

Ammonia Absorption Refrigerator



1. Hydrogen enters the pipe with liquid ammonia
2. Ammonia + hydrogen enter the inner compartment of the refrigerator. Change in partial pressure causes ammonia to evaporate. Energy is being drawn from the surroundings - this causes the cooling effect
3. Ammonia + hydrogen return from the inner part, ammonia returns back to absorber and dissolves in water. Hydrogen is free to rise upwards
3. Ammonia gas condensation (passive cooling)
4. Hot ammonia (gas)
5. Heat insulation and separation of water from ammonia
6. Heat source (electric)
7. Absorber vessel (water + ammonia solution)

