

GLYCOL REGENERATION SKID

GAS DEHYDRATION PLANT

Inchukalns UGS – Ragana (LATVIA)

JSC LATVIJIA GAZE / PIETRO FIORENTINI

DELTA ENGINEERING srl

Building the
Glycol Regeneration skid

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GLYCOL REGENERATION SKID

Assemblig upper section skid



GLYCOL REGENERATION SKID



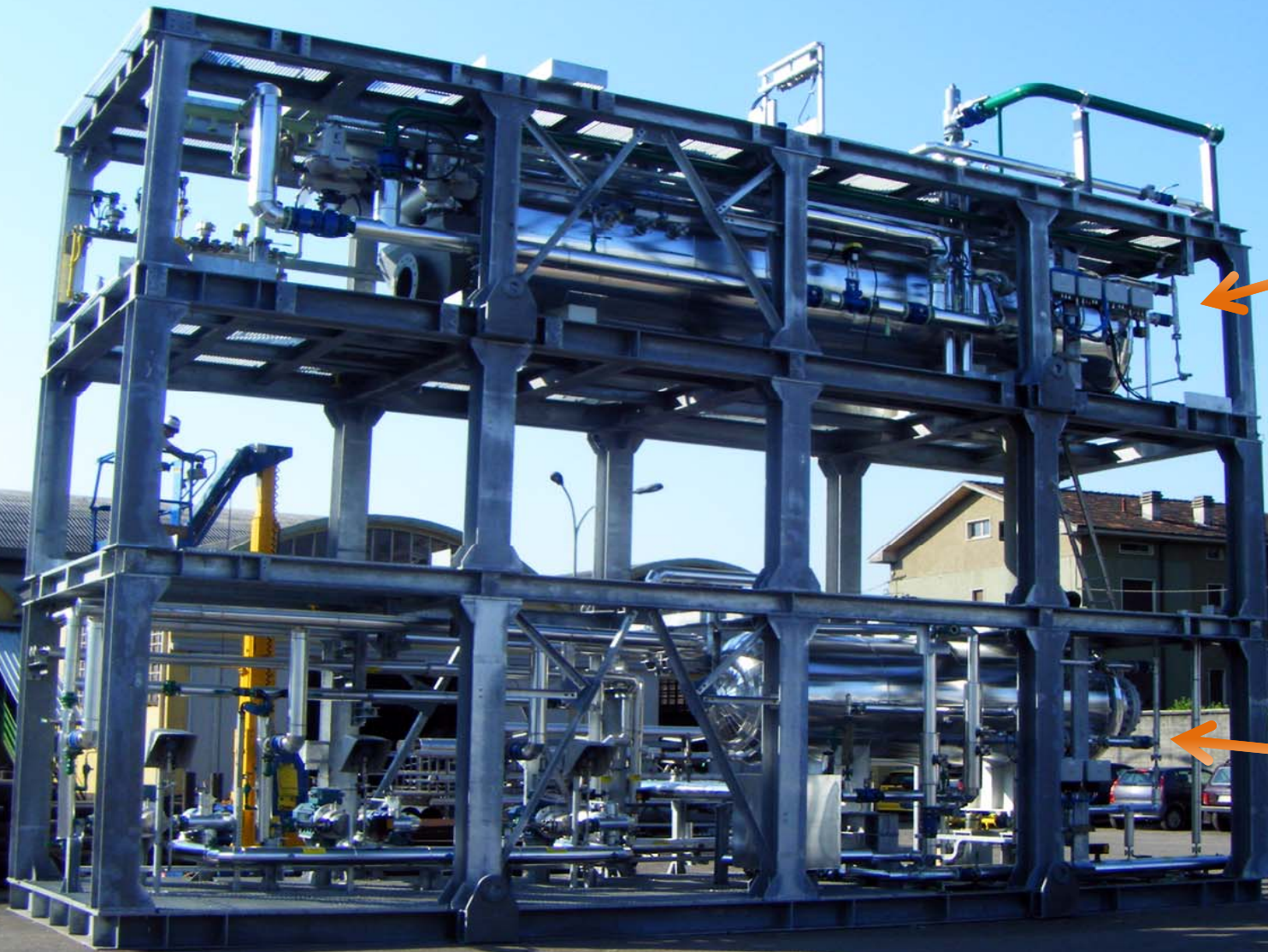
SKID DIMENSION

HEIGHT: 19,5 m

LENGHT: 12 m

DEPTH: 4 m

GLYCOL REGENERATION SKID



Reboiler

Surge Drum

GLYCOL REGENERATION SKID

Installing
the
platforms



Describing the technology

Liquid absorption with glycol is one of the most common method for **natural gas dehydration**. The process consist in contacting the high pressure wet gas counter current with liquid desiccant (normally *Tri-Ethylene-Glycol TEG*) in an absorber.

The column internal can be either bubble cap trays, random packed or with structured packing. The lean TEG solution (lean in water) absorbs the water. The dry gas exits at the absorber top while the rich TEG solution (rich in water) is regenerated in the glycol regeneration section.

Different system can be used depending on the TEG concentration to be achieved. Usually **the regeneration of spent glycol** is obtained by **reboiling the solution at atmospheric pressure**.

The highest reboiling temperature is limited by thermal degradation of glycol. Glycol purity that can be achieved is approximately 98.8%.

When higher glycol purity is required it is necessary to operate under vacuum or adding stripping gas in order to reduce the water partial pressure.



DELTA ENGINEERING srl

Via Sabbio, 93 – 24044 Dalmine (BG) – Italy
Tel. +39 035 561140 – Fax +39 035 563541
www.deltaeng.it – info@deltaeng.it