

Ammonia Dissociator

In addition to the standard process plant equipment, we of course also offer optional equipment modules for example to enhance or automate the process control or increase the application range of a thermal process plant.

In cases where a reducing furnace atmosphere is needed and depending on the chemical composition of the gas required, we offer our ammonia dissociator series ASP-20 to ASP-120. Capacities of 20 Nm³/h (ASP-20) to 120 Nm³/h (ASP-120) are possible with the typical gas analysis corresponding to 75 Vol.% H₂ and 25 Vol.% N₂. The working temperature of the ammonia cracker is 900°C to 980°C.

Our ammonia dissociators can be purchased as part of the customized equipment for a thermal process plant, or separately.

Specifications

Technical Features	
Heating:	Electric
Working temperature:	900°C - 980 °C

Applications

A wide variety of thermal processes require a reducing atmosphere. Forming gas produced by an ammonia dissociator, also referred to as ammonia cracker, and which typically consists of 25% N₂ and 75% H₂ is an alternative. It is for example used for brazing and/or bright annealing of parts consisting of high or low carbon steels, copper, brass, beryllium copper, nickel, nickel alloys and silicon iron. Other applications include bright hardening of tool and martensitic stainless steels and powder metal sintering.

Additional Equipment Modules

+ Gas Dryer	+ NH ₃ -residual content checking device
+ Dewpoint measuring device	

Foto Gallery



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