

Saturation rate of the Watchdog® Oil Dryer

The Trico Watchdog Oil Dryer is a passive drying system designed for bearing housings and other applications where moisture levels must be minimized. Relative humidities are substantially reduced in most applications.

Below is a reference chart of the saturation rate of the Watchdog Oil Dryer to use as a guide when determining how long it will continue to pick up moisture.

The reference rate chart below is based on specific conditions including the following:

- There is 85 grams of desiccant in the Watchdog Oil Dryer.
- The temperature is 77 degrees Fahrenheit.
- The size of the housing being monitored is 177 cubic in. (mid-range centrifugal pump housing).
- At 100% relative humidity the 85 grams of desiccant will hold 5.44 grams of water.

Please note the following:

The saturation rate of the Watchdog Oil Dryer will vary per application by whether the application is vented or non-vented. The chart below is based on a non vented, or closed, system with the % relative humidity remaining constant. If the application is vented, the saturation rate will vary depending on the air exchange with the outside atmosphere.

