



Condenser

Is it possible to have a pressure of 5 kPa in a condenser that is placed near a river and cooled by the water of the river that has a temperature of 10°C? And in a condenser that is placed in the desert and cooled with outside air of 35°C?

Answer: C.

Explanation: Only for the one near the river, because the saturation temperature of steam at 5 kPa is 35.87°C, which is much higher than the temperature of the cooling water, but lower than the temperature of the air in the desert.