Installation Instructions
For all sizes of Single Standard Rotary Syphons
with Flanged Condensate Pipes

For Dryers with Manholes

Follow your company’s safety procedures whenever working on Kadant Johnson products. Read all of the instructions before proceeding with installation or repair.

Please refer to the Kadant Johnson assembly drawings for part identification. Assembly drawings are available on request from Kadant Johnson.

Tighten all fasteners in a star pattern. Torque specifications are listed on the product assembly drawing and are available from Kadant Johnson.

A. This syphon has been shipped with its spring in a relaxed position. Prior to installation tension should be applied to the spring (9).

   Clamp the syphon in a bench vise. Check to be sure that the eye bolt (5) is seated in the bottom of the half moon key slot (12). Using a wrench, thread the two nuts (6 and 7) up the adjusting tube (4) until the top nut reaches the weld stop (11) near the end of the adjusting tube. Lock both nuts together.

B. Stand the assembled syphon unit vertically at the lengthwise center of the dryer with the condensate pick-up fitting (1) at the bottom. The flanged outlet of the elbow fitting (3) should face the condensate outlet end of the dryer.

C. Place the flanged horizontal condensate pipe in the dryer. Insert the plain end out through the dryer journal and make up the flanged connection to the outlet of the syphon. The flanged pipe, bolts, nuts and gasket are usually furnished by Kadant Johnson.

D. Check the location of the syphon, making sure that the horizontal condensate pipe extends through the journal the proper distance for the rotary pressure joint installation.

E. Plumb the syphon unit using the vertical condensate riser (2) as a plumbing surface.

F. Unscrew the eye bolt (5) to release the spring tension and move the pressure plate (10) up to contact the top part of the dryer. The eye bolt should be completely removed. Proper spring tension to hold the syphon in place has now been applied.

G. The syphon is now ready for operation and the rotary pressure joint can be installed.

INSTALLATION SUGGESTIONS

The standard horizontal condensate outlet connection for these syphons varies from 1/2˝ to 1-1/4˝ depending upon the syphon size. They are sometimes furnished with special pipe sizes for special applications. Check your syphon and joint specifications before the time of the installation to verify the horizontal condensate pipe size and type of connection furnished.

It is suggested that all of the syphons in a dryer section be installed in the same position and that an indicating mark be made on the outside of the dryers. During shutdown periods, the syphon pick-up fittings should be stopped at the bottom so that the dryers will continue to drain.

All of the condensate handling parts of a heavy duty rotary syphon are of stainless steel construction.

The Kadant Johnson Warranty

Kadant Johnson products are built to a high standard of quality. Performance is what you desire: that is what we provide. Kadant Johnson products are warranted against defects in materials and workmanship for a period of one year after date of shipment. It is expressly understood and agreed that the limit of Kadant Johnson’s liability shall, at Kadant Johnson’s sole option, be the repair or resupply of a like quantity of non-defective product.

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