

# PRESENTATION



A great part of our lives depends on Refrigeration, from food conservation, to its processing and transportation, guaranteeing quality up to the final consumer.

In **H.SEABRA**, we have a large team of specialized engineers in industrial refrigeration facilities, capable to develop and supply the best technology for today and for future, all over the world. Our history is guided by the accuracy of an international demanding market has enabled us to develop new solutions and products that add value to the client.

Our engineers are specialists in the design, project and execution of refrigeration facilities. During our career, we have done several projects for **POULTRY AND PORK SLAUGHTERHOUSES WITH LARGE CAPACITY FREEZING TUNNELS (VRT), LARGE WAREHOUSES, FISH AND MEAT PROCESSING CENTRES, COLD ROOMS FOR CHILED AND FROZEN PRODUCTS OF SEVERAL DIMENSIONS**, among others, but always with our mark, and always customized to each client's needs.

Client is the centre of our activity. It's for him that we invest in innovation and develop the best solutions, in every agro-food chain segments, as **Meat, Fish, Logistic, Food Distribution, Ice, Beverages, Chemical/Pharmaceutical, Dairy and Fruit & Vegetables**. We work everyday to protect and conserve client's products trusted to us, guaranteeing the freshness and quality that consumer deserves.

H.Seabra, Comércio de Indústrias Térmicas S.A., was born in 17 April, 1978, within the genesis of the own Seabra Group. It is the company with the longest and oldest history and the one who has the most market notoriety.

At the time it was created, the Government launched a strategy for the creation of a National Cold Network, supporting initiatives, and that propelled its appearance. In Portugal there was a growing need for the modernization of distribution channels, anticipating that evolution, Fonseca and Seabra invested in the creation of this engineering company specialized in Industrial Refrigeration.

The company, keeping a corporate structure typically familiar, has assumed a national leadership position in this market, a position it still holds today, registering in its client portfolio, some of the most important projects being developed.

In 1993, in the conviction that its accumulated know-how was the utmost important thing, initiated a process of internationalization of its activity, pointing to Angola as a priority market target, where today is the market leader in Industrial Refrigeration. Little by little it has expanded its scope of action, working projects in several points of the globe, being currently present, with an internal structure, also in Venezuela and Equatorial Guinea.



**VISION**

Becoming an international benchmark of “knowledge” and “Know How”, turning us into a strategic partner for a long-term relationship with our clients.

**MISSION**

Constantly seek in a consistent and nonconformist manner, the best and most innovative engineering solutions, guaranteeing our clients the creation of added value to their businesses.

**VALUES**

**SERVICE** FOCUS ON THE CLIENT. A FRIEND IN NEED IS A FRIEND INDEED.

**COMMITMENT** WALK THE TALK. THE ROAD TO HELL IS PAVED WITH GOOD INTENTIONS.

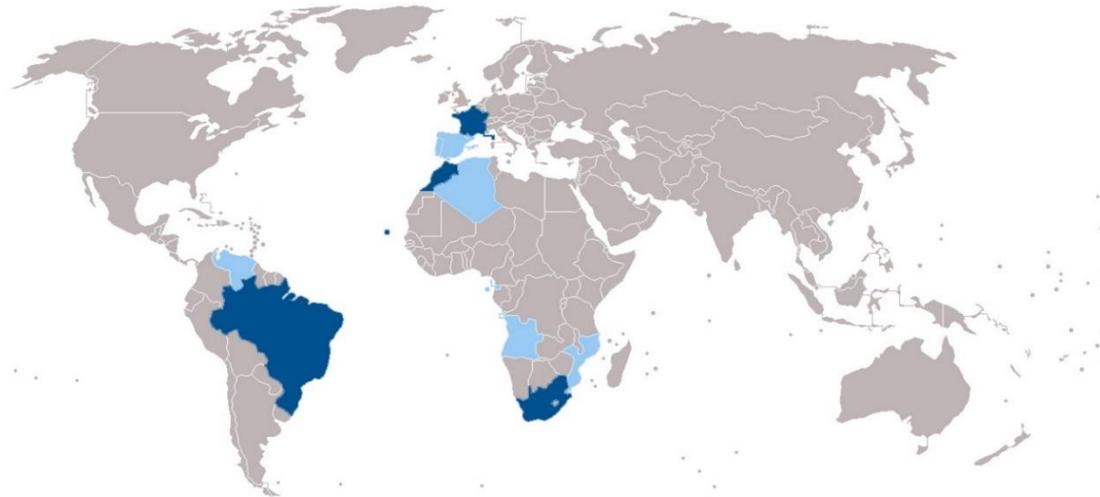
**PROFESSIONALISM** KNOW MORE. ACT BETTER. CURIOSITY DID NOT KILL THE CAT.

