

Baron·*Blakeslee*

Vapor Degreasing Advantages

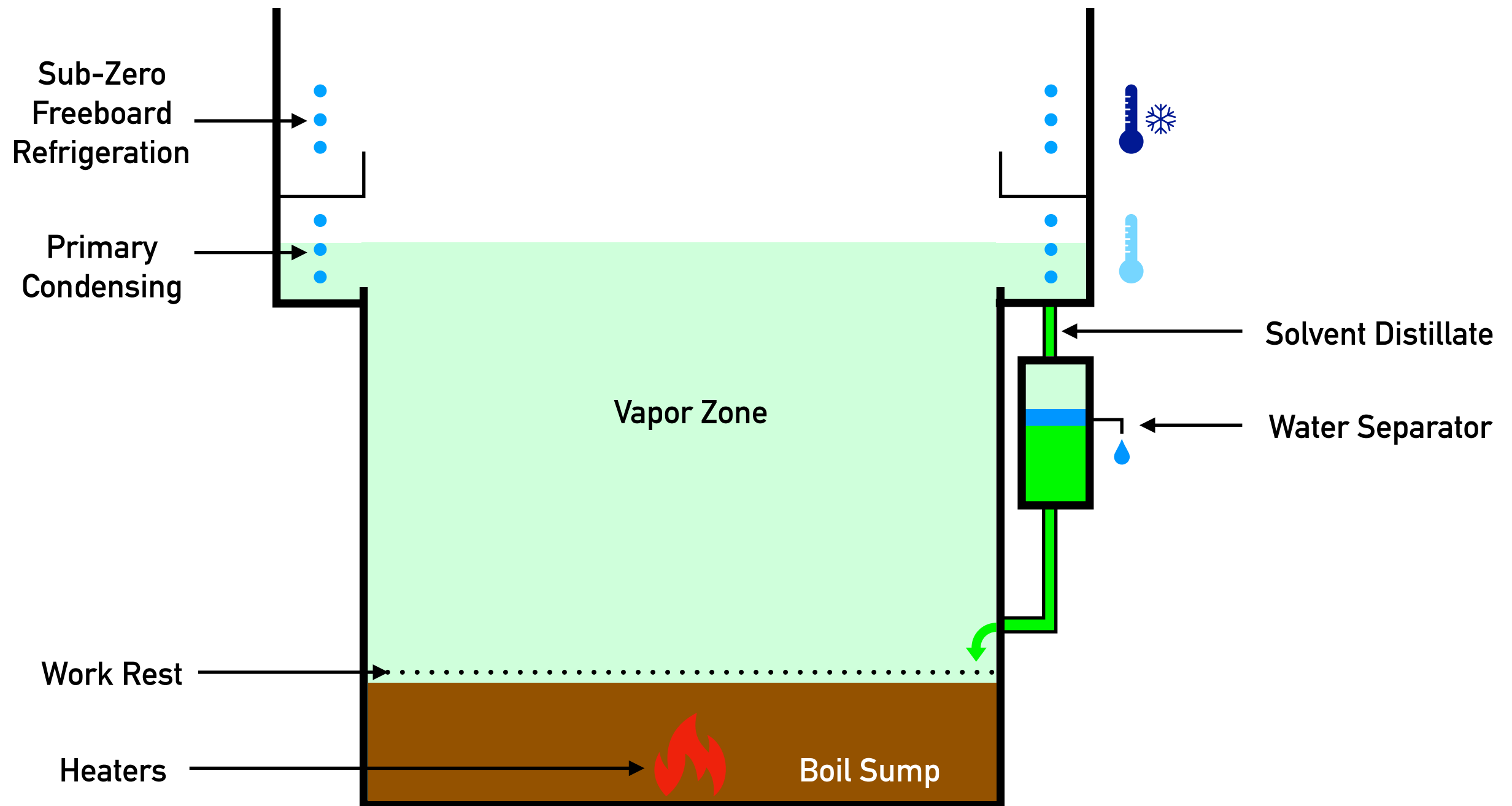
Vapor Degreasing



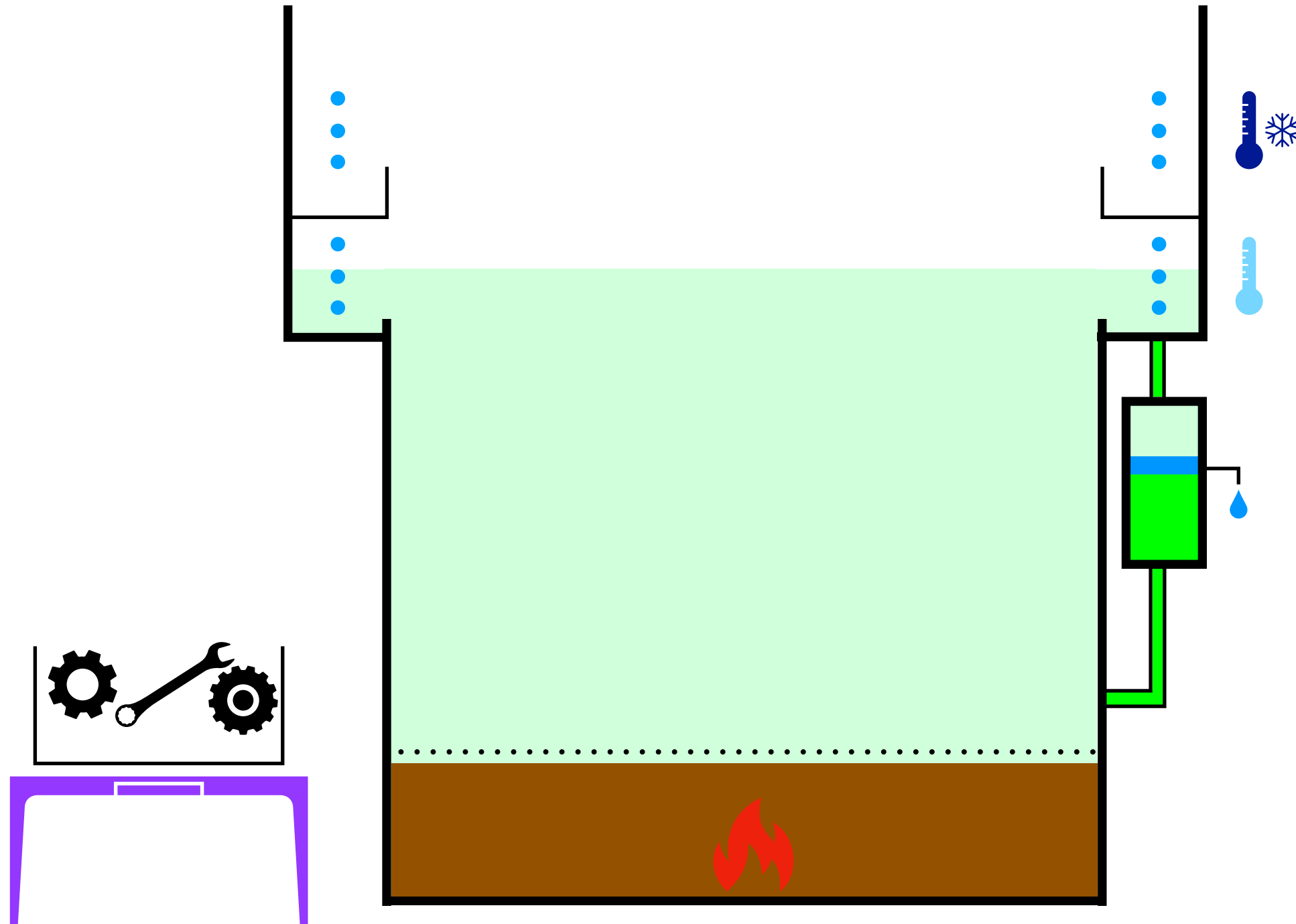
- A Surface Finishing Process Used To Clean Parts.
- Uses Non-Flammable, Non-Combustible Solvents.
- Halogenated Hydrocarbon Solvents.
- Primarily Used To For Removal Of Organic, Non-Polar Soils.



