

LECTRODRYER

ADSORPTION TECHNOLOGY EXPERTS



Information contained in this brochure is for reference only and needs to be confirmed by a Lectrodryer representative.

TYPE-BA INDUSTRIAL GAS DRYER



The Type-BA is designed exclusively to meet the demands of process line gas

The BA is a regenerative-type dryer for compressed air or gas drying. It has a dual tower system suitable for either steam or electric reactivation, fully automatic in operation. A dependable reactivation blower is provided, thus eliminating the need for the process gas from the steam being required for reactivation. And it can provide gas or air with a dew point of -40°F or below.

The BA's absorbers are reactivated by heating the flow of reactivating air to drive off moisture from the bed. The reactivating air is taken from the atmosphere so there is no loss or waste from the main stream. And heating can be accomplished with either steam or electricity.

Automatic Operation

The Type-BA Lectrodryer is a fully automatic unit supplying a continuous flow of dry air or gas. It requires very little maintenance, except for occasional lubrication. The reactivating air is taken from the atmosphere, heated and sent through, eliminating the loss or waster of process gas. The BA, controlled by a timer, runs on a normal 8-hour NEMA cycle consisting of 4 hours on drying, 3 hours on heating, and 1 hour on cooling.

The flow pattern is determined by two mechanically interlocked four-way valves for positive flow direction. The four-way valves are activated by an air motor with solenoid controls. And depending on the application, desiccants can either be activated alumina, silica gel, sorbead, or molecular sieve.

Typical Specifications

Model	Length/ Inches	Width/ Inches	Height/ Inches	Weight/ Lbs.	Electric Reactivation Connected Load/ KVA	Average KW	Steam Reac- tivation Lbs/hr average	STD Conn/ Inches	Blower HP
BA-225	57	28	70	1000	4.5	3.3	15	1 1/2	3
BA-325	69	30	70	1500	7.5	5.6	22	1 1/2	3
BA-600	82	34	100	2800	14	11.2	41	2	3
BA-1000	72	36	90	4500	24	18	70	2 or 3	5
BA-1500	72	48	90	7500	40	30	104	3	5
BA-2000	134	52	100	9000	55	37.5	139	3or 4	7 1/2
BA-3000	134	50	80	14000	80	52.5	210	4 or 6	10
BA-4000	137	58	90	17000	115	75	278	6	15
BA-5000	148	67	90	22000	145	90	345	6	20
BA-6500	140	73	100	30000	190	112	450	6 or 8	20
BA-8000	152	81	100	36000	240	142	553	8	25
BA-12,000	178	96	110	56000	360	210	829	8 or 10	40
BA-20,000	204	102	110	65000	550	345	1384	10	100

Steam Consumption is based on 150 psig sat. steam.

Utility requirements are based on a full load condition.

Utility requirements may be reduced by utilizing the reactivation Termination and Lectrolod® Demand Cycle Control options.



Controls

Steam flow is controlled by a valve providing reliable, positive closing at high temperatures. A thermostat is provided for protection of electric heaters.

Instrumentation

All BA models are equipped with a tower pressure gauge, over-temperature, protectors on electric reactivation models, thermometers indicating input and output reactivation temperatures and indicating lights for reactivation.

Standard Features

Desiccant drain and fill ports independent of piping connections.

Manways when required by size of vessel and ASME.

Thermal pressure relief valves.

Tower and hot piping insulation as required for proper performance.

External heater.

Shut-off valves in regenerative gas streams.

Two four-way lubricated plug valves interlocked mechanically.

Atmospheric blower with intake filter.

NEMA 1 electrical enclosures.

Cycle timer and cycle indicating lights.



Optional Features

Lectrolod® demand-cycle control.

