

# Installation Instructions

## For all Sizes of Single Heavy-Duty Rotary Syphons

### For Installation through Manholes Only

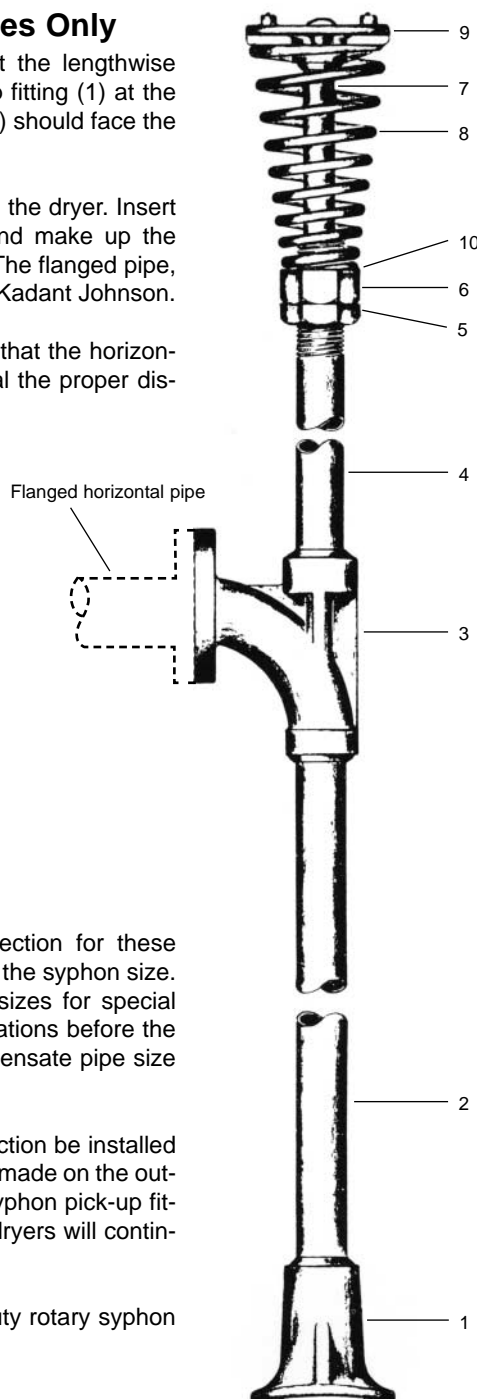
- Stand the assembled syphon unit vertically at the lengthwise center of the dryer with the condensate pick-up fitting (1) at the bottom. The flanged outlet of the elbow fitting (3) should face the condensate outlet end of the dryer.
- Place the flanged horizontal condensate pipe in the dryer. Insert 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.
- 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.
- Plumb the syphon unit using the vertical condensate riser (2) as a plumbing surface.
- Turn hex nut (6) to compress the heavy duty coil spring (8) and to move the pressure plate (9) up and into contact with the upper part of the dryer shell. Continue to turn nut (6) until it has reached the weld stop (10) near the end of the threaded adjusting tube. Lock nut (5) against nut (6).

### INSTALLATION SUGGESTIONS

The standard horizontal condensate outlet connection for these syphons varies from 3/4" 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.



### DESCRIPTION OF PARTS

- Oval shaped cast stainless steel condensate pick-up fitting with stellite tips on support pads. Bored for smooth flow transition into vertical condensate pipe.
- Schedule 40 stainless steel vertical condensate pipe socket welded to pick-up fitting and to elbow fitting.
- Heavy duty long-sweep cast stainless steel elbow fitting with standard flange for horizontal pipe connection.
- 1-1/4" heavy wall steel tube socket welded to elbow fitting.
- Jam nut for securing spring position.
- Hex nut for applying spring tension.
- 7/8" round steel stud socket welded to pressure plate with close tolerance slip-fit into tube part.
- Heavy duty coil spring.
- Ribbed oval-shaped ductile iron pressure plate with stellite tips on support pads.
- Weld Stop.

### 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.

**KADANT**  
JOHNSON

www.kadantjohnson.com