Stream of water is costed from heated from 14°C to 22°C using low pressure saturated steam at 30°C. The steam condensed over the cold water pipe and collected at bottom at 30°C. Surface area of cold water pipe is 45 m², latent heat of condentation is 2431 KJ and overall heat transfer Wiff. & between cold water and condensing steam is 2100 wm2k. Calculate the flow rate of 3 team and water to othieve desired heating.

