

Hydraulic Assisted Cooling System (HACS)

Disclosure Number

201403407

Technology Summary

The invention relates to air conditioning systems and more specifically to improvements to reduce energy consumption in such systems. This cooling system has a theoretical cooling COP limit of about 6. Another novel aspect of this cooling system is the mechanical to mechanical work recovery system that can be efficiently done utilizing smart flywheel system. Also the air moisture will be naturally extracted from the air stream during the semi-isothermal compression process.

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