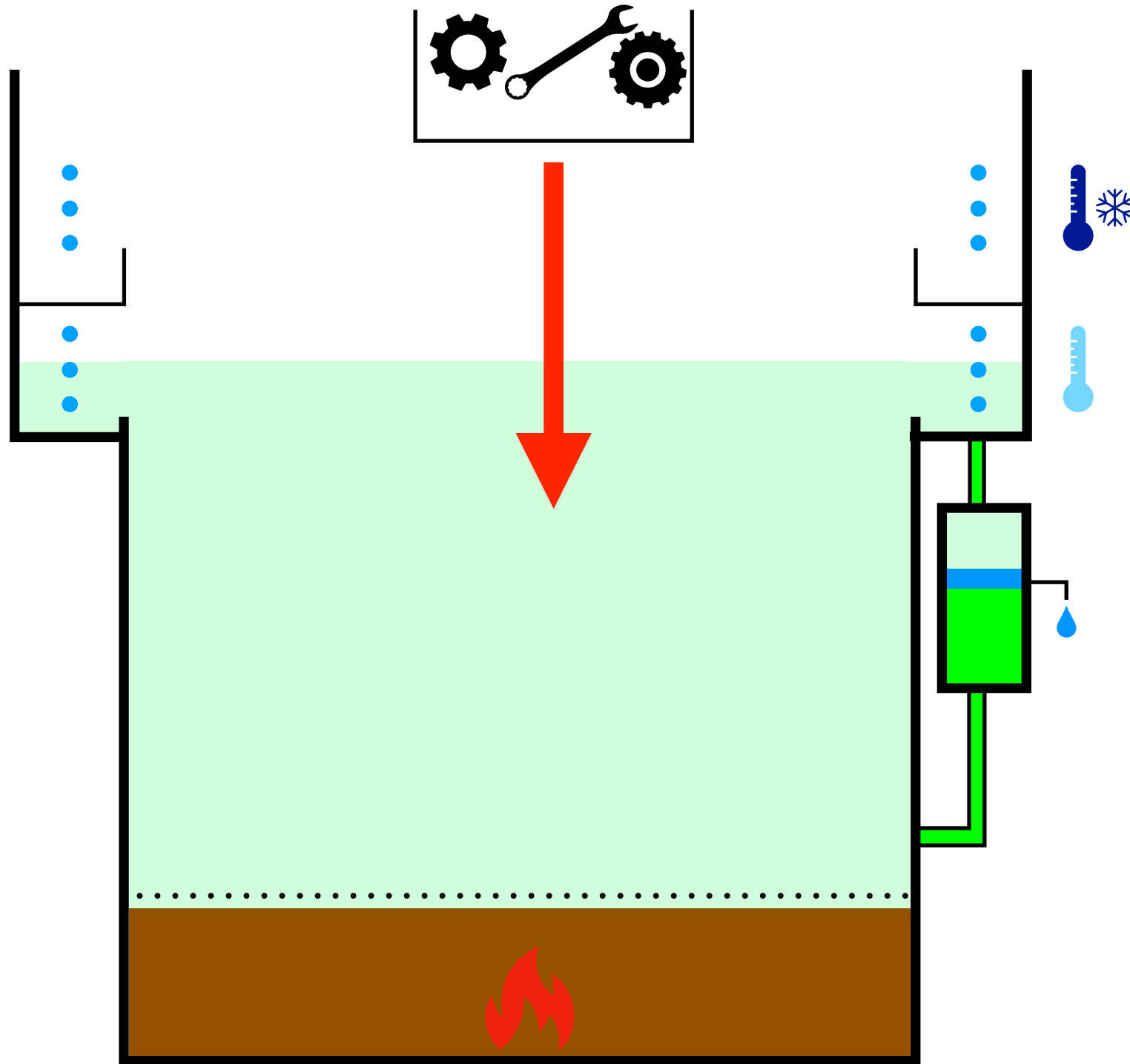
Vapor Only Degreaser



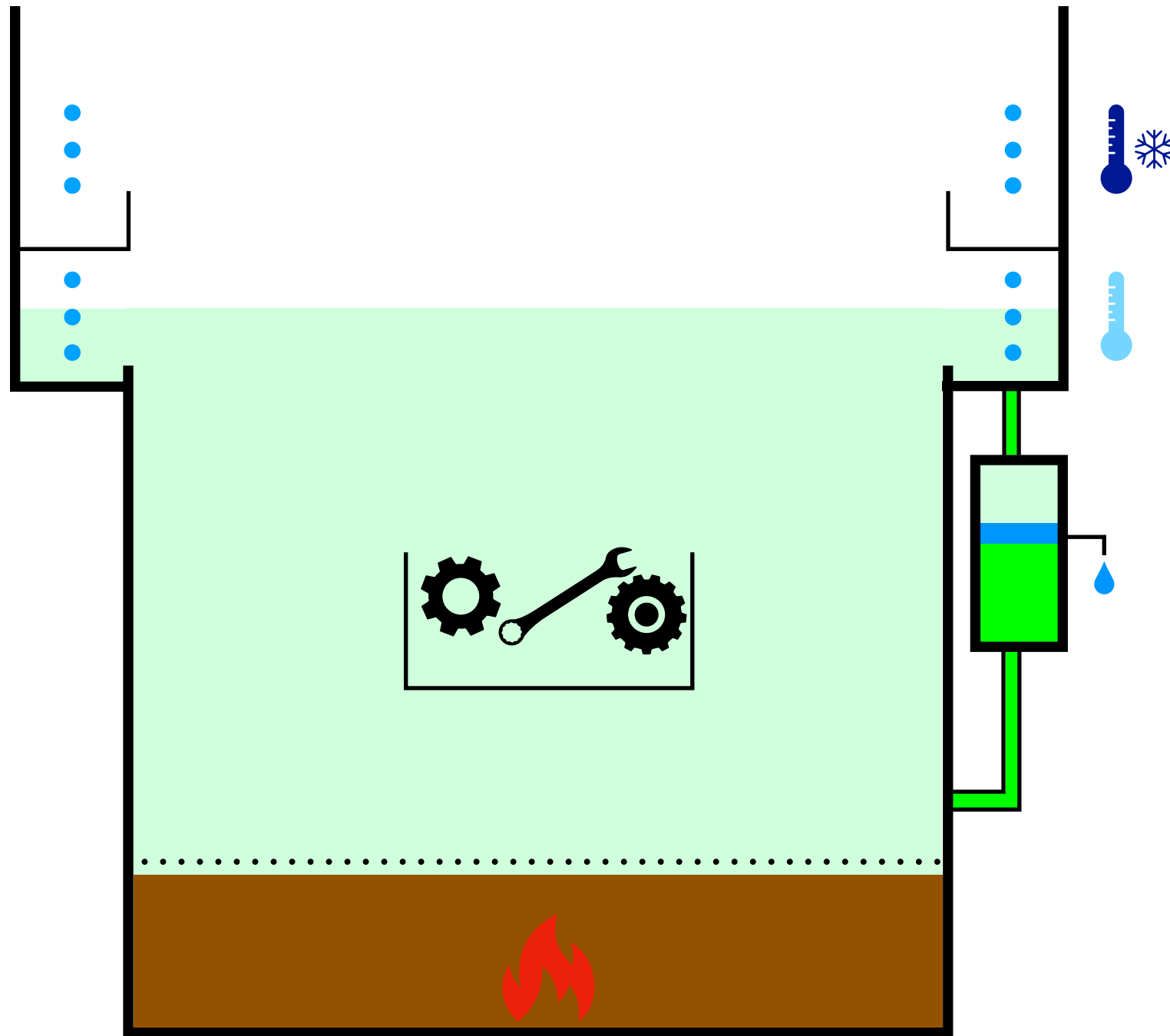
Dirty Parts



