



- Protects damage to moisture sensitive products
- Absorbs moisture drawn into storage tank during unloading or by "thermal breathing"
- Desiccant can be reactivated thousands of times without appreciable loss in efficiency
- Humidity indicator informs when desiccant bed should be changed
- Available in 2" or 3" NPT or flanged connections

## The Shand & Jurs Model 94321 Air Dryer

The Shand & Jurs Model 94321 Air Dryer absorbs moisture from the air that is drawn into a storage tank during the unloading of product or by "thermal breathing" conditions. Desiccant of high absorptive capacity is used as the drying agent. The hard ball shaped form of the desiccant minimizes the pressure drop, permitting more efficiency. This is a function of material surface area and retention time. The nature of the desiccant does not change the flow of gas up to the point of maximum saturation since the moisture is absorbed within the pores of the material. The desiccant is contained in a perforated stainless steel basket that can be easily removed for cleaning or maintenance.

Model 94321 Air Dryer is 40 inches high and both the cover and basket can be removed through the

use of 3/8" bolts. The desiccant basket holds 50 pounds on the 2" size and 200 pounds on the 3" size; this is the recommended amount required to properly operate the air dryer. The air dryer is available in 2" or 3" NPT or flanged to match 150 lb. ANSI connections. Nominal flow for 1" W.C. pressure drop is 840 SCFH for the 2" size and 3500 SCFH for the 3" size.

The humidity indicator is a good barometer to monitor when the desiccant bed is saturated. To reactivate a saturated desiccant bed, heat the bed to 400°F until all moisture is vaporized. The desiccant can be subjected to thousands of absorption-reativation cycles without any appreciable loss of efficiency.



### MODEL NUMBER SELECTION:

The model number will consist of a base number 94321 followed by 2 numbers which represent the options listed in the following tables:

94321 - AB

Size and Connection



### ORDERING INFORMATION

Specify:

1. Model 94321 Air Dryer
2. Size
3. Connection Type

**TABLE I - (AB) SIZE AND CONNECTION**

OPTION #	SIZE	CONNECTION TYPE	DESSICANT CAPACITY
01	2"	NPT	50 lbs
02	3"	NPT	200 lbs
03	2"	FLANGED	50 lbs.
04	3"	FLANGED	200 lbs

\* Note Price includes Dessiccant

### SPECIFICATIONS

	2"	3"
Overall Height	40 "	40"
Body Diameter	8"	16"
C/L Inlet to Base	2 3/4"	3"
C/I Outlet to Base	35 3/4"	36"
Dessiccant	96% Calcium Sulfate 4% Calcium Chloride	
Dessiccant Capacity	50 lbs	200lbs
Shipping Weight (without dessiccant)	75 lbs	135 lbs

### REPLACEMENT SUPPLIES

PART #	DESCRIPTION
9432-10476	Indicating Desiccant 1 lb.
9432-10475	Desiccant Granules 50 lb
9432 11020	Basket 304SS 2" Model
9432-11060	Basket 304SS 3" Model
9432-11070	Cover Gasket N8090 2" Model
9432-11080	Cover Gasket N8090 3" Model

### DESSICANT INFORMATION

CALCIUM CHLORIDE	
Avg. Particle Size	Approximately .25"
Normal Mesh Ring	4 - 8
Water Absorption	10%
Regeneration: Bake in oven at 400 Degrees F (204 C) until dry.	
Consult Factory for other Materials	