

SUPPLEMENTARY INFORMATION

Performance results for the AGDD-MSRED heat engine under the same operating conditions of the HGDD-MSRED heat engine.

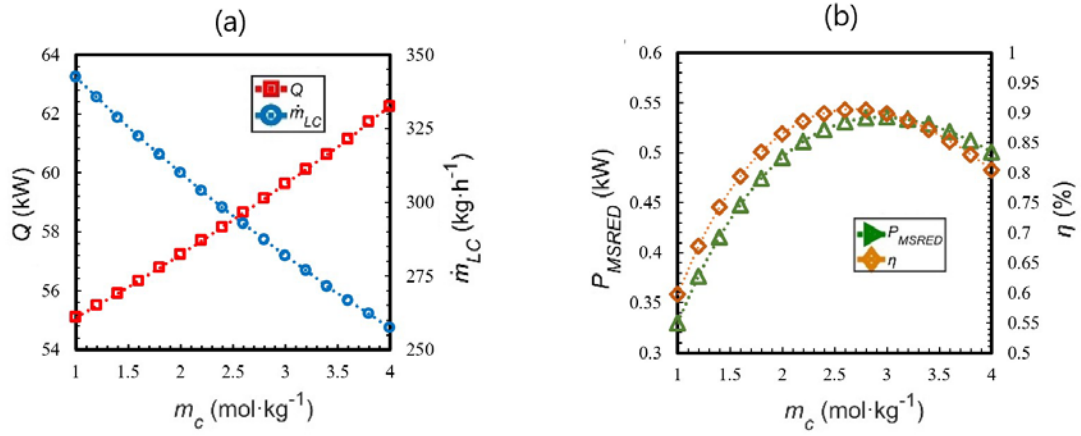


Fig. S1 Influence of molality of cold stream m_c .

(a) On total LGH consumption Q and productivity of LC solution \dot{m}_{LC} ; (b) on output power of MSRED P_{MSRED} and energy conversion efficiency of heat engine η .

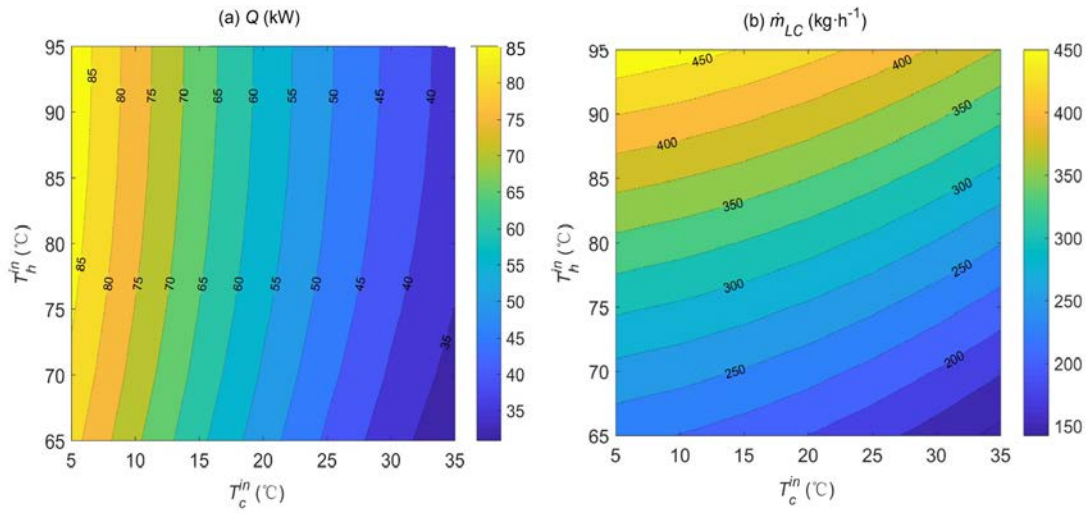


Fig. S2 Influence of inlet temperature of hot and cold streams.

(a) On total LGH consumption Q ; (b) on productivity of LC solution \dot{m}_{LC} .