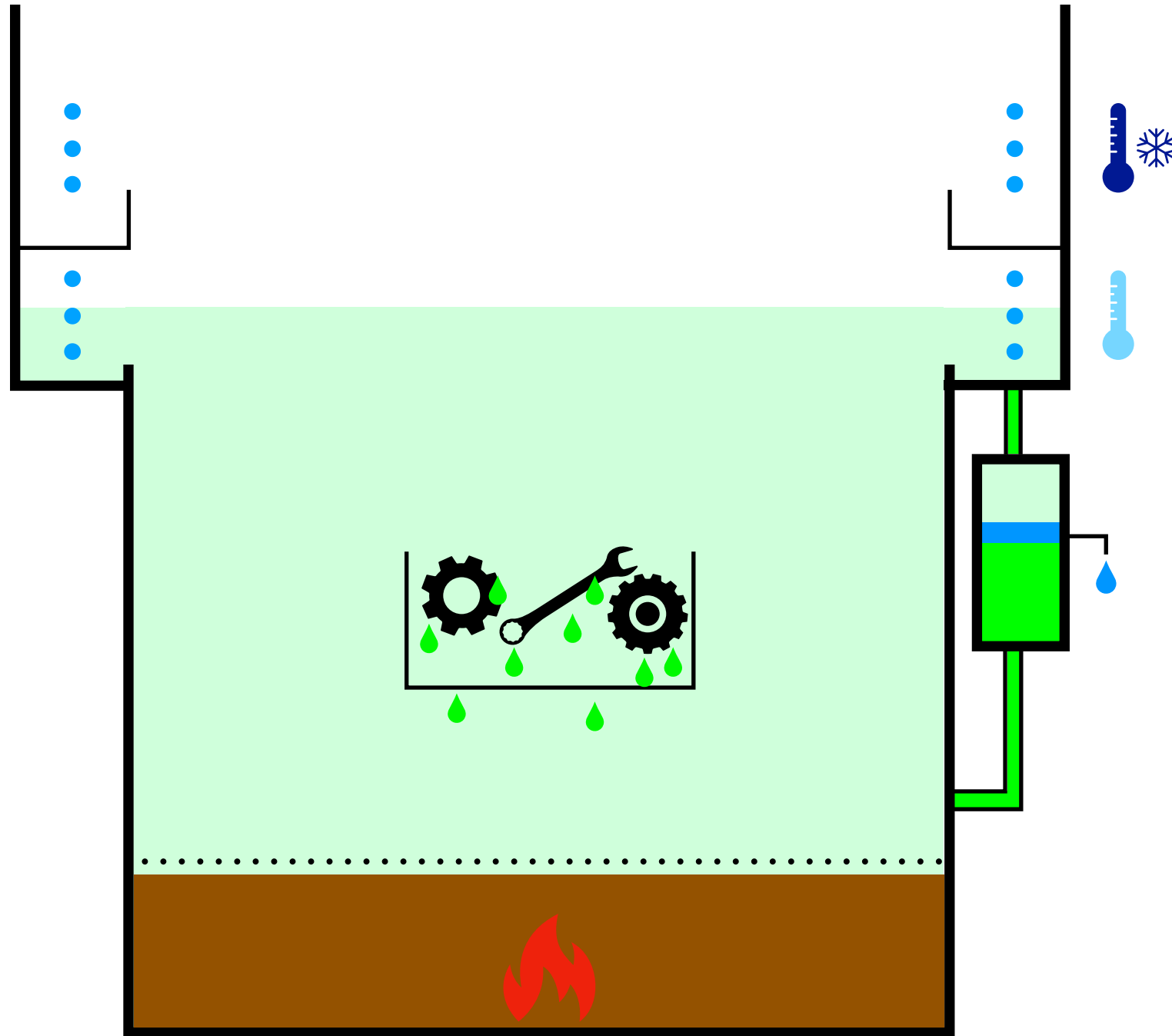
Dirty Parts Placed In Degreaser



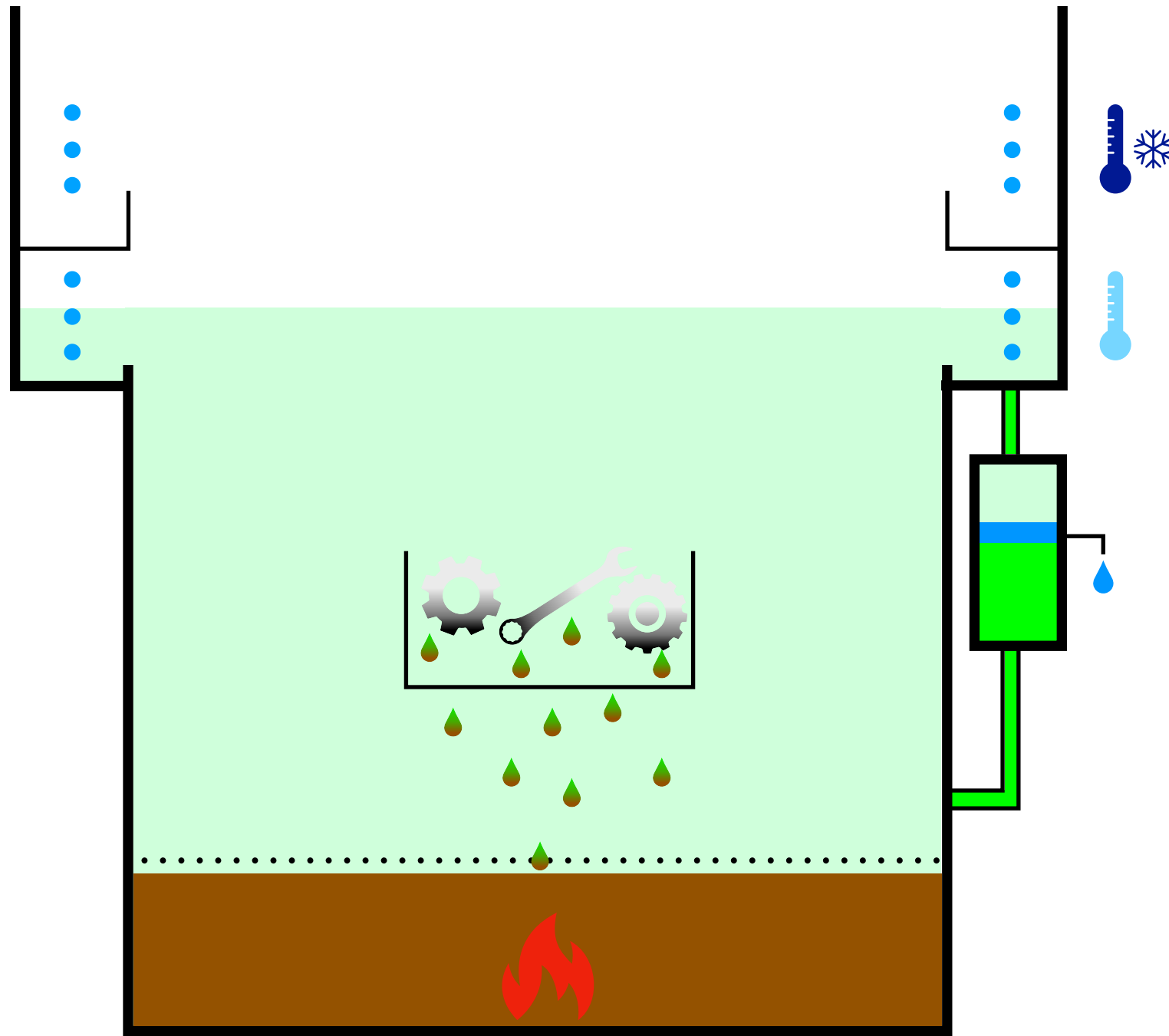
Vapor Dwell



