

IDRECO S.p.A.
INTERWAT s.r.l.

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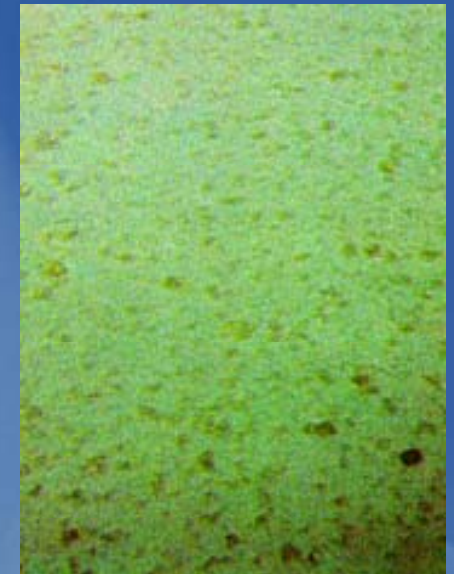
Founded: privately owned company, established in 1971

Export share: 70%



INTERWAT S.R.L. MISSION

- Interwat Srl purpose is to develop, manufacture and market ion exchange resins for high-technology application in Power Plants. Furthermore Interwat Srl supply filter elements, chemical products and assistance for specific application of the ion exchange resins.
- Interwat Srl products are optimized for each customer's needs and can be produced in a wide range of permutations by adjusting the parameters, such as particle mean size, size distribution, degree of cross linkage and ionic form.
- The technological capability of Interwat srl relies on the background and expertise in ion exchange resin productions and handed over by the long application and consequently great experience of Powdered Resins .



PRODUCT ENHANCEMENT

- The enhancement of the products and relative applications is guaranteed by continuous test in Pilot Plants , laboratory and quality controls, fill scale in industrial Power Plants designed, supplied and installed by our mother company Idreco Spa using ion exchange resin technology.



APPLICATIONS

The main applications in the conventional Power Plant are:

- polishing of condensate
- make-up water demineralisation

The main applications in Nuclear Power Plant are:

- polishing of condensate (for all types of reactor)
- reactor water cleaning (for BWR)
- fuel pool water clean-up (for all type of reactor)
- reactor coolant Cleaning (for PWR)
- floor drain (medium activity radwaste)
- M.B. condensate washing (low activity radwaste)



INTERWAT S.R.L. PRODUCTS

- Powered resins for Power Plants
- Bead Resins
- Chemical products for Power Plant
- Filter elements for precoat filters
- Inert fibers for Precoat filters (vegetable and syntetic)

