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## WEDGEWIRE SCREENS

Wedgewire screens are manufactured to suit a wide range of applications. Our screen products are used extensively in chemical and petrochemical operations, water supply and treatment, as well as pulp and paper and food processing. Concord Screen can design and fabricate a prototype for any new development.

### Materials

Raw materials used for fabricating wedgewire screens are stainless steel: 304; 304L; 316; 316L, and 321. For special applications Concord Screen utilizes 410 stainless steel; 2205 stainless steel; Alloy 20; Monel 400; Alloy 600; Alloy C-276, Hast B3, SMO254 and Titanium Grade 2 and 7. Technical support can assist in the selection of the correct materials for special purpose applications.



## Concord Screen Treatment And Media Retention



### INLET DISTRIBUTORS AND COLLECTORS

**Header-Laterals:**  
Header-lateral designs are useful in both vertical or horizontal vessels.

### Hub-Laterals:

In the hub-lateral arrangement, a radial pattern is formed by securing the screen laterals to a central hub. This design is typical of a smaller diameter ion exchange unit, since efficiency decreases as the distance between the laterals increases.

### Screen Lateral

As an efficient collector, the screen lateral is available in several sizes, with various slots and end fittings. Most commonly, the screen lateral is provided with one end capped and the other end with a threaded pipe connection.

### Pipe Based Screen Lateral



Screen laterals are supplied with an internal or external distributor pipe when extra strength and/or more effective backwashing distribution is needed.



## Submersible Water Intake Screens

Concord Screen design and build water intake screens for all types of industry; Nuclear, hydroelectric, coal, gas, oil and chemical plants, pulp and paper mills, and public and private water companies.

Intakes are supplied in either Tee style or Drum style. Always incorporated in the design is Concord Screens own wedge wire.



### NOZZLE AND ORIFICE PLATE ASSEMBLY

Nozzles are installed in a vessel orifice plate. Typical configuration has a stem projecting through each orifice and secured with a nut and washer. Screens are manufactured to suit customer requirements and are not restricted in size by length or diameter. Typical screens are fabricated with a blind cap on one end and washer fixed with a threaded stem on the other end.



### SCREEN SUPPORT GRID

The support grid is a flat screen that provides uniform flow collection which is essential in many applications. This is particularly important when screens are used to reserve expensive ion exchange resins. Screen support grids are fabricated in segments to allow installation through a vessel man-way.



### RESIN TRAPS

Resin traps are custom designed to minimize pressure loss through the screen. They are used downstream from ion exchange vessels and serve as a means of minimizing the loss of ion exchange resins.

## FILTRATION & STRAINING EQUIPMENT

Concord Screen manufactures a wide range of filters and strainers. Concord Screen specializes in the handling of liquids from all types of industry. Standard fabrications are carbon and stainless steel. A wide range of exotic alloys are available to satisfy the most demanding applications.

### Bag Filter Housings



Our complete line of bag filter housings can handle flow rates of 5 GPM up to 4000 GPM. Bag filtration is an excellent means of filtering out particulate as large as 800 micron and as fine as 1/4 micron. Specialty bags can be supplied to handle heavy solid loads and even remove trace amounts of oil from other liquids.



### Manual Strainer Housings



Concord Screen manufactures a full line of manual single basket strainers and duplex body strainers. This style of straining is ideal for both protectionary straining and maintenance of product liquid. Baskets require manual removal and cleaning. The duplex arrangement will allow for uninterrupted of system flow. One chamber is isolated for basket removal and cleaning whilst the second chamber remains on line.



### Automatic Filters and Strainers

At the heart of all Concord Screen Automatic Filters and Strainers is Concord Screen Wedge wire. Offering both high open area percentage and excellent backwashing characteristics wedge wire is the most widely used media for self cleaning industrial applications. With five standard designs of automatic filters and strainers Concord Screen can correctly suit your application with the most effective automatic filter or strainer.



## FILTER BAGS & ACCESORIES



Concord Screen has a dedicated division to manufacture replacement filter bags. Filter bags are fabricated to fit any style or design of filtration housing. Materials are supplied in Polyester, Polypropylene, Nylon Mono Filament and Nylon Multi Filament. Exotic fabrics such as FOS used to absorb tramp oil from other liquids are also available.



For no hazardous application Concord Screen offers a unique adapter head to hold a standard filter bag eliminating the need for complete filter housing. Adapter heads are available in either threaded connection or butt weld style.