21. The change in volume of the liquid is given by $\Delta V = \beta V \, \Delta T$. If A is the cross-sectional area of the tube and h is the height of the liquid, then $V = Ah$ is the original volume and $\Delta V = A \, \Delta h$ is the change in volume. Since the tube does not change the cross-sectional area of the liquid remains the same. Therefore, $A \, \Delta h = \beta A h \, \Delta T$ or $\Delta h = \beta h \, \Delta T$.