



LIQUID SOLVENT DRYER



Mellcon Engineers are the manufacturers of complete range of Liquid Dryers, solvent dryers dehydration equipments & dehydrators Designed for removal of dissolved water from a variety of liquids critical to Industry. These dryer are designed for a continuous duty like Twin tower liquid dryer system or single tower liquid dryer system for batch operation i.e. Desiccant systems for liquid dehydration have two basic cycles:-

Drying- The removal of dissolved water from liquids is accomplished by passage of the wet liquid through a freshly reactivated packed column of granular desiccant material like silica gel, activated alumina or molecular sieves. Continuous operation is accomplished by the use of dual adsorbers, with one tower on the process stream while the other is being reactivated.

Reactivation- Reactivation is accomplished in the following steps:

- Drain the tower of liquid product
- Heat the desiccant to release water.
- Remove released water from the tower.
- Cool and refill.

Before reactivating a tower, the single volume of process liquid is emptied. Low volatility liquids can be drained or pumped into a storage tank. many highly volatile liquids (e.g., propane) can be pumped or pressurized (by heating) back into the process line. Heating of the desiccant in the dryer is accomplished with internal heaters (electric or steam or thermic fluid) in conjunction with the use of a dry non-reactive purge gas (like Nitrogen) and in the Convection dryer by passing a hot gas stream through the bed. During reactivation the residual process liquid and adsorbed water are vaporized as reactivation temperatures are attained.

Mellcon liquid solvent dryer dehydrators are offered in two basic designs, internal heat reactivation (IHR type) and external heat reactivation (IHR or Convection type). Mellcon engineers evaluate each application to determine the best system.

Reactivation system alternatives include

I.Type of Reactivation System	II. Heat Source
a) Open (once through)	Electric or
b) Closed (recirculated high or low pressure)	b) Steam
c) Open Heating, Closed Cooling	c) Thermic fluid

Mellcon Engineers has more than 20 years of experience in adsorption systems in the design of dehydration equipments liquid dryers. Mellcon's engineers department is capable of designing liquid dryers for many diverse applications.

A partial list of typical liquids dried by Mellcon systems includes:

Aromatics- Benzene, Toluene, Xylene

Saturated Hydrocarbons- Propane, Butane, Pentane, Hexane

Unsaturated Hydrocarbons- Butadiene, Butene, Propylene-Propane Mixtures


Chlorinated Hydrocarbons- Methylene Chloride, Trichloroethylene, Trichloroethane Refrigerants and Propellants- Refrigerant 11, 12, 22,113, 114, 134, 404, 407

Miscellaneous Liquids- Ethanol, Vinyl Chloride, Acetone, Tetrahydrofuran, Dimethylacetamide, Methyl-Ketone, Ethylene Dichloride, Normal Paraffins, Kerosene

OUR PRODUCT RANGES

Air / Gas Dryers	Refrigerated Equipments	Other Products
Heatless Compressed Air Dryer		
Refrigerated Air Dryer	Air Cooled Water Chillers	Hot Air Blowing Equipment / Air Heaters
High Pressure Air/Gas Dryer	Water Cooled Chillers	Solvent / Liquid Dryer
Blower Heat Regenerated Air Dryer (BHR)	Screw Chillers / Chilling Plants	

Internal Heater Dryer (IHR)	Walk in Coolers / Cold Rooms Units	Onsite Gas Generators
Heat of Compression Air Dryer (HOC)	Refrigerant Recovery System	PSA Nitrogen Gas Generator
Split Flow-No Purge Loss Air Dryer (SFNL)	Storage Systems	PSA Oxygen Gas Generator
Custom Made Air Dryer	Liquid CO2 Storage Tanks	Spare Parts
Packaged Mobile Dry Air Plant	LPG Storage Systems	Spare part for Air Dryer
Pressure Regulating Stations ^{NEW}	CO2 Recovery Plant ^{NEW}	Air Receiver Tank For Compressed Air
Hydrogen Gas Dryer ^{NEW}	CO2 Vaporiser ^{NEW}	Auto Drain Trap
Instrument Air Quality Standard ^{NEW}		Dew Point Apparatus
		Spare Parts for PSA Nitrogen Gas Generator

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