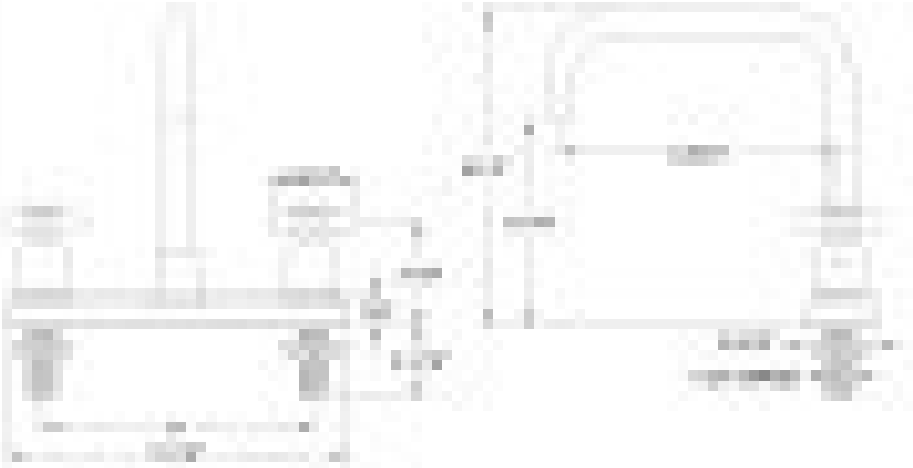FIG 21.4 & 21.5