



Innovation, teamworking  
& High ethical standards



Enology

Filtration & system solutions



## History

BEA Technologies S.p.A designs and manufactures, in its Italian facility, lines of products specific for the filtration of gas and liquids besides the assembling of Microfiltration systems.

Our Research & Development department is constantly focused on improving the product range to incorporate the latest technologies available on the market.

BEA organization is based on 3 Sales Divisions to be able to provide the technical expertise necessary to give solutions and supports to the different applications in the following sectors: Microfiltration, Industrial and Process filtration, Compressed air and gas treatment.

We are committed to solve the current needs of the customers and to work to satisfy the future requirements. All our filter elements are in compliance with national and international regulations and are supplied with the relative certifications.

We are organized to support our customer during the validation steps of a filtration process.

## Mission

BEA Technologies has always considered human resources a key factor to be developed to have a highly motivated and dynamic team oriented to “problem solving” and to satisfy the customer’s needs.



## Quality System

All the procedures controlling the manufacturing of our products are under the surveillance of our QUALITY SYSTEM which is certified according to ISO 9001 and 3834 by an international accredited institution.

BEA housings and pressure vessels are designed according to international construction codes and are CE marked according to PED (Pressure Equipment Directive) for which BEA Technologies is certified by a third party independent authorized institution.

## Assured quality

Bea Technologies provides reliable results and it is in compliance with regulations.



## Customer oriented

Bea Technologies provides solutions and services dedicated to the specific needs of the customer.

## Customer Service

We have a highly experienced team of filtration experts available to listen and advise the customers regarding the selection of the best filter for their specific application. Select BEA Technologies means to find a high quality and reliable partner oriented to "customer satisfaction".

## Logistic and global assistance

The customer service is working on proprietary information system to follow automatically the orders in all relevant steps of order processing – CRM – MPR planning.

The internal Data Management is executed on a virtual infrastructure which is implemented for the "Disaster recovery" to have immediate interchangeability of hardware and guarantee the safety of process data and customer's orders.

## Stock & warehouse

BEA Technologies keeps a stock of finished filters and semi-finished parts to be assembled according to customer's orders.

## Global Service

We have a network of Agents and Distributors to provide Pre and Post – sales assistance in Europe, USA, Asia and Middle East areas.



## Production

BEA Technologies manufactures critical filter elements in a Clean Room to comply with GMP guidelines and reduce any potential contamination.

The key production activities are constantly controlled by a computerized system.

The integrity of all the sterilizing membrane filter elements is individually checked with non-destructive test methods.

Destructive tests are performed according to ASTM F838-15 prescriptions, on a periodical basis, to guarantee an effective bacteria retention.

The bacterial retention results correlated with the integrity test data are reported in the Validation Guide for each membrane filter to define the acceptable integrity test values and guarantee the bacteria retention performance.

## Production

Who selects Bea Technologies has found the right partner: quality, reliability and collaboration oriented to the customer satisfaction.



## Filters for wine processing



### Starlife

#### Application

DEPTH Filtration

#### Features

MELT-BLOWN type filter element with decreasing porosity

#### Material of construction

Polypropylene

#### Filtration Rating

Nominal with high dirt holding capacity

### Vinolife

depth filter elements

#### Application

Clarification and polishing

#### Features

DEPTH filter element with multilayer construction with internal core for increased mechanical resistance

#### Material of construction

Polypropylene with external cage in option

#### Filtration Rating

Absolute

### Bravopleat

pleated filter elements

#### Application

Particle filtration

#### Features

Multilayer pleated filter

#### Material of construction

Polypropylene with HOT-MELT assembly technology

#### Filtration Rating

Nominal with high dirt holding capacity

### Polysan

pleated filter elements

#### Application

High efficiency Particle filter

#### Features

Pleated filter element with high filtration surface

#### Material of construction

Polypropylene multilayer with assembly by THERMOWELDING

#### Filtration Rating

Absolute

### Polyverse

pleated filter elements

#### Application

Trap filter and retention of tartrates

#### Features

Filter configuration specific to allow numerous regeneration cycles by backwashing . Engineered to reduce consistently the filtration cost

#### Material of construction

Integrally built in polypropylene

#### Filtration Rating

Absolute



## Filters for wine processing



### Vinotrak

pleated filter elements

#### Application

Bioburden reduction and yeasts retention

#### Features

Pleated configuration made with NANOFIBERS with high flow and retention efficiency

#### Material of construction

Polypropylene NANOFIBERS and bosilicate microfibers

#### Filtration Rating

Absolute

### Novatrak

pleated filter elements

#### Application

High efficiency filtration and Bioburden reduction

#### Features

Pleated configuration made with NANOFIBERS with graduated porosity

#### Material of construction

Full polypropylene NANOFIBERS

#### Filtration Rating

Absolute

### Cleartrak

pleated filter elements

#### Application

Particle filtration and retention of contamination of colloidal form

#### Features

Configuration able to develop a natural electrostatic charge to adsorb the contaminant particles more efficiently

