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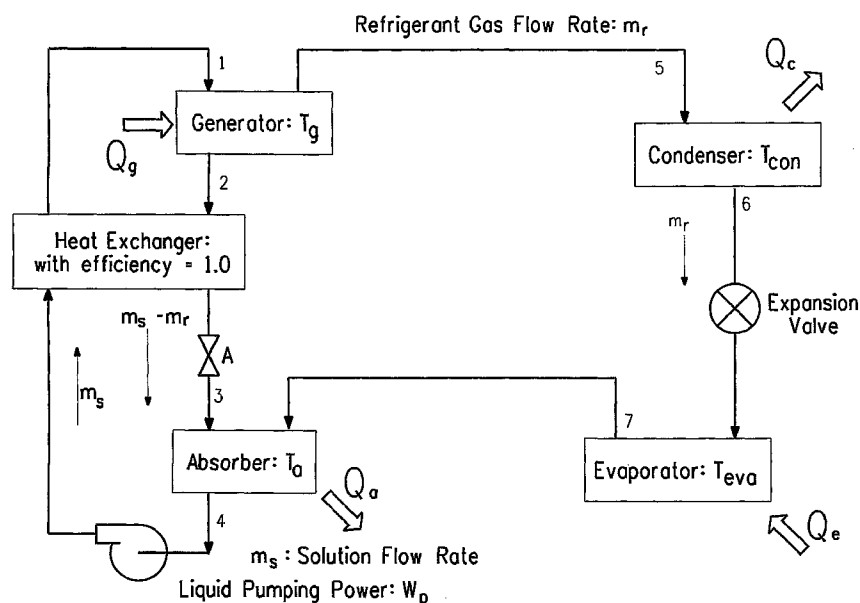
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- (54) **Title:** HYBRID VAPOR COMPRESSION-ABSORPTION CYCLE



- (57) **Abstract:** The present invention relates to a hybrid vapor compression - absorption cycle comprising a refrigerant pair comprising at least one refrigerant and at least one ionic liquid. The present invention also provides a hybrid vapor compression - absorption cycle that utilizes fluorocarbon gases in fluorinated ionic liquids. The present invention also provides a method of cooling using an hybrid vapor compression - absorption cycle comprising a refrigerant pair comprising at least one refrigerant and at least one ionic liquid. The present invention also provides a method of heating using an hybrid vapor compression - absorption cycle comprising a refrigerant pair comprising at least one refrigerant and at least one ionic liquid.

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