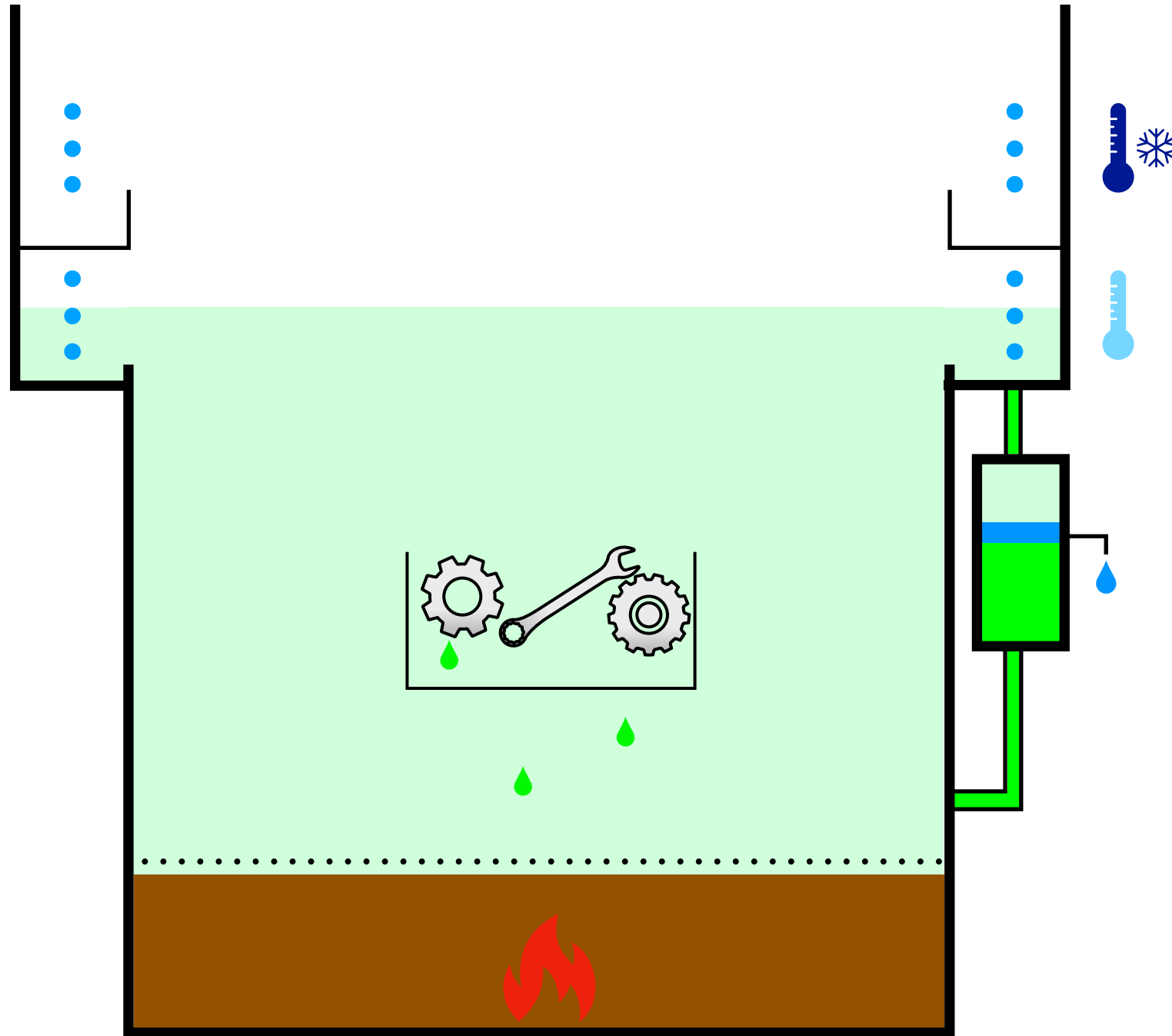
Solvent Condensation



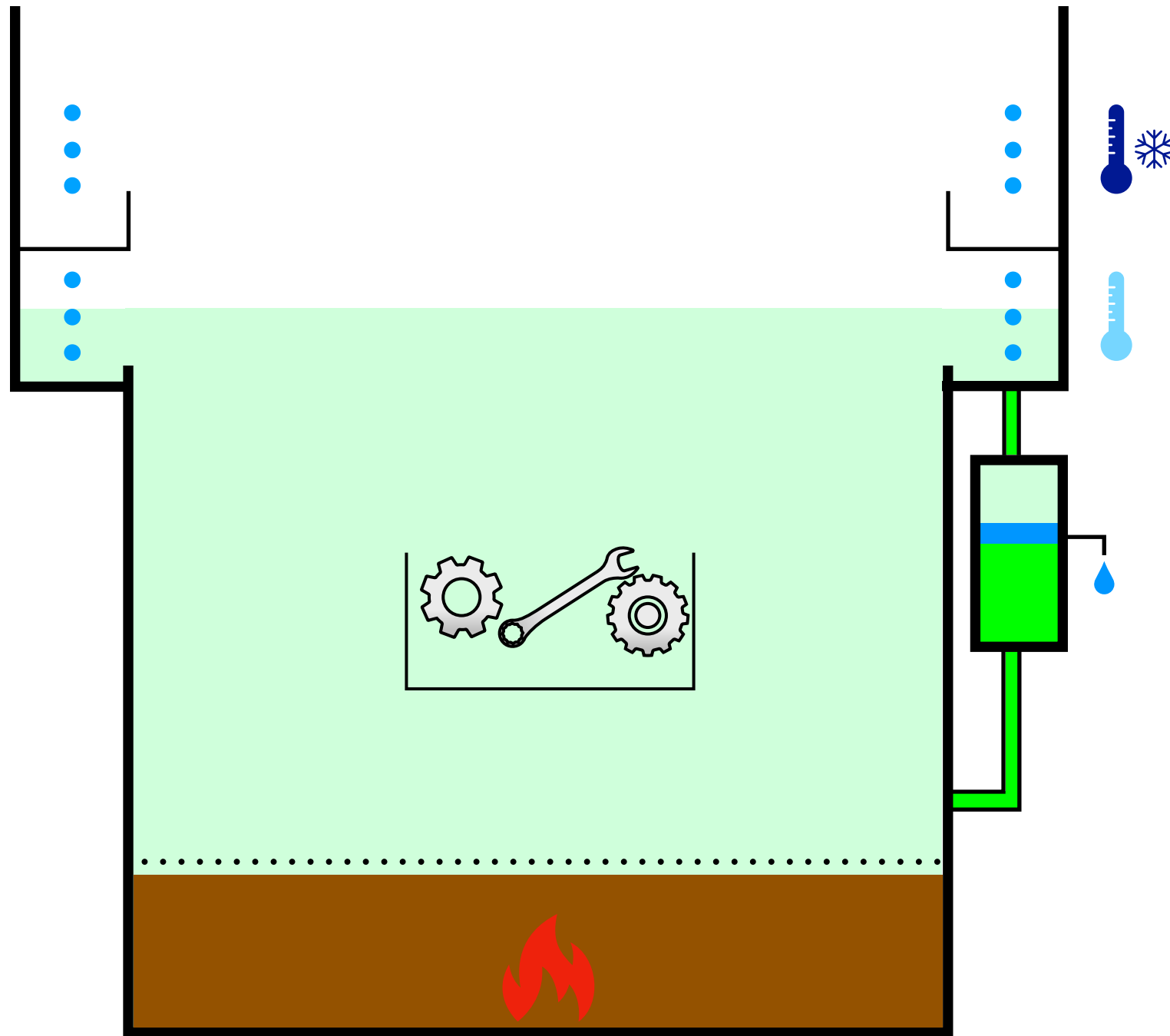
Contaminants Dissolve In Condensing Solvent



