

Impressions



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Compressors

ELGI
Impressors

Think Long Run

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Elgi compressors provide the oxygen your processes need

Elgi's tandem compressors provide 'round the clock' operation with increased airpower and a reduction in energy and maintenance costs at Associated Oxygen Ltd, the flagship of Rising Group in Chittagong. The plant with a capacity of 500 m³/hr is one of the largest air separation units in Bangladesh.

Compressors play a key role in the air separation process. Air compressors draw in filtered air and compress it to the necessary pressure before it is cooled and separated into its main components, nitrogen and oxygen and other inert gases. At the heart of Associated Oxygen's air-separation plant, are Elgi's two-stage tandem compressors with a capacity of 1085 cfm. With a maximum filling of upto 25 cylinders per hour, the compressors have optimized the plant output. The generated oxygen is primarily used in smelting processes and also in continuous casting, where the oxygen essentially cuts the hot steel on the rolling train into smaller pieces.



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Associated Oxygen Ltd. had previously relied on a competitive brand's reciprocating compressors for its air-separation needs. The reciprocating compressors required regular maintenance and had cost them with high operating expenses. To help them reduce power consumption, Elgi offered its tandem compressors designed with energy-efficiency as a key feature. The compressors have saved them 11-13% of the current energy use. This is achieved through advanced two-stage airend. The air compression is done in two-stages to improve the volumetric efficiency and thereby contributing to decrease in power consumption. Elgi's tandem solutions are thus a key to reliability and cost-efficiency.

With in the realm of air separation, Elgi serves industries such as steel, electronics and chemical/ petrochemical production. Elgi's position in the air separation market is just another indication of total air solutions it can provide in a host of industrial applications like CNG filling stations.

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