**ACCURACY** TELL THE TRUTH NO MATTER WHAT. EVEN WHEN IT'S NOT GOOD FOR US.

**AVAILABILITY** ALWAYS GO THE EXTRA-MILE. WHERE THERE'S A WILL, THERE'S A WAY.

**TEAM SPIRIT** ONE FOR ALL, AND ALL FOR ONE, OF COURSE.

**RESPECT** ALWAYS WALK ON THE BRIGHT SIDE OF LIFE. IT'S GREAT.



**We are present:** ANGOLA, ALGÉRIE, EQUATORIAL GUINEA, MOZAMBIQUE, PORTUGAL, SPAIN and VENEZUELA.

**We did work:** SOUTH AFRICA, BRAZIL, CAPE VERDE, FRANCE, MOROCCO, SAO TOME AND PRINCIPE and TIMOR.

Part of Seabra Group, **H.SEABRA** is market leader in Portugal and Angola, one of the main players in Venezuela, with over **35 YEARS** of existence, H. Seabra brand name is synonymous of quality and recognition in the Industrial Refrigeration sector.

More than an engineering company, **H.SEABRA** works in partnership with his clients. It studies and evaluates the best solutions for each challenge, in each market segment of agro-food industry: Meet, Fish, Logistics, Ice, Food Distribution, Fruits and Vegetables, Chemistry and Pharmaceutical, Dairy and Beverages.

# PRODUCTS

**H.SEABRA**  
INDUSTRIAL REFRIGERATION

H.SEABRA has worked in solutions that guarantee that the products original quality is maintained throughout the entire industrial process and that the operating profit is guaranteed.

For this purpose, we have developed and implemented specific solutions as far as rapid cooling, freezing, conservation and acclimatization of the work chambers with controlled relative humidity.

They are specifically:

- POULTRY, PORK AND BEEF SLAUGHTERHOUSE
- REFRIGERATION CHAMBERS FOR THE CONSERVATION OF ALL TYPES OF MEAT, FROZEN OR CHILLED
- RAPID COOLING TUNNELS FOR BEEF
- RAPID COOLING TUNNELS FOR PORK
- RAPID COOLING TUNNELS FOR POULTRY
- STABILIZING CHAMBERS
- RAPID FREEZING TUNNELS
- AIR-CONDITIONED ROOMS WITH LOW VENTILATION
- MATURATION CHAMBERS
- ARTIFICIAL DRYING CHAMBERS FOR CURED HAM AND DELI PRODUCTS
- ICESTOP - DEHUMIDIFICATION SYSTEMS



Contribute to guarantee a “fresh” final product is our main goal. At **H.SEABRA** we have developed and applied cooling and freezing solutions that permit to maintain the best features of fish products.

Also, at the processing level, we have built important projects guaranteeing the best temperature conditions, relative humidity and hygiene.

Our solutions are specifically:

- REFRIGERATION CHAMBERS FOR THE CONSERVATION OF FISH, FROZEN OR CHILLED
- STATIC FREEZING TUNNELS
- SPIRAL FREEZING TUNNELS
- AUTOMATIC FREEZING TUNNELS
- VRT (Variable Retention Time) FREEZING TUNNELS
- IQF (Individual Quick Freezing) FREEZING TUNNELS
- FREEZING PLATES
- CODFISH DRYING TUNNELS
- BRINE TANKS
- AIR-CONDITIONED ROOMS WITH LOW VENTILATION
- ICE FACTORIES (LAND AND SEA)
- ICESTOP – DEHUMIDIFICATION SYSTEMS



We want to protect our client's most precious good. In the Refrigeration Logistics activity, we deal on a daily basis with products destined for the final consumer, in temperature controlled environments. With our facilities, you can get the lowest operating costs and best safety to do it.