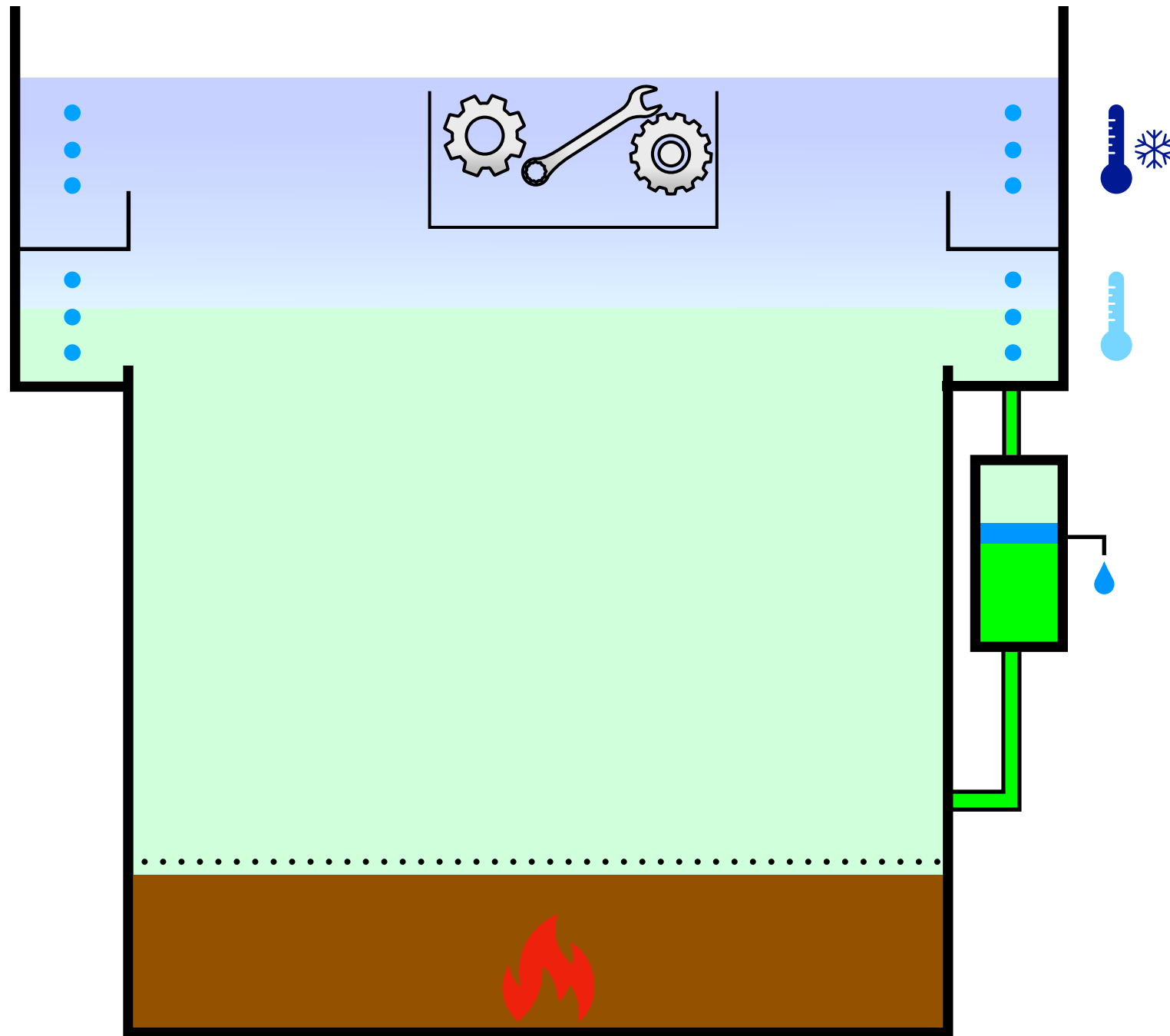
Contaminants Removed



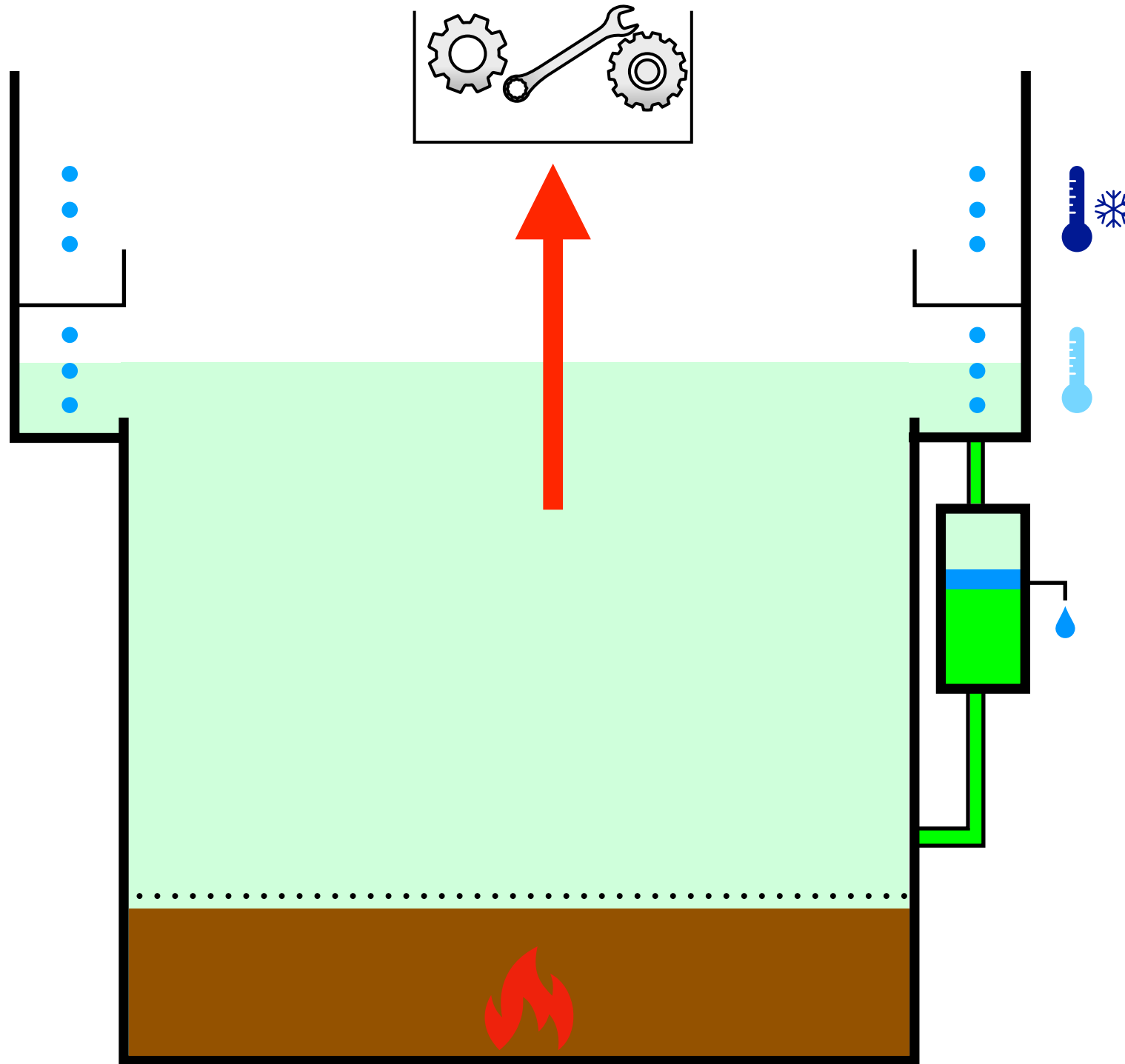
