



Smart LabHood Solutions (SLS)

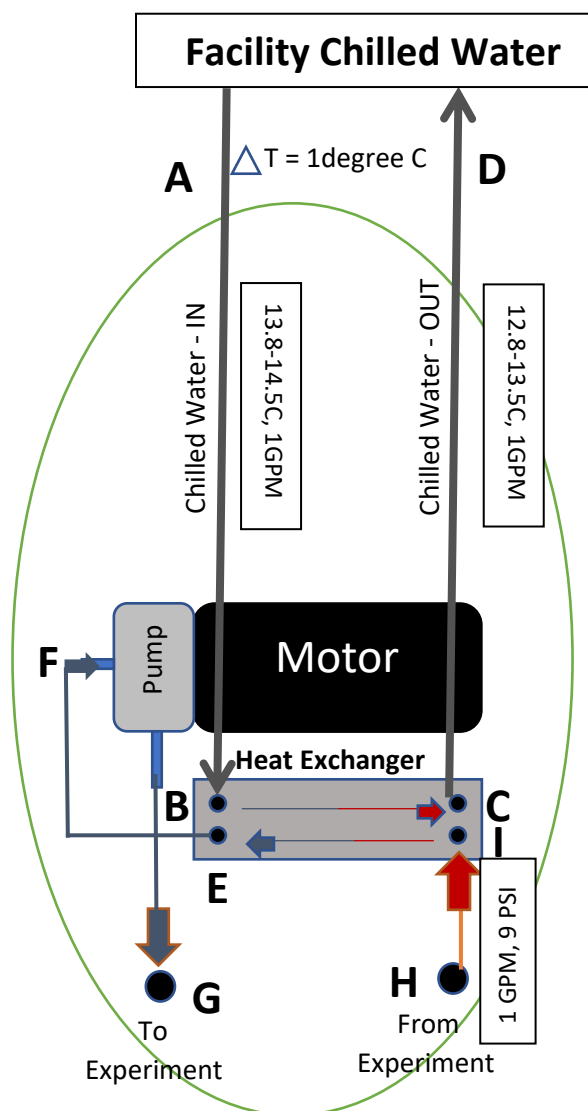
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Overview:

The EcoDenser is a closed loop device used in synthetic chemistry experiments for the purpose of condensing vapor in the process of solvent extraction. It is an alternative to the commonly used method of tap water flowing through a condenser and into a hood drain. The EcoDenser utilizes the building chilled water system (Primary side) - chilled water flows through a heat exchanger and back into the system. The Secondary side (approx. 16 ounces of distilled water) flows through the experiment condenser and through the heat exchanger for cooling. The chilling requirement in this type of experiment is targeting the vapor temperature (for condensation), versus the boiling point of the solvents.

More information on the EcoDenser can be found at: smartlabhood.com.

Current EcoDenser Schematic



Primary Loop: A-D, Secondary Loop: E-I



Back Side of EcoDenser