

SHAND&JURS

94321 Air Dryer

The Shand & Jurs 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.

The 94321 Air Dryer is 40 inches high and both the cover and basket can be removed through the use of 3/8'' bolts. The air dryer is available in 2'', 2"XL, or 3'' NPT or flanged to match 150 Ib. ANSI connections. The desiccant basket holds 50 pounds on the 2'' size, 100 pounds on 2"XL size, and 200 pounds on the 3'' size; this is the recommended amount required to properly operate the air dryer. Nominal flow for 1'' W.C. pressure drop is 840 SCFH for the 2'' size, 1320 SCFH for 2"XL 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-reactivation cycles without any appreciable loss of efficiency.



Features

- 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



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Specifications

Construction: Mild Steel - 2", 2"XL, or 3"

Gasket Material: Non-Asbestos Coposition - 2", 2"XL, or 3"

Maximum Pump Out Rate*: 2" - 150 gpm; 2"XL - 300 gpm; 3" - 600 gpm

Design Pump Out Rate*: 2" - 75 gpm; 2"XL - 150 gpm; 3" - 300 gpm

Water Vapor Capacity (Approx.): 2" - 5 lbs.; 2"XL - 10 lbs; 3" - 20 lbs.

Outline Dimensions

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Du-Cal Dessiccant: 2" - 50 lbs.; 2"XL - 100 lbs.; 3" - 200 lbs.

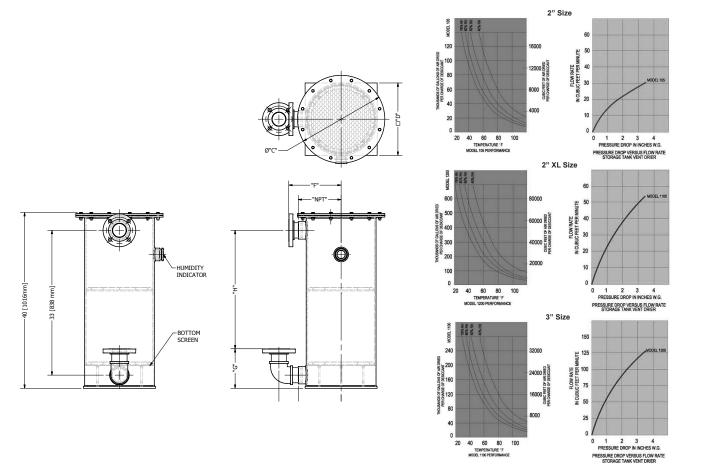
Pressure Drop: See Graphs

Desiccant capacity:

pounds of 4-mesh

Dew point of dried air at design flow rate: -100°F

* The maximum pump out rate should only be used for short durations, that is 30 to 45 minutes. For longer periods of operation, the design pump out rate should not be exceeded.



Size	С	D	E	F	G	Н	NPT
2"	12" (305mm)	12" (305mm)	9 3/4" (248mm)	8 1/4" (210mm)	8 1/2" (216mm)	27 1/4" (692mm)	5 13/16" (148mm)
2" XL	15" (381mm)	15" (381mm)	11" (276mm)	9 1/2" (241mm)	8 1/2" (216mm)	27 1/4" (692mm)	7 1/16 (179mm)
3"	20" (508mm)	16 1/2" (419mm)	14 1/4" (362mm)	12" (305mm)	9" (238mm)	27" (686mm)	9 13/16" (249mm)

All designs subject to change. Certified dimensions and specifications available upon request.