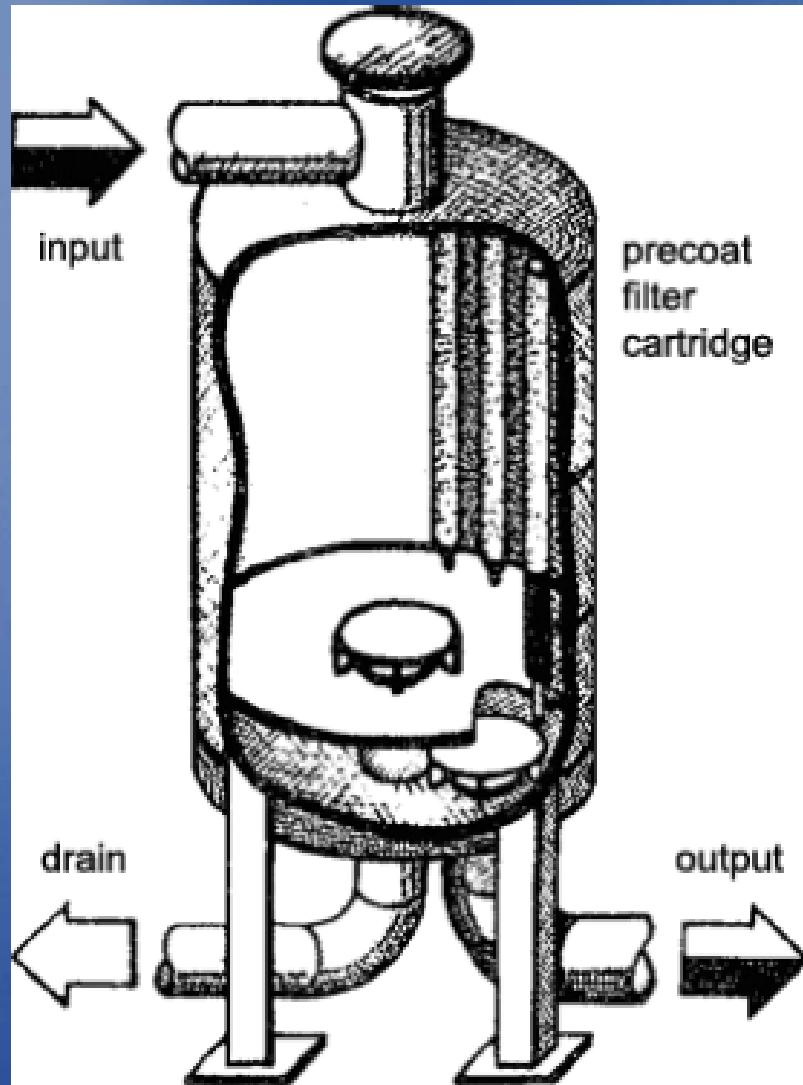


Decorex pilot plant

- For the continuous development of process knowledge and for testing any improvements that could be suggested by its experience, avails itself of full scale pilot plants. These plants are at clients availability for field tests and are equipped with two interchangeable unit shells, of which one in plexiglass allows the full view of a working precoat but necessarily limits the working conditions to 1 aim pressure and 39° C temperature; the other in carbon steel in suitable for 40 aim pressure and 160° C temperature.



