

OIL AND GAS FIELD SURFACE PROCESSING EQUIPMENT

Triethylene Glycol (TEG) Dehydration Unit

TEG Dehydration is a physical absorption process used in natural gas processing and purification to reduce the moisture content in natural gas. In the TEG absorption tower, the strong hygroscopic property of TEG enables it to absorb saturated water from natural gas as the two phases come into counter-current contact. The resulting rich TEG is then choked and depressurized before entering the regeneration system, where it undergoes flashing, heating, and evaporation, converting the rich TEG back into lean TEG. By continuously circulating between lean and rich TEG phases, the system effectively removes saturated water from the natural gas stream.



Molecular Sieve Dehydration Unit

The Molecular Sieve Dehydration Unit mainly consists of a molecular sieve adsorption tower and a regeneration system. In natural gas processing and purification, the unit uses molecular sieve solid adsorbents to remove water from natural gas, thereby achieving gas purification and effectively lowering the water dew point.

