GT New Horizons

Large Chemical Reactor

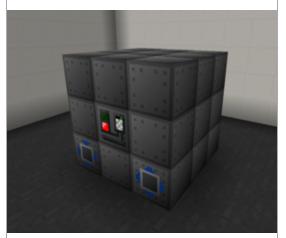
The Gregtech Large Chemical Reactor (LCR) is functionally a multiblock version of a regular, single-block chemical reactor. Like many other multiblocks, they can wallshare.

Construction

An LCR is a 3x3x3 structure that requires:

- 1 Controller block; any face, centered
- 1 Maintenance Hatch; anywhere
- 1+ Energy Hatch, anywhere
- 0+ Input Bus, optional, anywhere
- 0+ Output Bus optional, anywhere
- 0+ Input Hatch optional, anywhere^[1]
- 0+ Output Hatch, optional, anywhere^[2]
- 1 PTFE Pipe Casing, in the very center of the 3x3x3
- 1 Coil Block, any tier; must be physically touching the PTFE Pipe [3]
- 8-22 Chemically Inert Machine Casing, everywhere else
- 1. One Input Hatch required for each fluid ingredient of the recipe, unless using stocking input hatches.
- 2. One Output Hatch required for each fluid output of the recipe.
- 3. More than one coil block is not allowed in the multiblock structure. Higher tiers of coils have no benefit.

Large Chemical Reactor



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Relevant Quest Bring Me My Vat Of

Polyethelyne!

Tier HV

Size 3x3x3

Rotatable Yes

Energy:

Energy usage Variable

Overclocking 4/4

Usage

The LCR deals with pure liquid inputs/outputs; no cells are needed. Lock output hatches to specific fluids, and output busses to specific items, using a screwdriver or the GUI of the hatch. To lock it to the currently held fluid (or the next to enter in case of an empty hatch), use Shift-right-click. The LCR can be recipe locked by using a screwdriver on the controller. It wont process other recipes when applied. Otherwise, it can have multiple hatches for different recipes but will do only one recipe per operation. By default it will stop processing if there isn't enough room for the recipe products in the output buses/hatches. This behavior can be toggled in the controller GUI with Void Mode.

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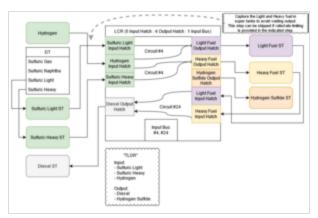
The LCR will <u>overclock</u> with 100% efficiency (very much like an EBF when it performs a "special" overclock). This means that, instead of the standard GT overclock of 4x energy/2x speed, an LCR will actually overclock with 4x energy/4x speed.

LCRs do not have input separation; a configured circuit in any input bus (or the controller) will apply for all inputs.

Key Differences Between Single-Block and Multi-Block

The LCR has several key differences from the singleblock chemical reactor:

- The LCR has special recipes that make certain chemical chains into an "all-in-one" recipe (note: in older versions of GT:NH, this may not be the case). For example, sulfuric acid can be made in a single step rather than multiple steps. Typically, such recipes involve the use of a Configured Circuit #24.
- One must also consider the ease of upgrading a multiblock vs upgrading a single block. Upgrading a multiblock usually involves a simple swap of the energy hatch with a new higher tier energy hatch, whereas upgrading a single block means having to build a whole new single block.



A single LCR can be used to make diesel with credit to bitonality

Troubleshooting

Problem	Solution
Wrong	Ensure the recipe is not locked. LCR's do not have Input Bus Separation and will potentially
Recipe	use another's circuit setting if <u>wallsharing</u> .

			Gregtech GTNH Edition	[Collapse]	
			Blocks	[Collapse]	
	Generators	Block	Combustion generator • Gas turbine • Steam turbine • Magic energy converter • Magic energy absorber • Lightning rod • Naquadah reactor • Plasma generator		
		Multiblock	Large steam turbine • Large HP steam turbine • Large gas turbine • Large plasma generator • Combustion engine • Extreme combustion engine		
	Machines	Utility	Transformer • Locker • Battery Buffer • Battery Charger		
		Processing	Alloy Smelter • Assembling Machine • Bending Machine • Canning Compressor • Cutting Machine • Electric Furnace • Extractor • Extra Macerator • Microwave • Printer • Recycler • Scanner • Wiremill • Compressor • Thermal Centrifuge • Ore Washing Plant • Packager • Chemical Reactor • Fluid Canner • Rock Breaker • Disassembler •	uder • Lathe • entrifuge • • Unpackager •	