H.SEABRA is a specialist in guaranteeing high accuracy temperature operations, through constructive solutions developed to help create more competitive operations.

They are specifically:

- HIGH- WALL CHAMBERS FOR CHILLED AND FROZEN PRODUCTS
- LARGE AREAS FOR PICKING – CHILLED AND FROZEN PRODUCTS
- DEDICATED REFRIGERATION SOLUTIONS ACCORDING TO A PARTICULAR STOWAGE
- AIR DISTRIBUTION SYSTEMS ACCORDING TO A PARTICULAR STOWAGE
- SPECIAL FIRE-RESISTANT THERMAL INSULATIONS
- AMMONIA REFRIGERATION SYSTEMS
- ELECTRICAL POWER CONSUMPTION MANAGEMENT SYSTEMS
- ENERGY MANAGEMENT SYSTEMS
- SUPERVISION, AUTOMATION AND REMOTE MAINTENANCE SYSTEMS
- ICESTOP - DEHUMIDIFICATION SYSTEMS



Every day, more consumers expect products to reach their homes in excellent conservation conditions. At **H.SEABRA** we have the experience and necessary technology to guarantee just that.

We have developed projects for large world food distribution networks, designed and constructed hypermarkets, supermarkets and large distribution warehouses for all kind of food products.

They are specifically:

- FOOD DISTRIBUTION WAREHOUSES FOR INTERNATIONAL LOGISTIC CHAINS
- CASH & CARRY
- FOOD STORES
- REFRIGERATED SHOWCASES
- INDIRECT REFRIGERATION SYSTEMS
- SUPERVISION, AUTOMATION AND REMOTE MAINTENANCE SYSTEMS
- HYPERMARKETS
- SUPERMARKETS
- ICESTOP - DEHUMIDIFICATION SYSTEMS



Our great refrigeration technique allows us to give ice the exact shape you pretend. We have already installed ice cube factories, scale, bars and we have even build ice walls for cultural events.

At **H.SEABRA** we have the experience and the necessary solutions in order to be able to build any kind of ice factory, at every scale across. More specifically:

- ICE CUBE FACTORIES – 500 TO 50.000 KG/DAY
- ICE SCALE FACTORIES, OF ALL CAPABILITIES
- ICE BAR FACTORIES, OF ALL CAPABILITIES
- SPECIAL ICE FACTORIES FOR VESSELS
- AUTOMATIC, PNEUMATIC OR MECHANICAL SYSTEMS FOR ICE TRANSPORTATION
- REFRIGERATED SILOS FOR ICE STORAGE
- ICE CRUSHERS AND ICE COMPACTORS
- ICE FACTORIES FOR CONCRETE COOLING
- LIQUID ICE PRODUCTION SYSTEMS



For us, quality is always in first place. In the brewery industry, wine or soft drinks, **H.SEABRA** provides a solution to each refrigeration problem.

Many of our clients are some of the biggest industrials in their respective markets, in such high demanding circumstances; we have been developing high quality competitive solutions for the industry.

They are specifically:

- FLUID COOLING PROCESS CHILLERS
- COOLING SYSTEM FOR WINERY VATS
- WINERY ACCLIMATIZATION
- REFRIGERATION CHAMBERS FOR STORAGE OF RAW MATERIALS
- REFRIGERATION CHAMBERS FOR THE STORAGE OF FINAL PRODUCTS



Only with the best refrigeration facilities can we guarantee the precision and temperature stability and relative humidity necessary for these products.

H.SEABRA develops and applies high security solutions and accuracy that allow them to be totally and comfortably dedicated to their business, knowing that the valuable products it works with are always perfectly safe.

Our solutions are specifically:

- REFRIGERATION CHAMBERS FOR THE STORAGE OF CHEMICAL PRODUCTS
- REFRIGERATION CHAMBERS FOR THE STORAGE OF PHARMACEUTICAL PRODUCTS
- CLEAN ROOM TECHNOLOGY
- ULTRA-LOW TEMPERATURE SYSTEMS
- EUTECTIC REFRIGERATION SYSTEMS



In the milk and derivatives industry, refrigeration is of the utmost importance, because they are products of rapid deterioration by nature if not quickly submitted to conservation treatments.