Drying



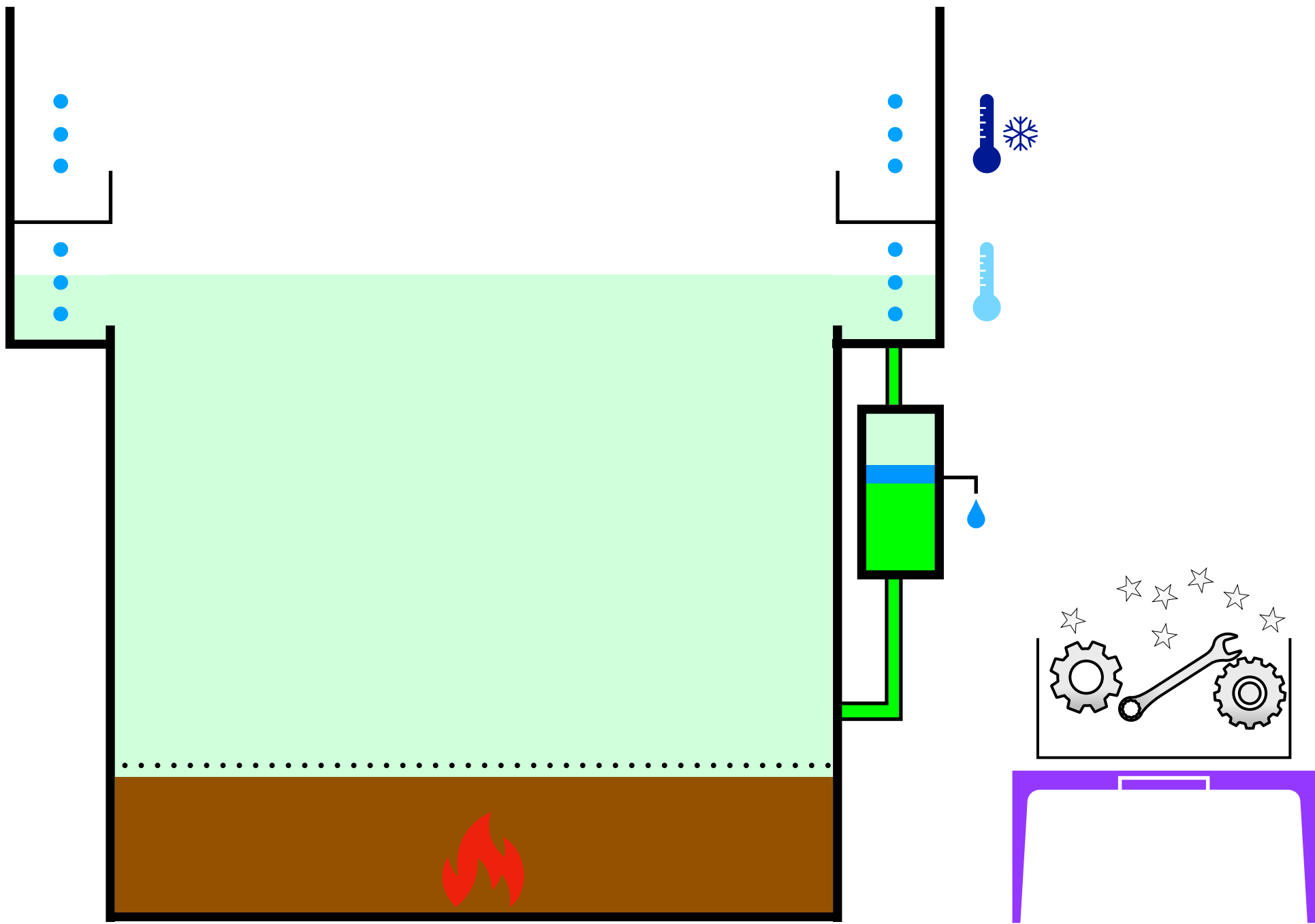
Freeboard Dwell



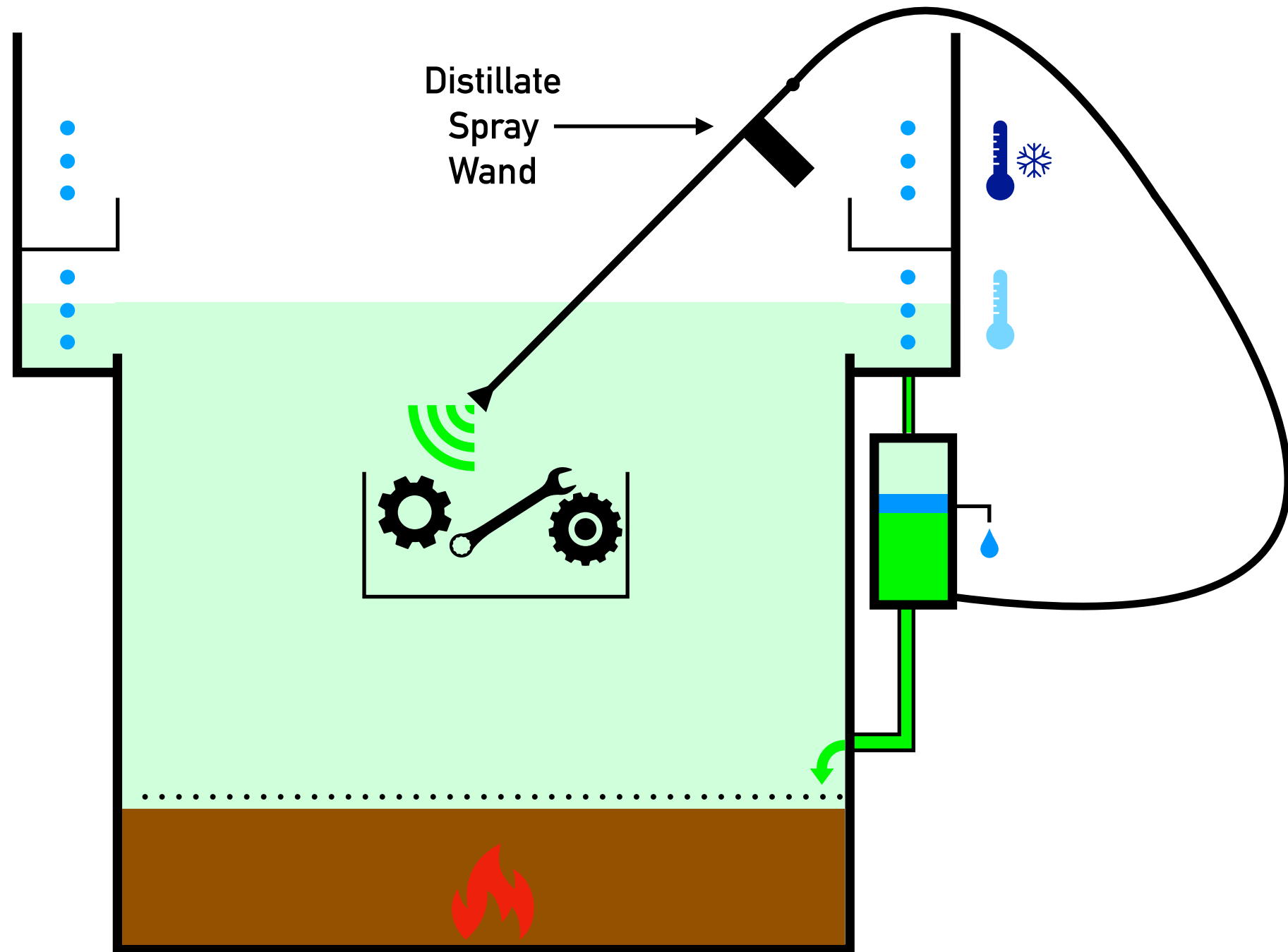
