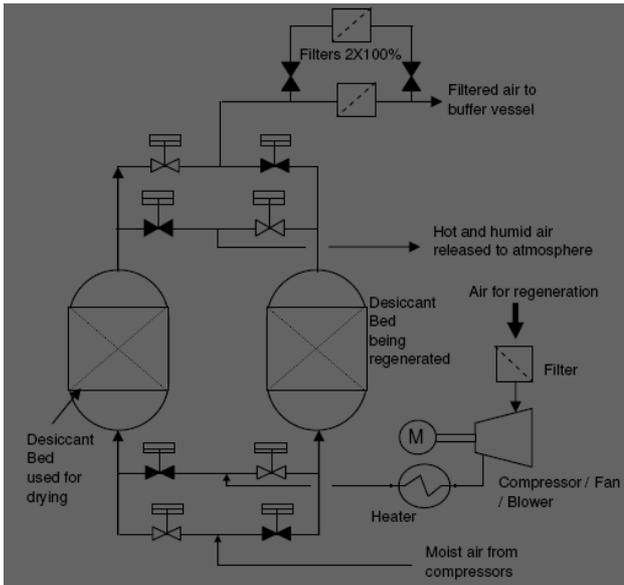


# HEATLESS AIR DRYER



MARUTI CORPORATION having a modern facilities with over 50000 square feet of manufacturing space near Vadodara (Gujarat, India).

Vadodara is one of the biggest industrial and chemical complexes hub in India making us ideal for easy availability of specialized skilled engineers, man power, spares & instruments availability also.



## Heatless (Compressed, Desiccant) Air Dryer.

Heatless dryers have been optimized to suit industry needs. The heatless dryer consists of 2 towers which, alternately cycle on drying and regeneration. Each tower is filled with a bed of adsorbent desiccant. The tower on drying cycle adsorbs the moisture from the incoming wet air. The tower on regeneration uses a small portion of the dried air passing through the desiccant to remove the adsorbed moisture. This air is later vented to the atmosphere. The cycle is maintained using a control panel. Desiccant air dryers or heatless air dryer are designed for a long lifetime of reliable operation. Using only compressed air as a purge, they provide you with the clean, dry air you need to extend the life of your equipment and ensure the quality of your end product. They are available in a range of sizes with a pressure dewpoint as low as  $-40^{\circ}\text{C}/-40^{\circ}\text{F}$ , and come in an IP54 protected cubicle.

### Customer benefits :

Reliability –desiccant dryers eliminate system failures, production downtime and costly repairs by removing moisture from compressed air with a pressure dewpoint as low as  $-40^{\circ}\text{C}/-40^{\circ}\text{F}$ .

Reduced energy costs – Optimally sized pipes and valves ensure a limited pressure drop.

Options are available to increase the efficiency and reduce the energy consumption of dryer.

Space-saving – all-in-one design leads to a small footprint, saving valuable space in your facility.

Low maintenance – Delivered ready for use, installation of your dryer is straightforward, cutting costly production downtime. All internal components are easily accessible to facilitate maintenance. The use of high-grade desiccant and high-quality valves results in three-year maintenance intervals.

Desiccant dryers employ a heatless regenerative design to produce pressure dew points as low as -100°F. Solid-state controls with adjustable cycle timers allow dryers to be easily adapted to user requirements. The optional purge saver control dramatically increases efficiency at reduced flows, and includes active tower lights and a switching failure alarm.

**Capacities: 40 to 5400 scfm @100 psig**

**Pressure dew point: upto -100 °F**

**Important features and advantages:**

\* Fully automatic operation.

\* Desiccant dryers are supplied with an inexpensive, simple, fixed-cycle timer for -40°F pressure dew point.

\* Optionally available Color change moisture indicator signals elevated dew point.

\* Standard and custom filter packages are available.

\* ASME pressure relief valve.

\* Delivered air quality in accordance with ISO 8573-1: 2001, the international standard for compressed air quality.

- \* Exclusive Purge Flow Regulator saves energy and ensures performance by maintaining optimum.
- \* purge regardless of system pressure.
- \* Anti-surge Control eliminates potential compressor surge by preventing momentary flow restrictions from occurring at tower switch over.
- \* Variable Cycle Control provides a mean to adjust the purge cycle time to reduce the total amount of purge used for regeneration when demand is expected to be less than maximum.
- \* Pro-Purge Demand Control saves energy by automatically regulating the purge cycle in response to actual loads.

