

Xinran Hydrogen refueling station equipment (hydrogen supply mode: gaseous)
Dynamic simulation of ion compressor



The main components of hydrogen ion compressor include:

- several cylinders for compressing hydrogen;
- a multi-head high-pressure liquid pump;
- liquid reversing and pipeline system;
- ion liquid separation and recovery device.

Its core technical feature lies in the use of a special physical and chemical properties of liquid (ionic liquid) into the cylinder



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 Ion liquid characteristics and ion compressor characteristics

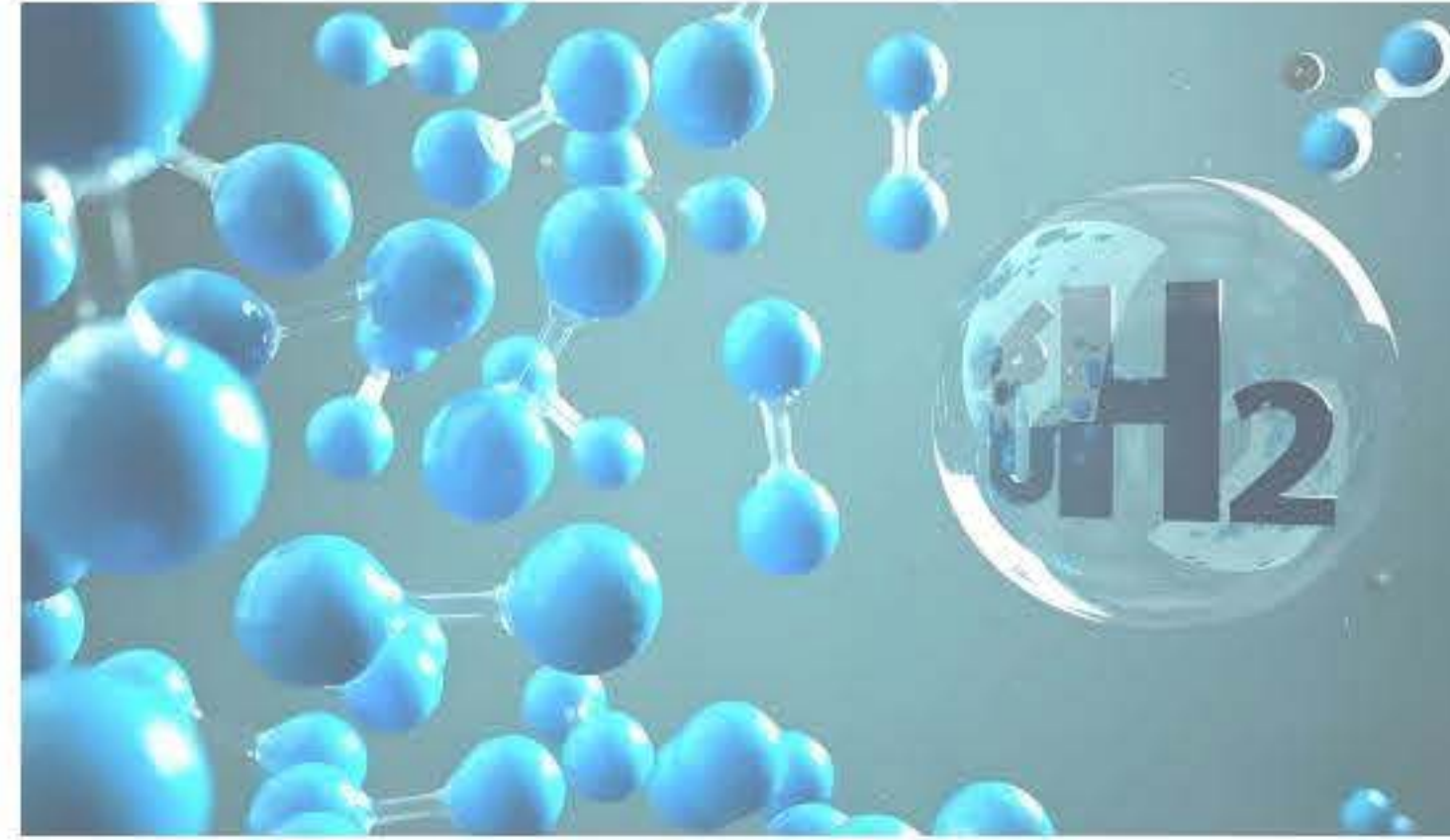


ionic liquid

Insoluble hydrogen gas

Heat stable, non-flammable

High specific heat capacity



characteristic	explain
safety	Hydrogen has no risk of contamination.
energy conservation	Energy efficiency is improved and energy consumption is reduced by 25%.
flexible	Low inlet pressure, can meet different application scenarios.
delicacy	Compact design, small footprint.
reliable	Less moving parts, less wear.