Clean Parts Removed From Degreaser



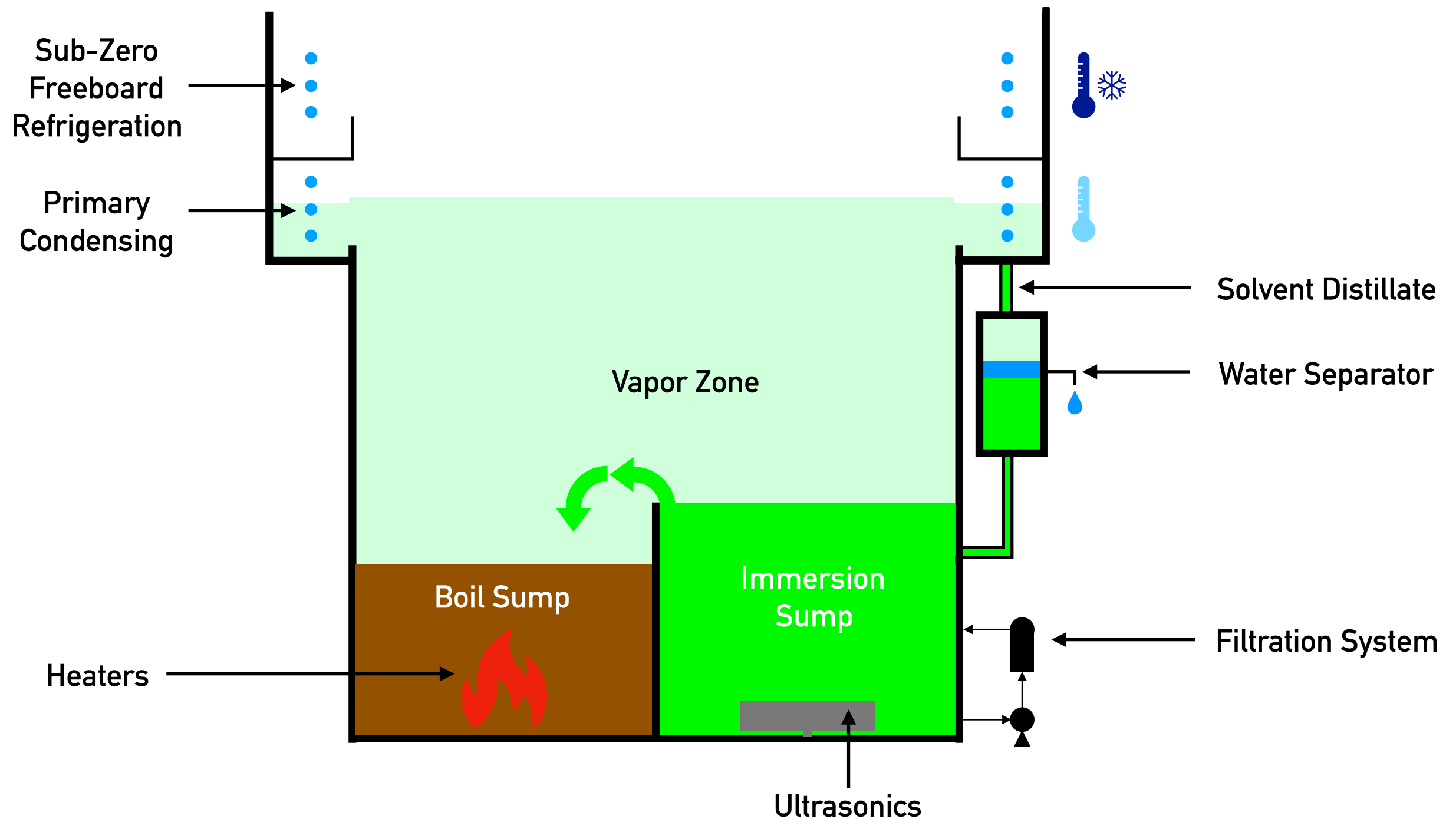
Clean Parts!



