

4. In a certain steam engine, the boiler temperature is 127°C and the compressor temperature is 27°C . While this engine does 2.0 kcal of work, the amount of heat discharged into the compressor must be at least

A. 6.0 kcal

B. 8.0 kcal

C. 2.5 kcal

D. 0.5 kcal

E. 4.0 kcal

F. Not close to any of the above

Ans. _____