## Overview

Some items are easy to find others are not. This addon was developed with the intension of making some items available via a different means than just mining.

Using fluids as the base, we can apply heat to the evaporator in order to reduce down the fluid and leave behind an item.

## Recipes

Evaporator

1. 2 x copper sheets + Anvil + Anvil Plan = Copper Evaporator Pan

Salt Evaporation

1. Salt Water -> Salt – Evaporation Ratio

## Process

1. Create the evaporator pan.
2. Fill the evaporator pan with fluid.
3. Wait for the process to start -
   1. Daylight hours (6am – 6pm)
   2. Light level > 10 (config option)
   3. Temperature > 30 (config option)

## Notes

1. The maximum amount of fluid contained within the evaporator pan is 2000mB.
2. The fluid evaporation will be 1mB / 10 ticks (100mB / in game hour).
3. Need to implement a recipe model – Fluid In -> Item Out.
4. Recipes need to specify the input fluid, output item and fluid amount.
5. The fluid will only dissolve during daytime, light level > 10 and temp > 30.
6. When processing show particles.
7. Implement config options for temp and light level.
8. When the player picks up the pan, all fluid is drained and any output items are ejected into the world.
9. Fluid evaporation count will be recorded and stored until an output item is created, then it will be reset.
10. If the fluid completely drains or is removed, then the fluid evaporation count will be reset.
11. If the maximum stack size of the output item is reached, then the fluid will still evaporate and the item stacks will just be spawned into the world.
12. Fluid can be added to the pan at any time to continue the process.
13. Pans are not stackable and do not take damage.
14. Pans should be storable in chests.
15. Need to use a language resource file.

## In Game Objects

1. EvaporatorPanManager
2. EvaporatorPanRecipe
3. BlockEvaporatorPan
4. TileEntityEvaporatorPan
5. GuiEvaporatorPan
6. ContainerEvaporatorPan
7. RenderEvaporatorPan
8. SlotEvaporatorPanOutput
9. ItemEvaporatorPan
10. EvaporatorPan anvil plan
11. EvaporatorPan anvil recipe
12. EvaporatorPan block images
13. EvaporatorPan item image
14. EvaporatorPan Gui image
15. Salt evaporator recipe

## Mod Creation Workflow