

Elgi's new NH-42 : Redefining oil-free operations

The need for having an efficient and reliable compressed air system is well recognized in view of the large capacity power stations being installed in India. This is more significant as many power plants have designed their ash handling plants on dry ash handling mode using air compressors for movement of ash. Elgi oil-free compressors gain significance in major thermal power plants in India as they play a vital role in providing 100% oil-free air for conveying ash and for instrumentation.

In a major deal, Elgi has won the contract for the supply of its newly developed NH-42 oil-free compressor from the 500 MW Karnataka Power Corporation Limited (KPCL), Raichur, India. The order was won through an EPC contractor Tecpro Ashtech Ltd. Elgi's compressed-air system, involving oil-free compressors, dryers, instrumentation, spares, piping and other accessories, supplies the pressurized air required by the instruments and other consumers in the plant. The compressors supplied have a capacity of 2600 cfm at 9 bar(g) each. Elgi has also procured other contracts from prestigious clients, such as Neyveli Lignite Corporation Ltd, 'Seabird' Karwar defense establishment, Kutch Lignite Ltd, Gujarat Mineral Development Corporation and so on. The award of these contracts underlines Elgi's strong presence in the Power sector.



Elgi's oil-free screw compressors ensure an energy-efficient compressed air supply, thanks to the unique NH profile rotors. The leakage of the air has been dramatically reduced by maintaining an optimum gap between screw rotors during the discharge and suction cycles. As a result, the NH series compressor offers 5% greater volumetric efficiency when compared to a conventional compressor, thus significantly reducing the operating costs. Special resin coating of rotors also ensures efficient operation of Elgi's oil-free compressors over a longer period of time. Ease of maintenance has also been a key advantage with the NH series. The use of long-life bearings results in dramatic reduction in maintenance costs. Maintenance cycle is thus extended by 50000 hours or 6 years as against 35000 hours or 4 years for bearings of other makes.

The NH-42 oil-free compressor is the latest addition to NH family, covering the capacity ranging from 1800 – 2600 cfm and pressures up to 9 bar(g). Reliability and low operating costs are the primary customer benefits that the NH-42 offers. Combining more than 45 years of experience in air compression, the NH-42 redefines the oil-free operations.

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