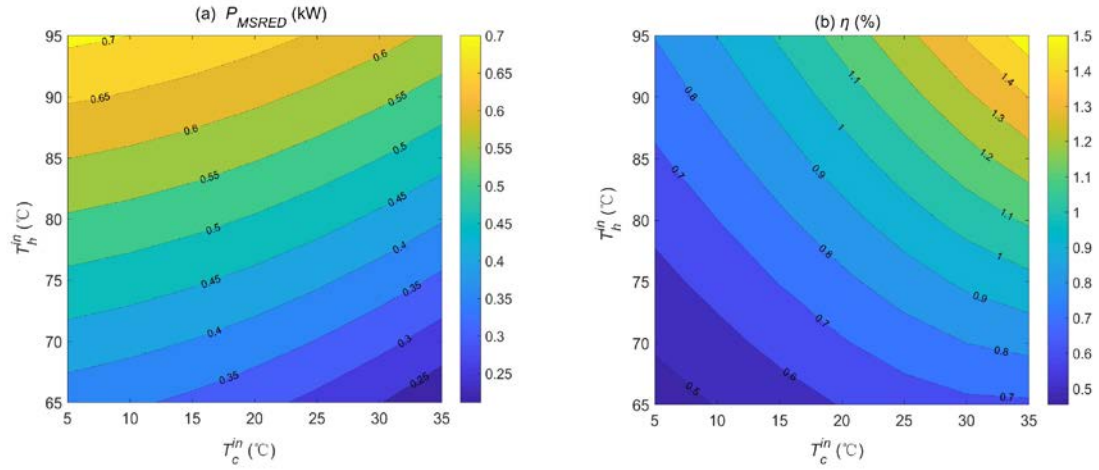


Fig. S3 Influence of inlet temperature of hot and cold streams.

(a) On output power of MSRED P_{MSRED} ; (b) on energy conversion efficiency of heat engine η .

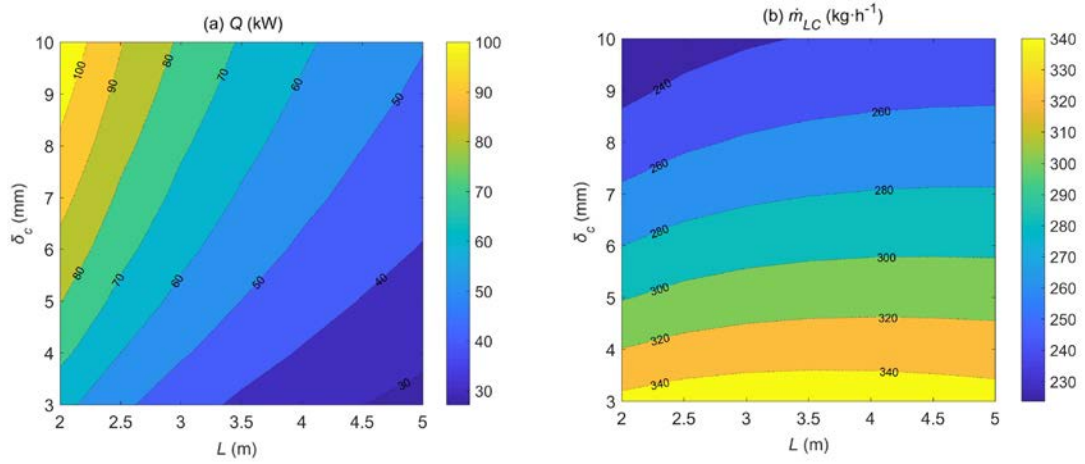


Fig. S4 Influence of thickness of helium gaps δ_c and length of stream channels L .

(a) On total LGH consumption Q ; (b) on productivity of LC solution \dot{m}_{LC} .

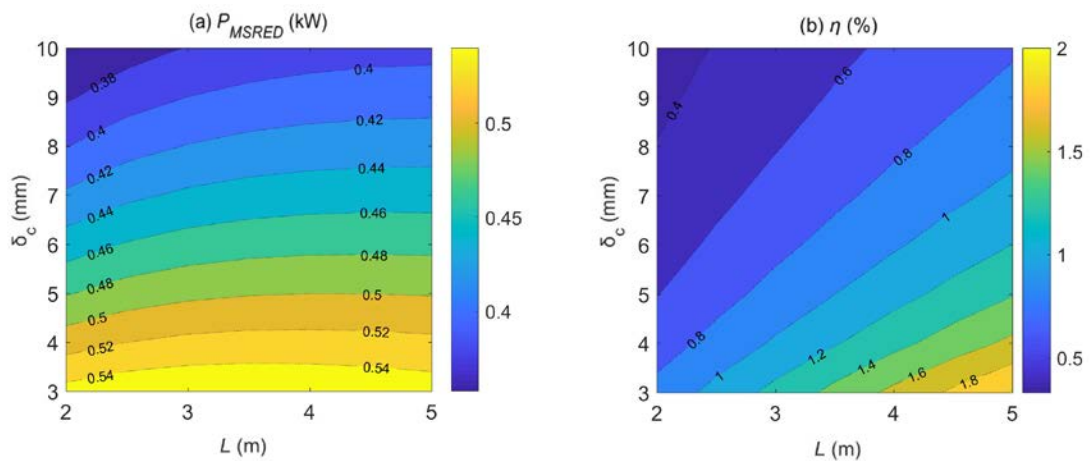


Fig. S5 Influence of thickness of helium gaps δ_c and length of stream channels L .

(a) On output power of MSRED P_{MSRED} ; (b) on energy conversion efficiency of heat engine η .