#### Material of construction

Pleated polypropylene with Borosilicate microfibers

#### Filtration Rating

Absolute and nominal depending from filtration rating

### Posittrak Plus

pleated filter elements

#### Application

Bioburden reduction and retention of colloidal particles at high efficiency

#### Features

Pleated polypropylene electrically charged and Borosilicate microfibers

#### Material of construction

Polypropylene with Borosilicate microfibers

#### Filtration Rating

Absolute



## Membrane filters for wine processing

pleated filter elements

### Biodene

#### Application

Final sterilizing filter element integrity testable

#### Features

Cold stabilization of wine

#### Material of construction

PVDF membrane

#### Filtration Rating

Absolute rating-individually integrity tested in production

### Vinotest

membranes

#### Application

Membrane pre-filter integrity testable

#### Features

For the protection of final sterilizing cartridge, specific for yeasts retention

#### Material of construction

PES membrane with Borosilicate microfibers

#### Filtration Rating

Absolute rating-individually integrity tested in production

### Bioklaris Wine

membranes

#### Application

Final sterilizing filter element integrity testable

#### Features

Cold stabilization of wine with retention of all contaminants  
Easy regenerable with hot SODA solution

#### Material of construction

High surface PES membrane

#### Filtration Rating

Absolute rating-individually integrity tested in production

### Vinoflus

membranes

#### Application

Final sterilizing filter element integrity testable with double membrane

#### Features

Cold stabilization of wine

#### Material of construction

Double PES membrane

#### Filtration Rating

Absolute rating-individually integrity tested in production

### Micronyl

membranes

#### Application

Final sterilizing filter element integrity testable

#### Features

Cold stabilization of wine

#### Material of construction

NYLON 66 membrane

#### Filtration Rating

Absolute rating-individually integrity tested in production





## Poratech inox

**Application**  
Steam filtration and gas sparging

**Features**  
Isostatic sintered tube without weldings

**Material of construction**  
S.S. 316 L

**Filtration Rating**  
Nominal

## Solinox

**Application**  
Regenerable metal filter elements

**Features**  
Cylindrical wire mesh easy regenerable

**Material of construction**  
S.S. 316 L

**Filtration Rating**  
Nominal

## Steelpore

**Application**  
Filtration of mustard and viscous fluids

**Features**  
Filter made with pleated S.S. 316 sintered fibers

**Material of construction**  
S.S. 316 L

**Filtration Rating**  
Nominal at high performance

## Regenerable filter elements





## Large size filter elements



### Polex

depth

**Application**  
General filtration

**Features**  
Double MELT BLOWN depth filter

**Material of construction**  
All Polypropylene

**Filtration Rating**  
Nominal

### Magnex

pleated

**Application**  
Clarification and particle removal as an alternative to diatomaceous earth and filters sheet

**Features**  
Pleated filter element with high dirt holding capacity

**Material of construction**  
High efficiency polypropylene or polypropylene and glass fiber

**Filtration Rating**  
High efficiency

### Granfilter

pleated

**Application**  
High flow liquid treatment

**Features**  
Pleated filter element for high flow rate and low pressure drop

**Material of construction**  
High efficiency Polypropylene or Polypropylene and glass fiber

**Filtration Rating**  
High efficiency

### Biomagnex

pleated

**Application**  
High bio burden reduction

**Features**  
High surface in low dimensions

**Material of construction**  
PES membrane and polypropylene

**Filtration Rating**  
Absolute



## Beatest

A portable device to test membrane filter element using Diffusion or Pressure Hold test.

Friendly and easy to use, Beatest is able to store up to 19 test types by filter/housing and 100 results.

The test performed are saved and can be printed connecting to any PC.

## Integrity Tester





## Housings

We have designed a new housing series for beverage applications. Those housings comply with safety regulation and are easy to use during change out.

The housings are made of stainless steel Aisi 316L with DIN 11851 connections.

The finishing of internal/external surface are with mirror mechanical polishing or electro polishing.

## Housings





## Cellar filtration

# MAGNEXFLO Cellar filtration

The automatic equipment MAGNEXFLO is specifically designed to accomplish all the requirements typical of filtration in a cellar with a full respect of the wine characteristic.

The usual filtration made with diatomaceous earth, filters sheet or the most advanced systems that adopt the cross flow filtration are usually stressing the wine characteristic compared to Bea Technologies MAGNEXFLO system.

Our technology is based on large size filter elements manufactured using inert material as polypropylene.

The main characteristic of these filter elements is an high dirt holding capacity compared to the ordinary filter elements available on the market combined with backwashing system that avoids change over procedures.

The MAGNEXFLO systems allow the oenologist to produce a wine respecting its own characteristic in taste and flavor together with a reduced investment and a cost saving effect.

The main highlights are:

- a flexible modular systems
- possibility to adjust the filtering area according to the specific needs
- controlled temperature of the wine with an higher respect for its characteristics
- energy saving system with a strong cost reduction
- easy cleaning / maintenance of the system
- tailor made system for the customer needs





## Laboratory and R&D Department

BEA Technologies can perform complete and reliable analysis and feasibility studies.

Our Laboratory with a technical team of long experience in filtration, microfiltration and laboratory testing can provide the best support to customers for:

1. Scale-up process
2. Start-up of filtration systems
3. Particle size analysis
4. Bacterial challenge tests
5. Chemical compatibility studies
6. Training in filtration

## Lab and R&D

Bea Technologies is the solution for validation testing reliable and complete.



Filtration & system solutions

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