

Title (en)

METHOD AND COMPRESSOR MODULE FOR COMPRESSING A GAS STREAM

Title (de)

VERFAHREN UND KOMPRESSORMODUL ZUM VERDICHTEN EINES GASSTROMES

Title (fr)

PROCEDE ET MODULE COMPRESSEUR POUR COMPRIMER UN FLUX GAZEUX

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Application

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Abstract (en)

[origin: US6652241B1] The invention relates to a method and compressor module for compressing a gas stream of entry temperature t_1 with the aid of hydraulically driven piston compressors in two compression stages of an entry pressure p_1 from an intermediate pressure p_2 after the first compression stage and from intermediate pressure p_2 to an exit pressure p_3 after the second compression stage, whereby the gas stream compressed to the intermediate pressure p_2 is cooled back down to the entry temperature t_1 before entering the second compression stage, and identical pressure ratios $p_3/p_2 = p_2/p_1$ are used in the compression stage. According to the invention, the pressure ratios are adjusted by correspondingly adapting a hydraulic fluid stream for driving the first compression stage and a hydraulic fluid stream for driving the second compression stage with regard to the flow rate thereof with the aid of two adjustable hydraulic fluid pumps.

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