

Vacuum Freezer

The **Vacuum Freezer** is a multiblock that super-cools its contents. It is mainly used to chill hot ingots from an Electric Blast Furnace into usable material, but can also cool certain liquids and cells. The Mega Vacuum Freezer and Cryogenic Freezer do similar recipes. This multiblock is required to access Titanium and progress to EV-tier.

Construction

A Vacuum Freezer is a hollow 3x3x3 structure. While it has a few LV recipes, most are HV+ and it's not recommended to build the freezer with anything less than HV capability. The standard progression reason for making this multiblock is to access Titanium, which requires either one HV Energy Hatch, or two MV Energy Hatches each being supplied with 2A each. With the exception of the controller, the freezer's buses and hatches can go anywhere on the exterior. The remainder of the structure is filled with Frost Proof Machine Casings. While not initially necessary, I/O hatches can be included to reduce the number of casings / aluminium required.

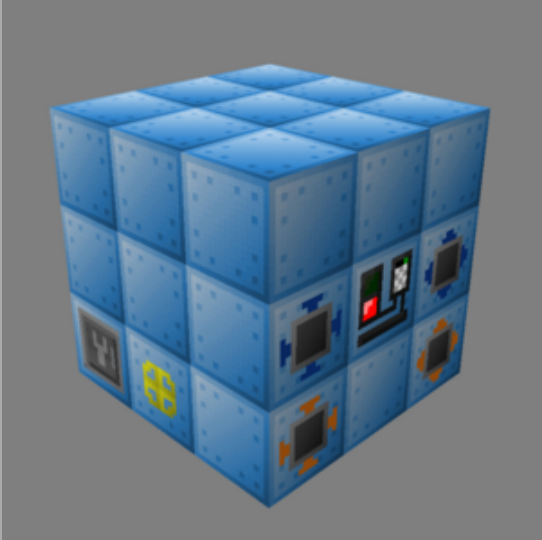
Requires:

- 1 Vacuum Freezer (controller); any side, centered
- 1 Maintenance Hatch; anywhere
- 1+ Energy Hatch (HV+ or x2 MV); anywhere
- 1+ Input Bus (any); anywhere, optional
- 1+ Output Bus (any); anywhere, optional
- 1+ Input Hatch (any), anywhere, optional
- 1+ Output Hatch (any), anywhere, optional
- 16-24 Frost Proof Machine Casings

Usage

Hot ingots or cells go to the Input Bus, and after successful completion of the recipe cold products will be placed in the

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Mod	Gregtech 5
Type	Tile Entity
Tooltip Text	Controller Block for the Vacuum Freezer, Cools hot ingots and cells
Relevant Quest	At the End of...
Tier	HV
Size	3x3x3
Pollution	none
Properties:	
Blast resistance	6
Hardness	5
Energy:	
Energy usage	Variable by recipe
Voltage in	as per Energy Hatch
Max amperage	as per Energy Hatch
Fluid capacity	as per Input Hatch
Item capacity	as per Input Bus

If the Vacuum Freezer does not work, refer to [troubleshooting guide](#).

Useful Tips

- The freezer does not need a Muffler Hatch, as it makes no pollution.
 - For the first Vacuum Freezer, a LV Input and Output Bus will be sufficient.
 - Like many other multiblocks, freezers can [wallshare](#) with other vacuum freezers.
 - Cooling times are shorter than heating times - a single freezer can keep up with multiple EBF's.
 - When upgrading the [Electric Blast Furnace](#), it's also recommended to upgrade the Vacuum Freezer accordingly. This is because ingots will start to have higher freeze times and voltage requirements as a player progresses through the Gregtech voltage tiers.
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