

10 A water pump is driven by an engine. The pump raises a volume of 0.50 m^3 of water in 1.0 minute from a depth of 30 m. The pump has an efficiency of 70%.

The density of water is 1000 kg m^{-3} .

What is the useful output power from the engine?

A 2.5 kW

B 3.5 kW

C 150 kW

D 210 kW