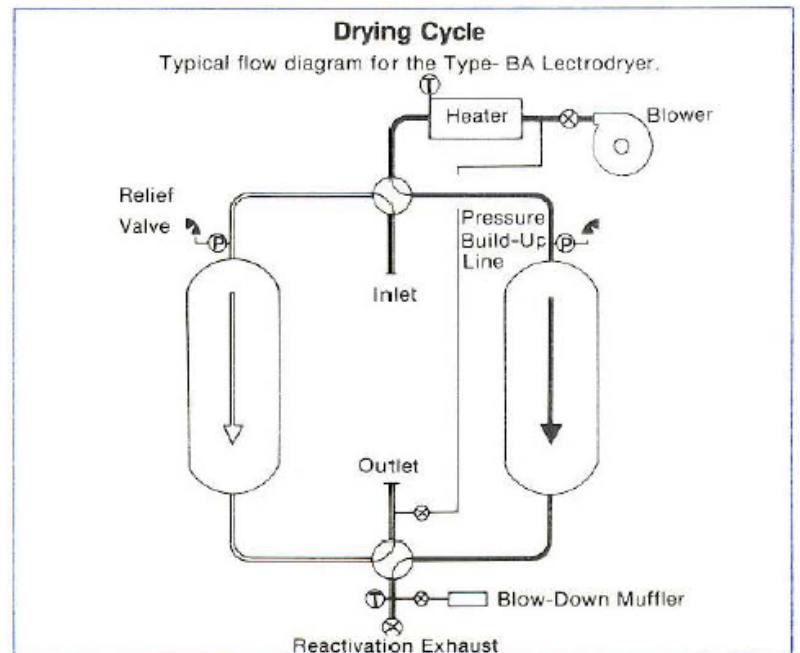
Non-lubricating switching valves.

NEMA 4, 12, and 7 electrical enclosures.

Switch failure alarm.

Heater failure alarm.

High-temperature alarm.



LECTRODRYER HAS THE SOLUTION FOR ALL COMPRESSED AIR AND GAS DRYING PROBLEMS

Lectrodryer offers a complete range of drying and purification equipment:
For atmospheric or high pressure conditions
For very small or very large air volumes
For air, gases, and certain organic fluids

Regenerative Adsorption Dryer

Typical applications:

Drying compressed air for instruments; purging of refrigeration coils, compressors, and systems; drying air for ozone generators; vacuum-breaking operations controlled atmosphere gas



Features:

Carbon steel pressure vessels with ASME Code (where applicable) for up to 150 PSIG Stainless steel perforated metal desiccant support and inlet flow diffuser, sheathed or non sheathed heating element in which each adsorber vessel with thermostatic over temperature protection in the heater bundle, two 4-way lubricated plug valves with air piston operator and solenoid valve controls, thermal pressure relief valves, pressure gages, dial thermometer in the purge outlet, 110 volt controls and NEMA 1 electrical enclosures.

Optional Features:

Special controls and electrical enclosures.

Refrigeration-Type Industrial Gas Dryer

Typical Application:

Low pressure situations for controlling atmospheric gases.



Features:

Power-on light, high temperature warning light, on/off switch, refrigeration analyzer gage, gas-out gage, gas-in temperature gage, low suction pressure cut-out, high head pressure cut-out, hot gas bypass capacity control, start push button pump down shut off cycle, oil pressure control, and suction accumulator.

Optional Features:

Special control and electrical enclosures.

Lectrodryer Filters

The Lectrodryer type SF and type F filters provide high efficiency filtration with ten sizes available in each type for flows to 8400 SCFM, larger sizes available on application. Both types have a high level filter efficiency of 99.985% retention (0.015 DOP penetration) for filtration to a 0.3 micron



Lube Oil / Air Tanks

Lectrobreather tank vent dryers prevent atmospheric moisture from entering storage during "breathing" due to ambient temperature changes and draining periods. Valuable oils and chemical solutions remain free of water contamination.



CRN



IECEX



SQL



CONTINUING THE TRADITION OF QUALITY AND SERVICE SINCE 1932

LECTRODRYER

P.O. Box 2500, Richmond, KY 40476-2602 U.S.A.
Phone: (859) 624-2091 Fax: (859) 623-2436
Website: www.lectrodryer.com E-mail: info@lectrodryer.com