Compact Collapsible Rapid Deployment Module

Ke-P2 (Series) Compact Collapsible Rapid Deployment Module is a user configurable module with the ability to fold up for transport.

Background

The Compact Collapsible Rapid Deployment Module (CCRDM) were conceived during the design and construction of the Collapsible Rapid Deployment Module. While the CDRM where made for use specifically for the SSS, they are too large for many ships to carry. The CCRDM come in two sizes, with correspond with the Standard Starship Cargo Containers medium and large. Unlike the CRDM these modules are not preconfigured.

About the CCRDM

Organization Using This item: Star Army of Yamatai Type: Portable structure Nomenclature: Ke-P2-1a/Ke-P2-2a Designers: Ketsurui Zaibatsu Research and Development teams, Star Army Research Administration Manufacturers: Ketsurui Fleet Yards, Star Army of Yamatai Entered service: YE 31

Specifications

Medium: Ke-P2-1a

Length: 5m (16.4') Width: 2.5m (8.425') Height: *(Collapsed)* 2 meters (6.74') Height: *(Deployed)* 3 meters (10.05') Floor space: 2.5m (8.425') x 5m (16.4')

Large: Ke-P2-2a

Length: 10m (32.8') Width: 2.5m (8.2') Height: *(Collapsed)* 2 meters (6.74') Height: *(Deployed)* 3 meters (10.05') Floor space: 2.5m (8.425') x 5m (16.4')
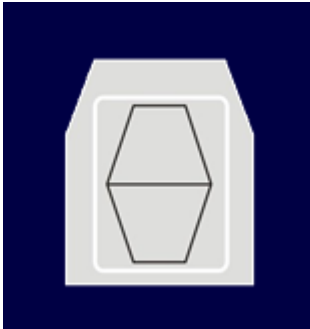
Description

The CCRDM is constructed from a Durandium Alloy frame, and covered in 1 cm thick sheets of Durandium Alloy. There are two hatches on each module on each end.
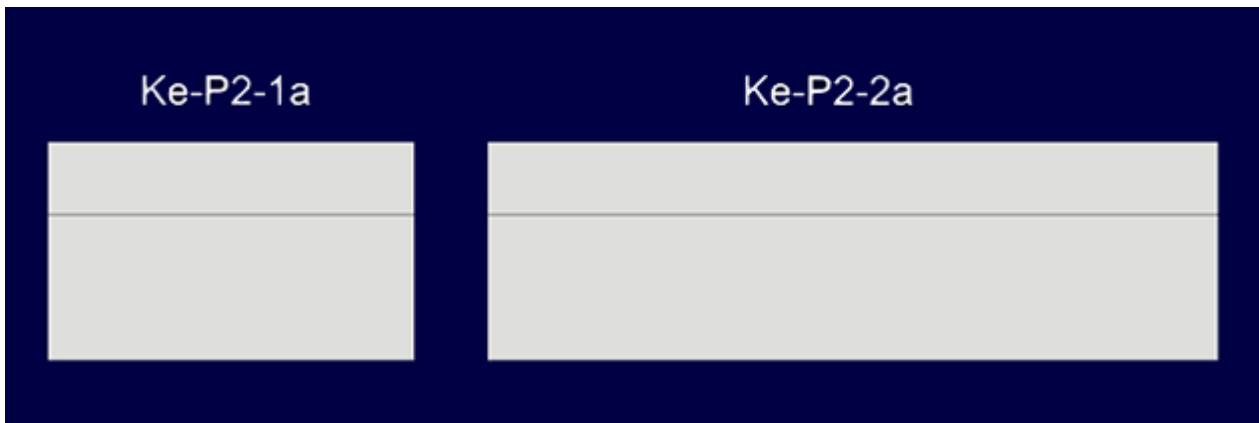
Viewed from the end they are hexagonal. A split hatch is centered on the ends. When opened the top half swings up, and the lower half drops down.

A plastic umbilical can be attached at the point indicated in white. This allows modules to be connected together and provides an environmental seal.
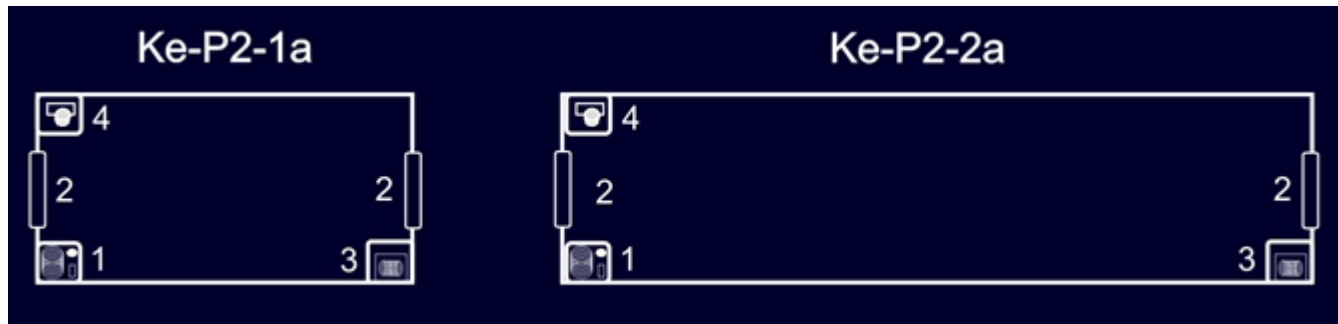
End view

Side view

CCRDM deploying

When the CCRDM deploys the top section raises up, it slides in slots in the front and rear upper panels, and lifts them into place. Once the top section is in place the end panels are swung up and secured.

The CCRDM comes empty except for the standard module equipment. It comes with a set of racks made for installing equipement in the CCRDM. These racks lock into the tracks in the ceiling and floor of the module.

The .3 meters (1 foot) of the top and bottom sections is used for wiring, plumbing, and embedded lighting. The surface of these has power and data connections as well as tracks for equipment to be moved. This allows equipment to be repositioned prior to collapsing the module. All equipment that is mounted to the floor or ceiling must be no more than 1.5 meters in height.

Standard Module Equipment

All Compact Collapsable Rapid Deployment Modules have the following equipment:

1. Enviromental system
2. Side hatch location
3. Power supply
4. Integrated Computer core

Environmental system

- Air recycling system which scrubs the air, and provides thermal control as required. Vents are placed through out the module.
- A closed water system, that recycles all water used in the system. It also processes moisture removed from the air thru the air system.

Gravity control

- Installed in the lower portion of the CCRDM are gravity controls. These serve two purposes, first is to facilitate the installation of the module. They are activated by an external control to reduce the effective weight/mass of the module so that the team can safely deploy it. Once the module is deployed the gravitic systems are only to adjust the internal gravity in the module if necessary.

Integrated Computer core

- This is a small but advanced, quantum computer, with the same capabilities as the Armor Integrated Electronics System (AIES), capable of performing super-high-speed data-churning and possessing untold memory.

Power supply

- A compact Aether Generator provides the power needs of the module and all of its equipment

Products & Items Database	
Product Categories	buildings, containers
Product Name	Compact Collapsible Rapid Deployment Module
Nomenclature	Ke-P2-1a/Ke-P2-2a
Manufacturer	Ketsurui Fleet Yards, Star Army of Yamatai

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