

HOW IT WORKS – TWIN TOWER AIR DRYER



The compressed air is passed through a pressure vessel filled with an adsorbent media such as ACTIVATED ALUMINA . The desiccant can bring the dewpoint of the water vapor in the air down to -40° Celsius or below. This means that the air will not condense (deposition) water until it is cooled to -40° Celsius. In practice two cylinders with desiccant are used; one is drying the air, while the other vessel is being regenerated. The switching of the vessels and the regeneration sequence is typically done automatically via solenoid operated valves.

The regeneration of the desiccant vessel can be during two different methods:

- **HEATLESS**"pressure-swing" drying which uses part of the dry compressed air coming from the other vessel to dry the desiccant in the vessel being generated at lower pressure.
- **HEATED** dryer, this can use a hot air blower, so there is no loss of compressed air.



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