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		Mixer • Precision Laser Engraver • Forming Press • Forge Hammer • Fluid Heater •	
		Slicing Machine • Sifting Machine • Arc Furnace • Plasma Arc Furnace • Electric Oven • Circuit Assembling Machine	
		Small Coal Boiler • High Pressure Coal Boiler • High Pressure Lava Boiler • Steam	
	Steam	Furnace • High Pressure furnace • Simple Solar boiler • High Pressure Solar boiler • Steam Macerator • High Pressure Macerator • Steam Extractor • High Pressure	
	Automation	Chest Buffer • Item Filter • Type Filter • Regulator • Super Buffer • Item Distributor • Recipe Filter	
	Fusion	Fusion Control Computer • Fusion Coil Block • Fusion Machine Casing	
Multiblocks	Machines	Bricked Blast Furnace • Oil/Gas/Fluid Drilling Rig • Concrete Backfiller • Infinite Oil/Gas/Fluid Drilling Rig • Electric Blast Furnace • Implosion Compressor • Vacuum Freezer • Multi Smelter • Distillation Tower • Large Boiler • Large Heat Exchanger • Charcoal Pile Igniter • Ore Drilling Plant • Pyrolyse Oven • Oil Cracking Unit • Large Chemical Reactor • Assembly Line • Cleanroom • Processing Array	
	Parts	<u>Dynamo Hatch</u> • <u>Energy Hatch</u> • <u>Input Hatch</u> • <u>Output Hatch</u> • <u>Input Bus</u> • <u>Output Bus</u> • <u>Maintenance Hatch</u> • <u>Auto Maintenance Hatch</u> • <u>Muffler Hatch</u> • <u>Data Access Hatch</u> • <u>Advanced Data Access Hatch</u>	
Machine Parts	Machine Hulls • Casings • Frame Box • Coil Blocks • Gear Box • Pipe casing • Superconducting Coil Block • Firebox Casing • Grate Machine Casing • Filter Machine Casing • Hermetic Casing		
Transport	Wires • Cables • Fluid Pipes • Item Pipes • Microwave Energy Transmitter • Long Distance Fluid Pipeline • Long Distance Item Pipeline • Stocking Input Bus (ME) • Stocking Input Hatch (ME) • Advanced Stocking Input Bus (ME) • Advanced Stocking Input Hatch (ME)		
Storage	Super Tank • Super Chest • Quantum Tank • Quantum Chest		
Building	Granite • Concrete • Marble • Basalt • Yellow stripes block • Hazard sign block		
Other	Teleporter • Pump • Monster Repellator • Seismic Prospector • Miner • Materials • Ores		
GTNH Coremod	Electric Air Filter • Turbo Charger • Name Remover		
GTNH lanthanides	Digester • Dissolution tank		
KekzTech	Solid-oxide Fuel Cell • T.F.F.T • Lapotronic Supercapacitor • T.F.F.T Multi I/O Hatch		
Galaxy Space	Dyson Swarm Ground Unit • Planetary Gas Siphon		
Electro magic tools	Large Essentia	a Generator • Research Completer	
Hydro dam	Hydro Dam • H	Hydro Pump • Hydro Turbine	
Removed	Bronze Plated	Blast Furnace	
		Items [Collapse]	
Tools	Sonictron • I	Portable scanner • Debug scanner • Match • Match box • Lighter • Platinum Lighter • Prospector's scanner • Braintech aerospace advanced reinforced duct tape FAL-84 • paste tool • Turbines	
Organics	Crops • Drin	ks • Food	
Circuits		eles • Wafers • Integrated circuits (IC) • Circuitry components • Circuits (tiered) • Circuit ta orb • Data stick	
	Battery hull	• Acid battery • Mercury battery • Cadmium battery • Lithium battery • Sodium battery •	

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Nuclear Control	Gregtech sensor card • Gregtech sensor kit		
Containers	Cell • Empty crate • Glass Arrow Head • Regular arrow • Light arrow • Plastic fluid can • Spray can • Empty thermos can • Large fluid cell • Volumetric flask		
Configuration	Programmed circuit • Schematics • Empty shape plate • Molds • Extruder shapes • Slicer blades		
Upgrades	Muffler upgrade • Lock upgrade		
Redstone	Redstone transmitter • Redstone receiver		
	Tiered covers • Robot arm • Fluid regulator • Fluid filter cover • Field generator • Emitter • Sensor •		
Covers	Machine controller cover • Activity detector cover • Fluid detector cover • Item detector cover • Energy detector cover • Player detector cover • Computer monitor cover • Crafting table cover • Drain module cover • Needs maintenance cover • Shutter cover • Solar panels • Item filter cover (export) • Item filter cover (import)		
Colors	Dyes • Spraycans		
Nuclear	Coolant cells • Fuel rods • Iridium neutron reflector • 1G Neutronium heat capacitor		
Parts	Dust • Nuggets • Ingots • Plates • Gems • Rod • Lens • Round • Bolt • Screw • Ring • Foil • Casing(Item) • Turbine blade • Fine wireame • Small gear • Gear • Rotor • Long rod • Small spring • Spring		
Miscellaneous	Diamond sawblade • Diamond grinding head • Tungsten grinding head • Iridium alloy ingot • Printed pages • Coins • Planks • Book • Iron minecart wheels • Steel minecart wheels • Heavy duty alloy ingot • Gelled toluene • Super fuel binder • Magic super fuel binder • Quantum eye • Quantum star • Gravi star • Compressed fireclay • Firebrick • Glass fiber		
Removed/Not ingame	Bronze plated blast furnace • Integrated circuit • Item filter • Enchanted page • Enchanted pages • Magic paper • Punch card • Punched card • The holy planks of sengir • Serious bug block • Microwave oven manual • Printer manual v2.0 • Punch card manual v0.0		

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