APV
AN SPX BRAND

SPX Flow Testex

Cost Effective Cross Contamination Detection

Testex is offered as part of SPX Flow's Testing Services and is used to ascertain the integrity of plate heat exchanger plates. The patented Testex process is principally aimed at the hygienic market, where customers are particularly concerned with cross contamination. Testex can find holes as small as 3 microns, which makes it the most accurate test currently available on the market. The tests are performed at the customer's site and can be performed in as little as four hours if no plate failures are identified.

SPX Flow Testex process enables the complete testing of plate heat exchangers. With the use of state-of-the-art electronic monitoring equipment, each plate pack can be analyzed and hard copy results produced along with a test certificate providing a full audit trail.

When Testex was first introduced it was found that more than 30% of heat exchangers were shown to have defective plates. Regular testing enables problems to be eliminated before they develop into a major incident. Testex is a recognized method found in 3A standard T-603-07 as an accepted practice for the testing of HTST heat exchangers.

Features of Testex:

- The Testex range can pick up even the smallest cracks
- Testing is carried out under pressure
- Utilizes state-of-the-art monitoring equipment
- Identifies the occurrence of cross contamination without the PHE being dismantled
- Adaptable to many models & sizes of PHE's

Benefits of Testex:

- Provides the customer with plant safety assurance
- Production conditions are simulated as closely as possible during the tests
- Reduces false readings and human error
- Plant down-time is drastically reduced. Plates & gaskets are not unduly stressed
- A wide variety of PHE's can be tested, in differing environment

SPX Flow service assures our customers that their assets are being maintained by factory trained technicians using calibrated testing equipment. We recommend incorporating semi-annual TESTEX service into your preventative maintenance program. SPX Flow Contract Service Customers are monitored for regularly scheduled preventative maintenance from our experienced personnel. SPX Flow's portfolio of service programs helps you achieve excellence by allowing you and your associates to focus on your product, not on your equipment.

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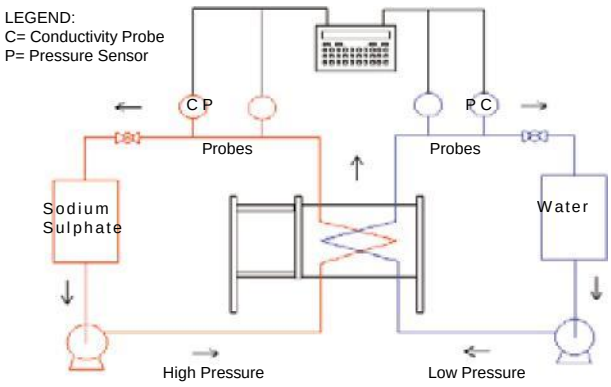
Testex - Process Explanation

The Testex process consists of the detection of defective plates in the plate heat exchanger through Electrolytic Differential Analysis (EDA). EDA is used to determine if cross contamination is present. A consistent rise in the conductivity of the water indicates the presence of defective plates.

Electric Differential Analysis (EDA)



Procedure:

- One side of the PHE filled with an electrolyte – usually sodium sulfate
- Other side filled with water
- Solution circulated using pumps
- The pressure of the electrolyte is increased to create a differential pressure of between 30 psi to 100psi
- The conductivity of the water is monitored
- Any consistent rise in conductivity of the water when pressure is applied indicates faulty plates

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For more information about our worldwide locations, approvals, certifications, and local representatives, please visitFwww.spxflow.com.
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