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Four Compressors for Chemical Plant in Germany

Burckhardt Compression is in the process of delivering three labyrinth piston compressors for oxygen and one PSA off-gas compressor for a hydrogen mix for a chemical plant in Oberhausen, Germany.

Burckhardt Compression is in the process of delivering three oxygen compressors and one PSA off-gas compressor to the Celanese chemical plant in Oberhausen, Germany. The company has received the order back in November 2001 from the Linde Group, Höllriegelskreuth, Germany. Linde is the general contractor for the high pressure synthesis turnkey plant. The contract comprised three oxygen compressors and one PSA off-gas compressor. Burckhardt Compression has extensive references in the supply of these types of machines.

The three labyrinth piston compressors (Laby[®]), for oxygen, were delivered by end September 2002. Erection has started and will be finalized by end December 2002. Each Laby[®] delivers Oxygen at a final pressure of approx. 80 bar and is driven by a 760 kW electric motor at 490 rpm. For these high pressures only experienced manufacturers can supply the appropriate equipment.

The process gas compressor, for PSA off-gas, will be delivered by end November 2002. It compresses a hydrogen mix and is dry-running (non-lubricated). Five compression stages are required to compress this quantity of gas non-lubricated. To deliver non-lubricated machines for such applications, profound know-how is required. The process gas compressor has a delivery pressure of approx. 70 bar and is driven by a 1500 kW electric motor at 424 rpm.

Start-up of the whole plant is foreseen to take place by mid 2003. The plant will produce Hydrogen and Oxogas. Oxogas is the basis for Oxoalcohols, which are used as a fabric softener in the plastic industry.

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