

NIRO FILTRATION

Process Applications

Niro Filtration has extensive experience in processing a wide range of products on a commercial basis and by testing products at plant site or in our pilot plant testing facility.

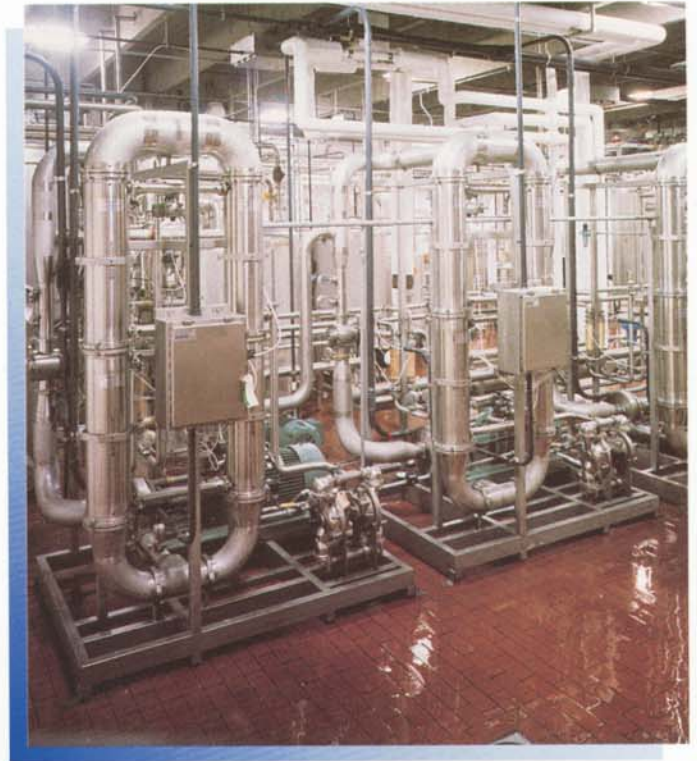
The product knowledge we gained by this experience is indicated by the following list of products suitable for processing on a Niro membrane filtration system. These systems include microfiltration, ultrafiltration, nanofiltration and reverse osmosis with either spiral wound, ceramic, tubular, or plate and frame configurations.

Dairy Industry

- Skim Milk Concentration
- Whey Processing
- Lactose Recovery
- Evaporator Condensate Recovery
- Brine Clarification
- Cleaning Chemicals Recovery
- Specialty Products
- Salt Whey Processing
- Mozzarella Cooker Water Recovery

Waste Water

- Wheat Starch Waste Water
- Potato Starch Recovery
- Stick Water Recovery
- Egg Process Waste Stream
- Metals Recovery
- CIP Chemicals Reclaim
- Evaporator Condensate Recovery
- Oily Water Recovery
- Tomato Waste Water
- Specialty Chemicals Recovery
- Syrup/Sweetener Recovery
- Pasta Starch Recovery
- Rendering Plant Wash Water
- Dairy Plant Waste Water
- Lime Process Waste Water
- Corn Starch Wash Water



Food & Beverage

- Brine Microfiltration
- Specialty Ethnic Foods
- Food Ingredients/Flavors
- Process Water Reclamation
- Dealcoholization of Beer
- Dealcoholization of Wine
- Soy Milk Whey
- Soy Protein Isolate
- Starch/Gluten Recovery
- Aloe Vera Juice
- Grapefruit Juice
- Strawberry Juice
- Orange Juice
- Peach Juice
- Pineapple Juice
- Apple Juice
- Pear Juice
- Carrot Juice
- Celery Juice
- Maple Syrup
- Beef Stick Water

Food and Beverage Continued...

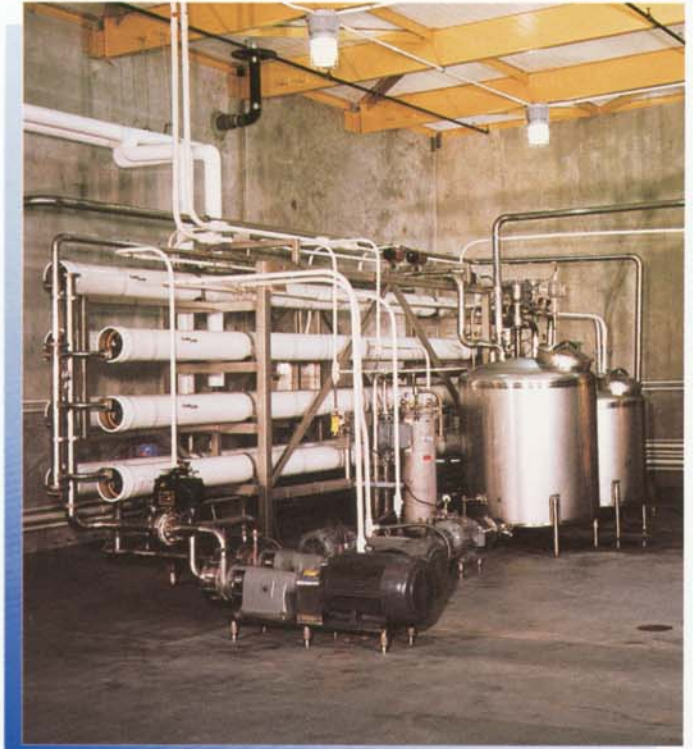
Surimi Wash Water
Gelatine Production
Potato Starch Recovery
Dextrose Clarification
Corn Syrup Clarification
Malto Dextrin Clarification
Fructose Clarification
Egg White Concentration
Whole Egg Concentration
Porcine Bovine Blood Plasma
Chicken Blood Water

Fermentation & Biotechnology

Bacillus Thuringensis
Somatotropin
Bacitracin
Penicillin
Cephalosporin
Lysozyme
Streptomycin
Tetracycline
Lactic Acid Production
Butyric Acid Production
Citric Acid Production
Acetic Acid Production Protease Enzyme
Cellulase Enzyme
Peroxidase Enzyme

Chemical Industry

Pigment Production/Recovery
Industrial Gelatin
Metals Recovery
Pharmaceutical Intermediates
Industrial Salts
Caustic Clarification
Paper Additives
Process Water Reclamation
Polymer Production
Specialty Chemicals
Kaolin Clay
Titanium Dioxide
Kraft Black Liquor
Spent Sulphite Liquor
Vanillin
Paper/Textile Dyes



Niro Filtration has been a leading supplier of membrane filtration technology for more than 10 years. Plants designed by Niro are known for their latest technology, performance, and energy efficiency.

Our plants can be used to meet special liquid separation requirements by utilizing Microfiltration, Nanofiltration, Ultrafiltration, or Reverse Osmosis. The simplicity and effectiveness of the technology allows membrane filtration to be established in many diversified industries, not only for the production of special products, but also as a means of meeting environmental standards on the plant site.

As an international engineering company, Niro offers product testing and process evaluation. A range of membrane filtration pilot plants are available for this purpose. We follow process development closely and adapt our know how to design membrane filtration systems.