| | **Reactions** $\rightarrow$ **Products**<br>**− absorption plus leakage**<br>**− consumption**<br>**+ heat** |
|---|---|
| **Fusion breeder** | $D + T \rightarrow n + 17.6\text{MeV}$<br>$n + Be \rightarrow 2.3n - 0.7n$<br>$1.6n + Li \rightarrow 1.6T - 1T + 7.7\text{MeV}$<br><br>**Total:** $0.6T + 25\text{MeV}$ |
| **Fission breeder** | $n + {}^{235}U \rightarrow 2.5n - 0.9n - 1n + 200\text{MeV}$<br>$0.6n + Li \rightarrow 0.6T + 3\text{MeV}$<br><br>**Total:** $0.6T + 200\text{MeV}$ |

Table 5.5: Fusion and fission tritium breeding reactions in dedicated facilities. *Adapted from W.A. Lokke and T.K. Fowler, Report UCRL–94003, Lawrence Livermore National Laboratory (1986).*