We study embeddings between tensor products of weighted reproducing kernel Hilbert spaces. The setting is based on a sequence of weights $\gamma_j > 0$ and sequences $1 + \gamma_j k$ and $1 + l_j$ of reproducing kernels $k$ such that $H(1 + \gamma_j k) = H(1 + l_j)$, in particular. We derive necessary and sufficient conditions for the norms on $\bigotimes_{j=1}^{s} H(1 + \gamma_j k)$ and $\bigotimes_{j=1}^{s} H(1 + l_j)$ to be equivalent uniformly in $s$. Furthermore, we study relaxed versions of uniform equivalence by modifying the sequence of weights, e.g., by constant factors, and by analyzing embeddings of the respective spaces. Likewise, we analyze the limiting case $s = \infty$.

This is joint work with Klaus Ritter.