on 2021/03/04 13:51.

- [Approval Thread](#)

Products & Items Database	
Product Categories	military equipment
Product Name	Canteen and Jerrycan with Hemosynthetic Filters
Manufacturer	Ketsurui Zaibatsu
Year Released	YE 43
Price (KS)	80.00 KS

1) [3\)](#)

May require up to forty minutes if the water is really dirty.

2) [4\)](#)

May require reset earlier if the water is really dirty.

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