

# Poultry Vaccine Filtration

Pharmaceutical, India



<b>Customer / Project:</b>	Poultry Group
<b>Industry Sector:</b>	Pharmaceutical
<b>Application:</b>	Poultry Vaccine Filtration
<b>Products:</b>	Trolley Mounted Manual SIP/CIP System
<b>Primary Motive:</b>	New Product Development
<b>Location:</b>	India
<b>Project Date:</b>	July, 2019
<b>Division:</b>	India

### Customer Overview:

One of Asia's leading fully-integrated poultry groups. The company diversified its activities to include:

- specific-pathogen-free (SPF) eggs
- chicken and egg processing
- broiler and layer breeding
- bio-security products
- poultry feed, nutritional health products, soya bean extract
- genetic research and poultry diseases diagnostics
- poultry vaccines and feed supplements, vaccine production

### Customer's Problem:

Within the poultry vaccine line, the existing filtration system was not adhering to GMP standards. Improvements were required, as product was being lost from within the system. Moreover, they were using three separate filter housings which was causing delays in the production line.

### Porvair Solution:

Our solution was to design a SIP/CIP able system as per GMP standards which incorporated five round of 20" long filters on a trolley-mounted system. The system can be on-line integrity tested with provision of a temperature sensor and validation ports.

This system offered several key benefits. System downtime was greatly reduced by using a complete solution rather than three individual filters, meaning that operators could complete batch within stipulated time. This change was made even quicker with the inclusion of on-line Integrity testing of the final filter.

### Project Overview:

We worked closely with project and production departments, implementing our designs and ensuring that they were compatible with the process system and its components. The system was designed based on scale-up trials. The system was fabricated by an audited sub-contractor, then commissioned and technical training provided to the operators. Complete DQ/OQ and IQ documentation was also submitted.

### Product and System Information:

- Polyfil™ II - Polypropylene depth absolute rated cartridge filters
- Biofil™ II - Polyethersulphone Membrane Cartridge Filters

### Other Opportunities:

- Biopharmaceutical production
- Active Pharmaceutical Ingredients (APIs)
- Veterinary medication

