

Mr. Deepak Pahwa - Director (Delair India Pvt Ltd)



1) What is the role of Delair in power plant resiliency?

Power plants are an intricate part for running an industry. Hence, it requires a high level of accuracy throughout the processes which can be achieved by quality compressed air to power wide range of pneumatic operations. Delair is an end-to-end Compressed Air Treatment solutions provider that offers a range of refrigeration and desiccant/adsorption dryers that save the production and energy costs of the company. The pneumatic components in the power plant have the tendency to wear out or get corroded in the presence of moisture. It results in increased consumption of compressed air accounting for wastage of energy. Along with this, the cost of replacing spare parts, labor, inventory, and plant downtime can have a significant impact on the bottom line, causing the system to break down. This incurs a huge loss of money and time. The quality compressed air by Delair intervenes with the prospects of malfunctioning of the machinery which is majorly responsible for the power plant shutdown or temporary discontinuity. Hence, it saves the plant facility from unnecessary revenue loss.

2) Tell us about the USP of the product?

Delair is one of the largest compressed air treatment provider and specializes in designing, engineering, and manufacturing of Compressed Air and Gas Drying Systems – Refrigeration & Adsorption types. Delair compressed air dryer meets the right quality of air at the most economical costs by eliminating moisture, dust particles, oil particles, and solid contami-

nants from compressed air. The Refrigeration Dryers and Adsorption type Heatless Dryers under Delair are well known for their world-class quality and reliability. Clean dry compressed air ensures smooth functioning of pneumatic operations and guarantees high levels of reliability, ensures quality standards are met, and can reduce production life cycle costs.

3) What are the specific industries where Delair technology finds application?

Delair finds wide gamut of applications across a broad range of industries. Our product is sought for its strength to power tools and scale the productivity, precision, and speed of the processes. Delair compressed air dryers are heavily used in the automotive industry, pharmaceutical industry, food and beverage industry, manufacturing industry, semiconductor, electronics, healthcare & hospitals, textile, pulp & paper, power plants, pneumatic systems and tools, ash handling systems, and many more industries.

4) How is the product at the heart of Compressed Air Treatment Solution?

Delair offers a complete compressed air treatment solution and comes with a wide range of refrigeration and desiccant/adsorption dryers to eliminate moisture and other contaminants from compressed air. Both types of dryers have different principles for drying but give the same result of eliminating moisture from the compressed air and their application depends upon the specific demand of the particular process. The processes which require a pressure dew point between 2°C- 3°C employ the refrigeration dryer where the air is dried by cooling it down to nearly freezing point. By doing so the moisture of the air is removed. On the other hand, to achieve extra dry air where an atmospheric dew point of (-)40°C to (-)60°C is required, adsorption or desiccant drying is applied. It employs the principle of heatless regeneration where desiccants are deployed to adsorb and desorb the water vapor. It takes leverage of the pressure swing principle/purges air to revive the desiccant bed.

5) How does Delair strengthen the manufacturing sector across varied industries?

Impure compressed air laden with moisture and contaminants has heavy repercussions on the manufacturing sector

across the varied industries like food, pharmaceutical, healthcare, automobile, power, and other industries. Moisture increases the probability of corrosion in the pipelines, cylinders, and other components which only worsens during the cold weather by freezing the exposed lines. Together, it increases the downtime of the machine and pose a huge glitch on the company's production line. It puts a lot of pressure on the company to increase the maintenance cost of the pneumatic machines and also recover the loss incurred due to discontinuity in manufacturing. Here, Delair plays a crucial role in controlling moisture, be it the machines or surrounding areas. By providing quality compressed air, Delair helps in the production of highly competitive end products vouchsafing unrivaled quality.

6) How Compressed air plays a crucial role in the smooth functioning of power plants?

The power industry heavily relies on quality compressed air for all the intricate operations involved in the plant. From coal handling to ash conveying systems, assuring the smooth functioning of pneumatic instruments required for powering the tools that start the gas turbines, boilers, generators, precipitators, etc., insertion and withdrawal of reactor rods, and stamping compressed air is an inevitable requirement of the power plant. The compressed air is required for actuating stamping presses, air wrenches, and aerating equipment.

7) What is the future of Compressed Air Treatment solutions?

Undoubtedly, Compressed air forms a crucial part of the manufacturing setup. The Compressed Air Treatment solutions will invariably find inevitable applications across varied industries. In today's context, manufacturers are understanding the requirements it plays in running a facility. Given the present situation, the future holds a lot of potential. The solution is an ideal way to control moisture when manufacturing and packaging processes are ongoing. Also, considering that India is emerging as a global player in exporting products, there lies a huge responsibility on the country to come up with high-end quality products that are competitive and sustainable.