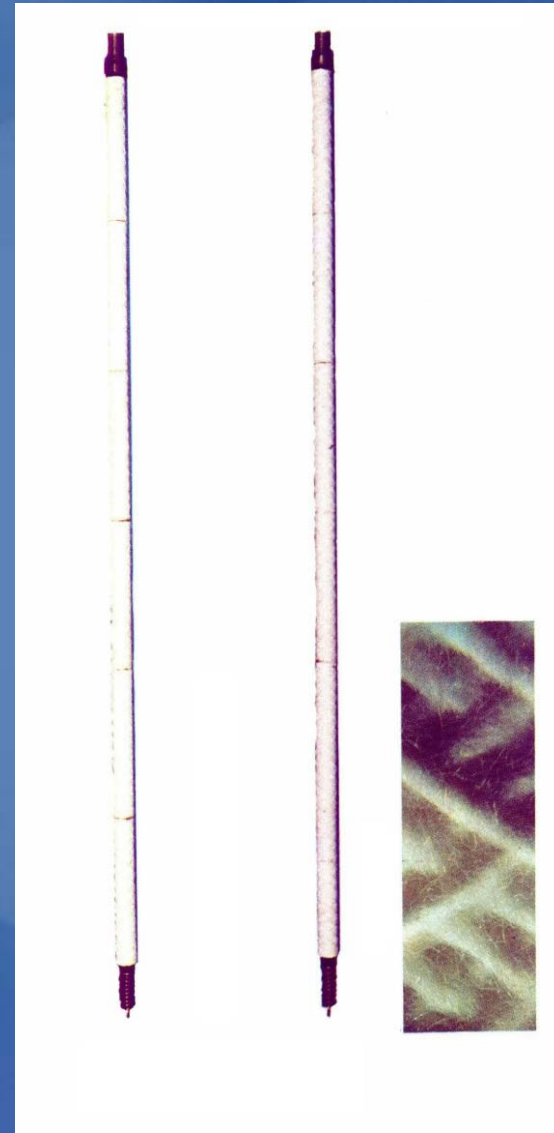
Decorex filtration system



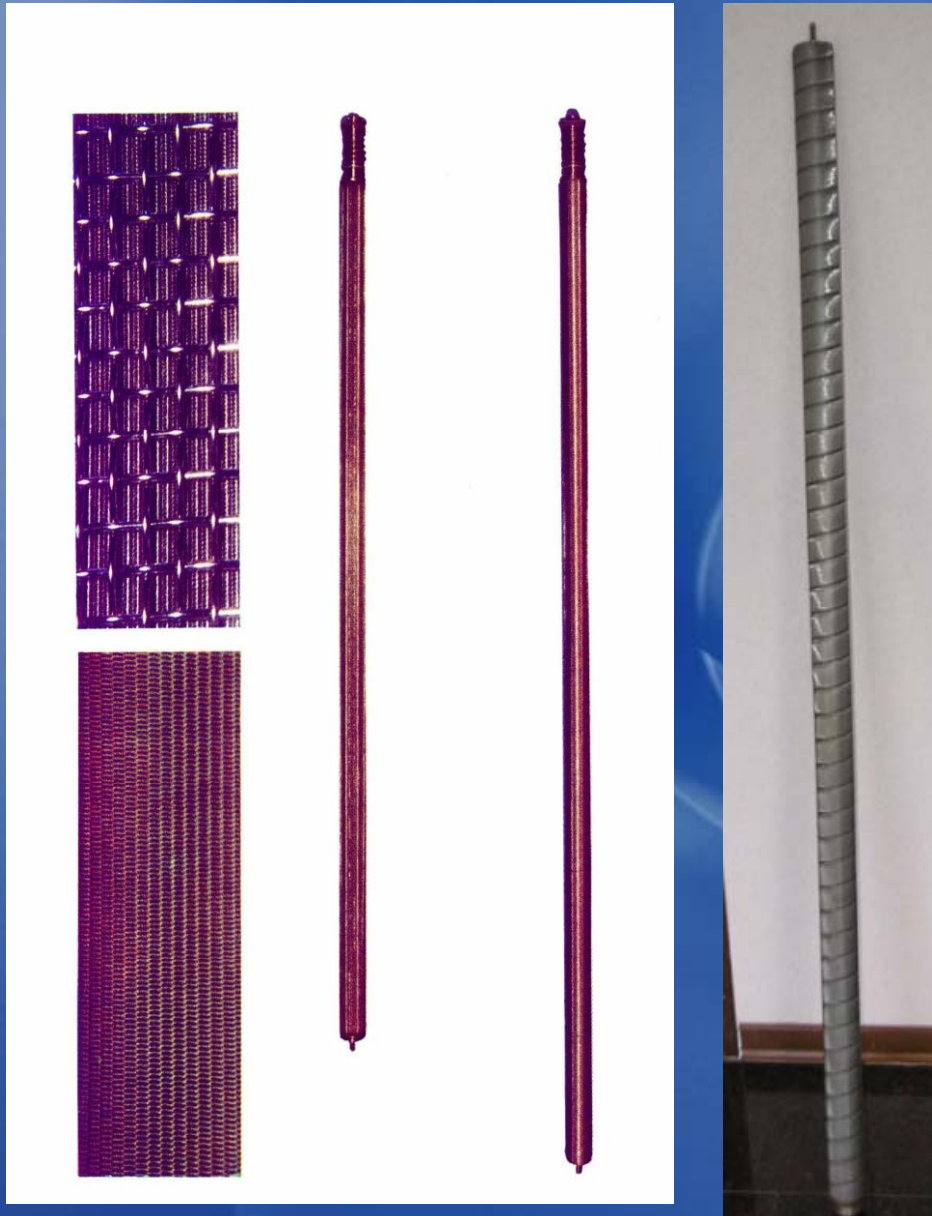
- DECOREX precoat type filters, have been explicitly engineered for all applications requiring the removal from water or aqueous solutions, (in the temperature range of 0-160° C) of extremely low concentrations of suspended and/or dissolved solids.
- The design engineers of IDRECO and INTERWAT who possess twenty years specific experience in this sector have developed a filtration system with several combinations of filtering elements and precoats to meet various requirements and conditions of application.
- The DECOREX FILTER, shown in is equipped with vertically mounted tubular filter elements that provide a large filtering area per unit of shell volume; the liquid to be treated enters the unit from the top, flows through the precoated elements, collects under the tube sheet, and leaves the unit from the bottom.