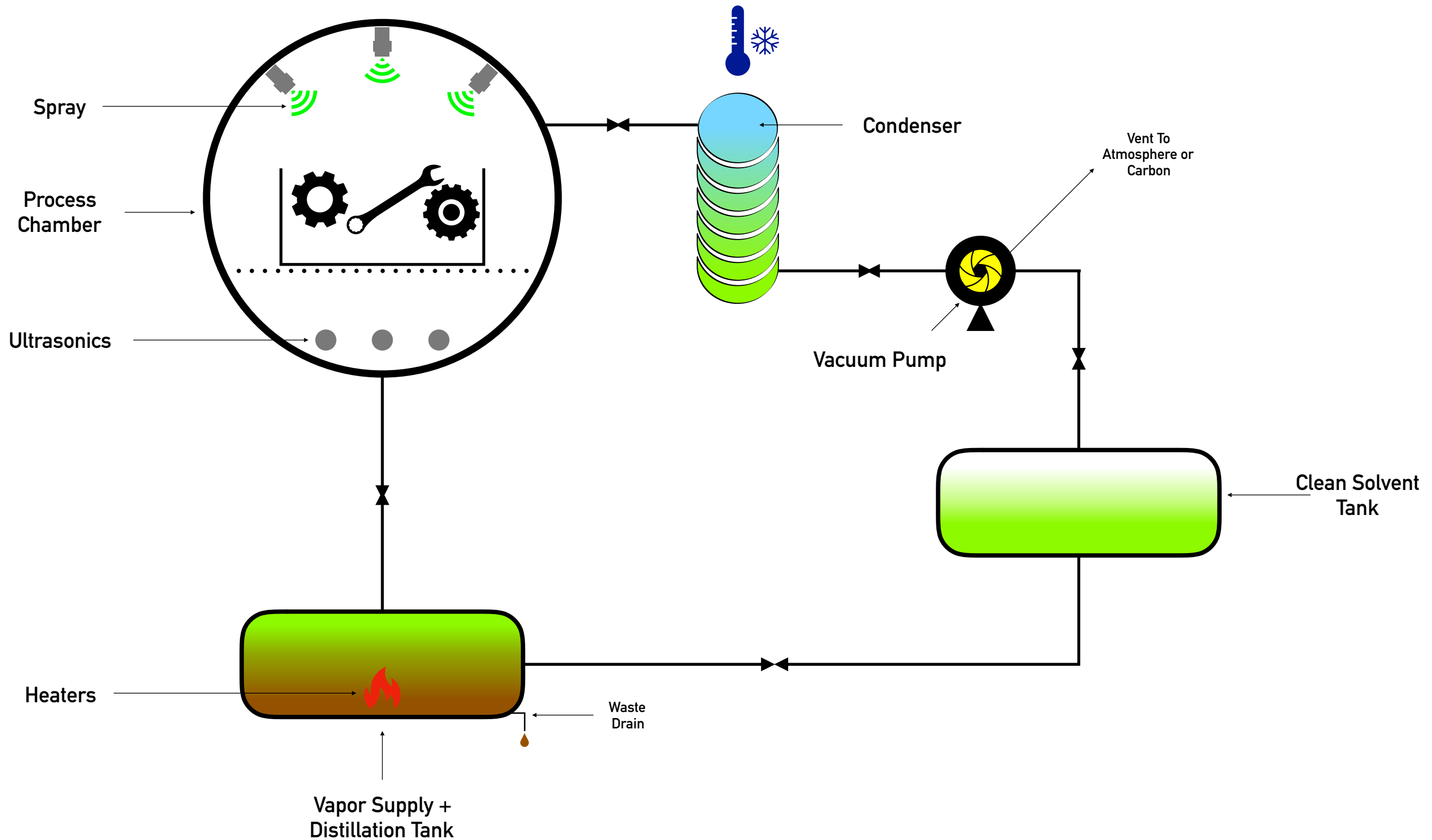
Vapor / Spray Degreaser



Immersion Degreaser



Airless Degreaser



Favorable Chemistry



- “Like Dissolves Like”: an organic, non-polar solvent is used to dissolve a like soil.
- Residue free process potential.
- No issues with streaking, staining & spotting as with an aqueous process.
- Multi-metal compatibility.
- Purification through distillation.
- Waterless.



Better Cleaning



- Solvents have lower surface tension & lower viscosity than water.
- Solvents “wet” surfaces more effectively than water.
- Solvents easily penetrate tight spaces.
- Solvent vapor contacts all surfaces.



Faster



- Greater solvency for non-polar, organic soils.
- Faster energy recovery for more rapid cleaning & drying.
- Fewer process steps compared to aqueous.
- Low process temperature; clean parts are cool to the touch.
- Cleaned parts immediately ready for next process.



Consistent



- Continuously self purifying.
- Minimal potential for soil redeposition.
- Few process variables.
- Automation friendly.



Energy Efficient



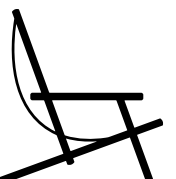
- Solvents have lower specific heat than water.
- Lower energy consumption.
- Fewer electrical components.
- Reduced process temperature.



Simplicity



- Ease of process control.
- Fewer process variables.
- Minimal maintenance requirement.



Compact Size



- Smaller footprint.
- Fewer ancillary items.
- Minimal utility connections.
- Ideal for cellular manufacturing scenarios.
- Lower space cost.



Waste Disposal



- Solvents are easily recyclable.
- Solvent waste disposal costs typically lower than aqueous waste.
- Solvent waste has fuel value.
- Many vapor degreasing solvents are non-hazardous.



Ecology



- Potential for lower environmental impact.
- Lower power consumption.
- Recyclable waste.
- No water consumption or treatment required.
- True “closed loop” processing possible.
- Quiet.

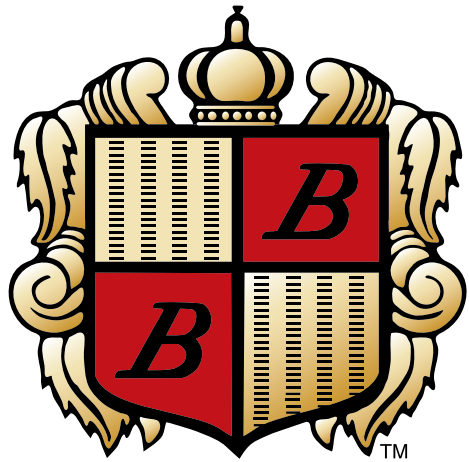


Economic



- Lower consumables cost.
- Lower power consumption.
- Low cost waste disposal.
- Reduced maintenance costs.
- Faster cycle times, increased productivity & throughput.
- Smaller footprint, lower cost of space.





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