

# SERIES PVC780

## Thermoplastic Resin Storage Tank Air Dryer

### CAUTION:

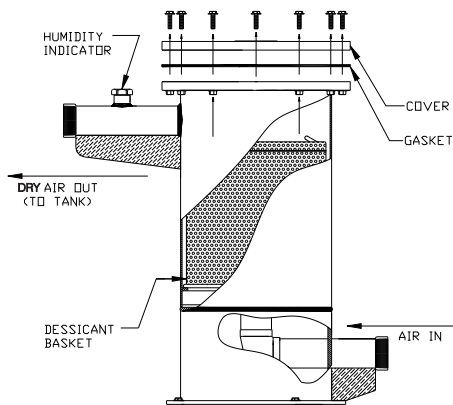
If any questions arise concerning the proper installation or maintenance of our products, please contact Protectoseal or one of our Authorized Representatives.

When installing any Protectoseal device, the legal, corporate and advisory safety regulations and procedures appropriate for the specific installation site must be fully understood and followed.



- Note 1:** This Air Dryer includes a removable cover and desiccant basket.
- Note 2:** The Air Dryer is usually sold with a drum of desiccant material (Protectoseal Part No. 780S30) that is shipped separately.
- Note 3:** The base of the Air Dryer is provided with holes so that the device may be bolted securely in place according to the end users requirements and/or safety directives.

3. Mount the Air Dryer in location. The dryer should be secured according to the end user's corporate safety/operational guidelines. Connect appropriate piping to dryer's inlet and outlet per facility requirements.
4. Fill the basket with approximately 30 pounds of silica gel desiccant (Protectoseal Part No.: 780S30). Reinstall basket in dryer body. Replace gasket and cover. Reposition (12) sets of nuts, bolts and washers and tighten in a criss-cross pattern. Torque bolts to 30 in-lbs.



### INSTALLATION PROCEDURE:

1. Loosen and remove the (12) sets of nuts, bolts and washers from the top cover assembly. Remove the cover and gasket. Set aside
2. Remove and discard all protective tape and packaging materials from inside and outside of the dryer. Remove the desiccant basket and set aside for later use.

## MAINTENANCE:

Protectoseal recommends that our products be inspected and maintained according to the normal maintenance schedule of the facility. At a minimum, maintenance should be conducted annually. More frequent maintenance may be required, and should be scheduled, for unusual service conditions.

**CAUTION: When maintaining any Protectoseal device, the legal, corporate and advisory safety regulations and procedures appropriate for the specific installation site must be fully understood and followed.**

**CAUTION: Tank vapor space pressure or vacuum should be relieved before any maintenance operations are undertaken.**

**Note 1:** The humidity indicator face is comprised of four circles marked 20, 30, 40 and 50. These numbers represent the percentage of relative humidity. The color of these circles can change from light pink to blue.

**Note 2:** With relative humidity below 20%, all four circles will be blue. As the humidity increases, the color will change to pink. All pink circles indicate a relative humidity above 50%. As the humidity decreases, the circles will change back to blue.

**Note 3:** In normal use, the indicator will function for 2 to 3 years. If the circles lose all their color (white background) the indicator (Protectoseal Part Number: 782-19-300) should be replaced.

## MAINTENANCE PROCEDURE:

1. Loosen bolts and remove cover & gasket.
2. Inspect the gasket and replace if deteriorated or damaged.
3. Remove desiccant basket. Remove any loose dirt or foreign material from the housing interior and exterior. Desiccant may be replaced or regenerated as required.
4. Reinstall the filled desiccant basket.
5. Replace gasket and cover. Reposition (12) sets of nuts, bolts and washers and tighten in a criss-cross pattern. Torque bolts to 30 in-lbs.

### Desiccant Characteristics:

Protectoseal part No. 780S30 consists of 30 lbs. of silica gel desiccant.

Water Absorption Capacity - Approximately 8 lbs. of water per 30 lb. desiccant charges.

Desiccant Regeneration - Bake in oven at 450°F for eight hours.

## ADDITIONAL PRODUCTS FROM PROTECTOSEAL

Series 18540



Pipe-Away Pressure Vacuum Relief Vent for applications that require hazardous vapors be processed into manifolded piping and not released into the atmosphere

Series 7800



Emergency Vent protects tanks against rupture or explosion resulting from excessive internal pressure caused by exposure to fires

Series 4950



Vent Line / In-Line Parallel Plate Flame Arrester is designed for installation in open vent pipe or bleed lines from storage or processing tanks. Suitable for NEC Group D (IEC Group IIA) vapors

Series 830



Combination Pressure / Vacuum Relief Vent & Flame Arrester provides pressure and vacuum relief as well as protection from propagation of externally introduced flames. Suitable for NEC Group D (IEC Group IIA) vapors