

Industrial Heatless Desiccant Dryer Packages

5 - 375 Cfm



Amico Heatless Desiccant Dryer offers total cleaning solution for lubricated and non-lubricated compressed Air

Drying Cycle

Moist air from the compressor is sent through the coalescing filter. Here water and oil coalesces, gets purged through the auto drain valve. The relatively clean air with water vapor passes through the aluminum drying tower filled with desiccant gets completely dried (up to -40 °C dew point) and then passes through a built in after filter. The desiccant fines from the towers are completely removed and clean dry air is let out through the outlet port for use.

Regeneration Cycle

During the regeneration cycle. The sudden depressurization brings out water molecules trapped in the Desiccant pores to the surface of the beads. A small portion of dry compressed air from the drying tower then passes over the desiccant through the regeneration orifice built in the Top Block. This results in a complete regeneration of the Desiccant.

The Amico Difference

- Pre-filter rating 0.01 micron (coalescer)
- Shuttle valve for Low Pressure Drop
- All Aluminum resists oxidation and scale formation
- Dewpoint better than -40°C
- Patented Design

Simplex & Duplex Packages Available to meet all demands

The Desiccant dryers are available in simplex or Duplex packages. Standard with Prefilters, Post Filters, regulators, safety relief valves, Gauges, and integral purge saving control within a three to six valve bypass arrangement.

- Prefilters rated for 0.01 micron and capable of removing both aerosols and particulate. The prefilters shall be mounted and pre-piped with automatic float drain and element change indicator.
- Post filters rated for 1 micron particulate removal and shall be mounted and pre-piped with element change indicator.

Modular Dryers for Space constraints

- Modular space saving packages available upon request

Dryer Controls

- **Single Screen** displays the dew point reading and all associated dryer controls
- **Dryer Switch** allows switching between dryers
- **Dryer Override** allows both dryers to operate for ease of maintenance
- **Forced Purge Time** purges the dryer tower when in economy mode for a long time
- **Purge Duration Time** to optimize purging for different installation environments

Technical Specifications

Heatless Desiccant Air Dryers

Model	PD352	PD237	PD238	PD239	PD240	PD241	PD242	PD243	PD244	PD245	PD246	PD247
Discharge NPT	½"	½"	½"	½"	½"	1"	1"	1"	1½"	1½"	2"	2"
Flow SCFM	5	10	20	30	45	60	100	125	200	250	300	375

Modular Heatless Desiccant Air Dryers

Model	NDL-010	NDL-020	NDL-030	NDL-040	NDL-050	NDL-060	NDL-070	NDL-080	NDL-090	NDL-100	NDL-110	NDL-120
Discharge NPT	¾"	¾"	¾"	¾"	½"	1"	1"	1"	1"	1"	1"	1"
Flow SCFM	5.1	8.5	17	26	41	58	70	90	112	150	180	224

Maximum Working Pressure	227 PSI
Air Inlet Condition Maximum Fluid Temperature	45 °C
Pre-filter rating	0.01 Microns (Coalescer)
Cycle Time	4 Minutes
Regeneration Volume	10%
Air Outlet Conditions	Dry air at -40°C Dew Point
Operating Voltage	85 - 265 V 50 / 60 Hz 1 Ph