Filtering Polypropylene elements

- The polypropylene elements most commonly used in conventional or nuclear power stations are the wound type with metal centre. The standard, most common dimensions for these elements are $\text{Ø } 2''$, length 60" or 70". The elements can be tapered with rubber washers, or, applied directly on the installation without the use of these. The field of filtering capacity varies from 3 to 10 microns. Interwat can provide elements of this type, besides all the know-how and assistance necessary for the mounting and use of these elements and substitution of pre-existing elements with products of our make.



Filtering stainless steel elements

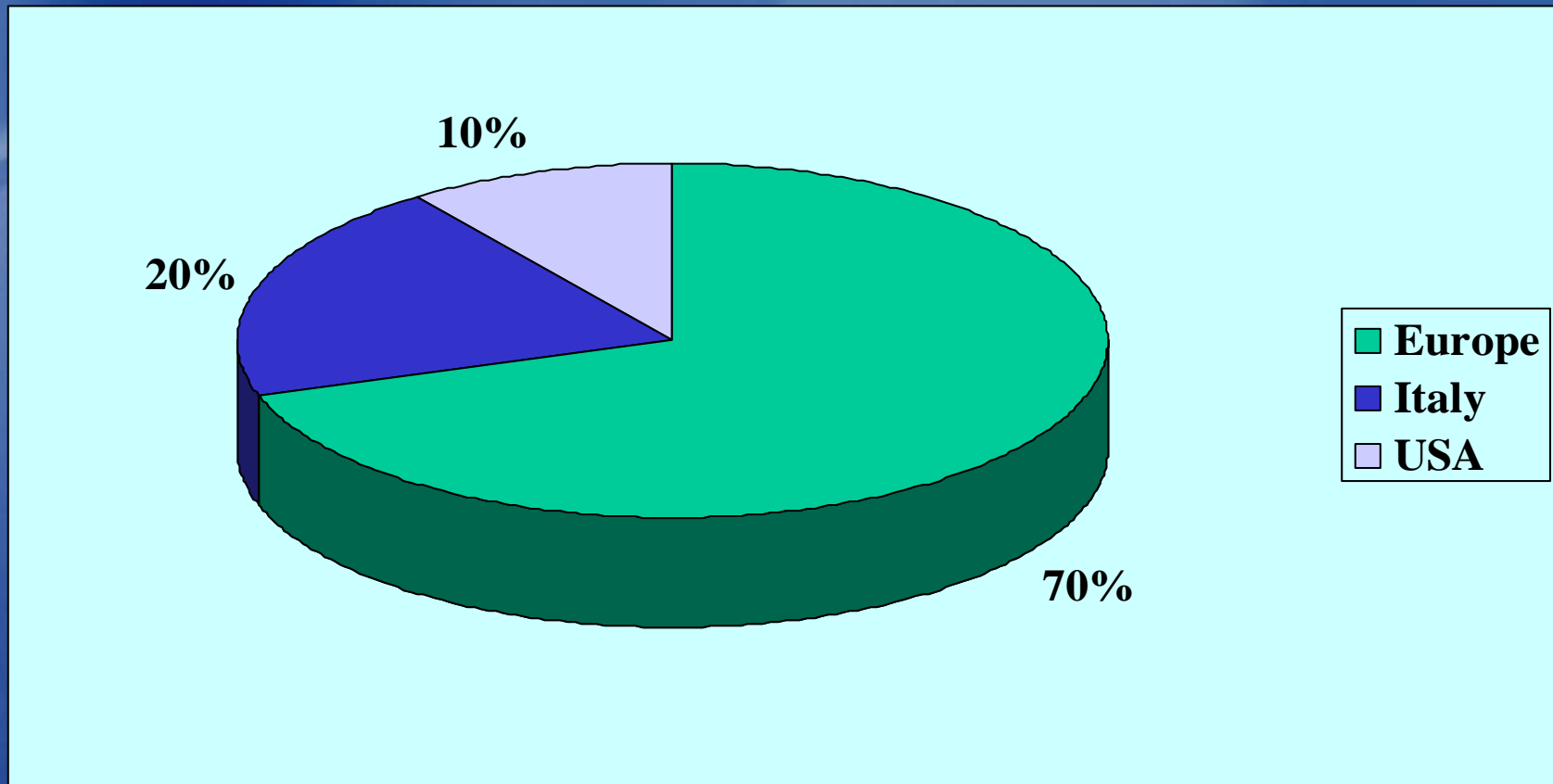


- As the wound elements in polypropylene, the filtering elements in stainless steel have taken an ever-increasing importance in the fields systems with pre-coat filters, particularly in those working in higher temperatures.
- The type of element produced by us is made so as to satisfy fully every particular requirement of filtering of fluids contained in the big conventional and nuclear power stations.
- The dimensions of the elements in stainless steel are the same as for the elements in polypropylene and about $\text{Ø } 2''$, length 60" or 70". Porosity 7-45- 75 microns.

SUPREX PACKAGES



SALES BY MARKET AREA 2007



INTERWAT REFERENCE LIST

- During about 3 decades of activity Idreco Spa and Interwat Srl has supplied several plants using various ion exchange technologies and ion exchange – Precoat materials in the following utilities and other industrial companies:

CUSTOMER:

- STATENS VATTENFALLSVERK - RINGHALS
- O.K.G. AB
- OY ENERKEM
- KERNKRAFTWERK ISAR KK
- KERNKRAFTWERK PHILIPPSBURG
- SIEMENS K.W.U
- PREUSSISCHE ELEKTRIZITATS AG
- E.N.E.L.
- E.N.E.L. Milano
- AEM MILANO
- ASM BRESCIA
- ANSALDO
- SNAMPROGETTI
- FOSTER WHEELER ITALIANA
- ESSO
- ERIDANIA ZUCCHERIFICI NAZIONALI
- SADAM

COUNTRY:

- Sweden
- Sweden
- Finland
- Germany
- Germany
- Germany
- Germany
- Italy
- Italy
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INTERWAT REFERENCE LIST

- P.I.C. Kuwait
- MINISTRY OF ELECTRICITY & WATER Kuwait
- M.E.P.I.C Iraq
- N.I.O.C Iran
- P.P.C. Greece
- HELLENIC ASPROPYRGOS REFINERY Greece
- PETROMIN Saudi Arabia
- GEORGIA POWER CO USA
- AMERICA CRYSTAL USA
- WESTERN SUGAR USA
- AGRANA Austria
- SIIC Egypt
- ENPPI Egypt
- EGYPTIAN ELECTRICITY AUTHORITY Egypt
- MITSUBISHI HEAVY INDUSTRIES – KOBE Japan
- JAPAN GASOLINE CORPORATION Japan
- TIANJIN POWER CORPORATION People's Rep. of China
- HUANENG INTERN. POWER DEVELOP.CORP. People's Rep. of China
- CITY TRADING INC.AND SUNBURST ENERGY
- DEVELOP. INC. CONSORTIUM People's Rep.of China

INTERWAT CUSTOMERS

VATTENFALL



Institut for energiteknikk

LULEKRAFT AB



Kernkraftwerke Isar
Verwaltungs GmbH



L'ENERGIA CHE TI ASCOLTA.



GEORGIA
POWER
A SOUTHERN COMPANY



PHASE
PRODOTTI PER IL RESTAURO



amar
Una compañía Iberdrola



HELLENIC
PETROLIUM



Edipower *Diamo energia all'Italia*

INTERWAT

Thank You!

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