

## **Add to your savings through heat recovery air compressors**

It's now possible to reduce your plant's total energy consumption by recovering the heat air compressors produce. During the generation of compressed air, a large portion of the input energy is converted into heat. For example, in an electric powered screw air compressor, of the power supplied by a motor, approximately 16% gets converted into compressed air energy. Much of the energy, around 84%, is converted into heat and generally lost to the cooling circuit in the compressor package. However, you can dramatically increase the efficiency of compressors by using the major portion of the waste heat for heating purposes through heat recovery system. In doing so, you can optimize your compressed air energy usage and reduce your associated energy costs.

Elgi has added this additional energy saving feature of heat recovery to its tandem range of compressors. Tandem compressors are one of the most energy-efficient ranges as they have a power advantage of 8%-12% over single-stage compressors.

Elgi has offered these compressors with in-built heat recovery to Coco Cola beverage plant at Beijing, China. The water-cooled compressors with an output capacity of 650 cfm are used for instrumentation air. Apart from instrumentation air, the compressors also offer the opportunity to recover and redirect the waste heat in a more efficient way. The recovered heat energy will be delivered as warm water at about 55-60 deg C for their various plant utility like toilets, canteens and other process. The system also fulfills the heating system during the cooler months of the year without the requirement of any additional energy input. As optional, the system can be used to recover the waste heat as hot air for heating rooms and other hot air uses.

The compressors with heat recovery feature will provide you the most significant energy and cost savings by saving on the fuel/electricity charges which otherwise was being used in heating the water.

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