

Abstract

Method and device for waste heat recovery in ammonia-based desulfurization and decarbonization system

The present invention relates to a method for waste heat recovery in an ammonia-based desulfurization and decarbonization system, in which a heat of decarbonization system is removed by using a heat of a process gas before desulfurization, the process gas before desulfurization passes through a gas heat exchanger to heat an intermediate medium, and the intermediate medium drives a refrigerator for refrigeration, a refrigerant obtains a cooling capacity and reduces the temperature of the decarbonized process gas through the liquid-liquid heat exchanger. The present invention makes full use of the waste heat in the process gas, and is capable of being used for cooling the decarbonization process gas and reducing energy consumption.

[Figure 1]