Geshrinari Fusion Generator

The Geshrinari Shipyards manufactured fusion generator was commonly used as primary power on most of their older ships. These days it is used as a secondary power supply on most of their designs.

The generator consists of the reactor, and its connected to the following components; turbines, generators, and condensers. The fusion reactor is usually kept in a low power state, so that in an emergency it can be brought up quickly to supplement the main reactor. It takes time to start a cold fusion reactor, and it requires a source of power, either external or a secondary power supply.

Impulse Turbines

Upon exiting the heat exchanger the super heated fluid (high pressure steam) at this point, is then channeled into the impulse turbines. Each reactor has three turbines, depending on the reactor level and load requirements one or more of the turbines will be active.

Generators

Each of the turbines is attached via a transmission to a generator. This allows the turbines to spin the generators. Each generator has integrated circuitry to ensure that the output is stable. Once the generator is up to speed (80% of rated capacity), the output is connected to the ship's power grid.

Condenser

After passing through the turbines the steam enters the condenser. This device cools and stores the steam so that it can be sent back through the heat exchangers. The waste heat is radiated into space through radiator fins.

Details

Design should specify fuel supply in time the reactor can operate at normal level.

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