At **H.SEABRA** we know that and we count on the best solutions to never take chances.

In this chapter, we have developed several projects in every crucial stage: since processing, transformation, up to the product conservation.

More specifically:

- DAIRY CONSERVATION CHAMBERS
- IOGURT CONSERVATION CHAMBERS
- COOLING PROCESS CHILLERS
- SPECIAL CHEESE CONSERVATION CHAMBERS
- CHEESE MATURATING AND DRYING CHAMBERS
- DAIRY COOLING SYSTEMS
- AIR CONDITIONED WORK AREAS WITH LOW VENTILATION AND RELATIVE HUMIDITY CONTROL



Fruits and vegetables are live sensitive organisms that should be adequately treated in refrigeration. At H.SEABRA we naturally assume that fundamental concern. All solutions and techniques used by us regularly, and with complete safety, allow for a quick and careful product care.

- REFRIGERATION CHAMBERS FOR ALL TYPE OF FRUIT AND VEGETABLES
- COMPLETE CONTROLLED ATMOSPHERE SYSTEMS WITH TEMPERATURE CONTROL
- RELATIVE HUMIDITY, OXYGEN AND CARBON DIOXIDE
- IQF CONTINUOUS FREEZING TUNNELS
- FORCED AIR CIRCULATION TUNNELS (for packaged products)
- HYDROCOOLING
- HYDROWARMING
- HYDROSTERILISING
- CONTROLLED FRUITS AND VEGETABLES MATURATION
- CITRUS DEGREENING
- REFRIGERATION CONTAINERS WITH ATMOSPHERE, MATURATION AND CONTROLLED RELATIVE HUMIDITY



# MAIN REFERENCES

## DEEP-FROZEN PRODUCTS FACTORY - FRIGOSTO

Construction of new Industrial Unity to Deep-Frozen Products in Caldas da Rainha.



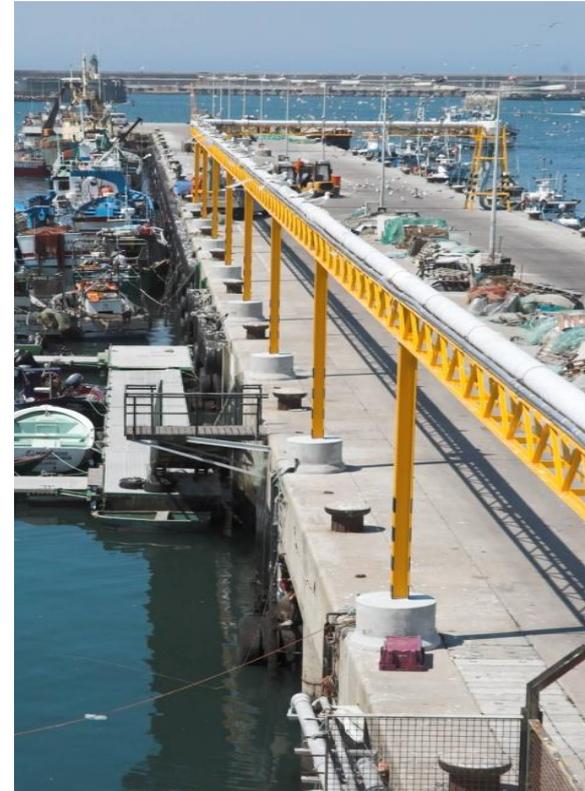
Frozen Products Refrigeration Warehouse and new Industrial Fresh Fish Transformation Unit in Torres Novas for the international Belgian Group Univeg

## FOOD DISTRIBUTION REFRIGERATION WAREHOUSE - UNIVEG



## ICE FACTORY - DOCAPESCA

Ice Factory in Matosinhos with ice scale production and storage capacities of 45 Tons/day and 50 Tons of storage.



## LOGISTIC REFRIGERATION WAREHOUSE - STEF



Logistic Refrigeration Warehouse of frozen and deep-frozen products with a total area of 90.000 m<sup>3</sup>, in Póvoa de Santa Iria.



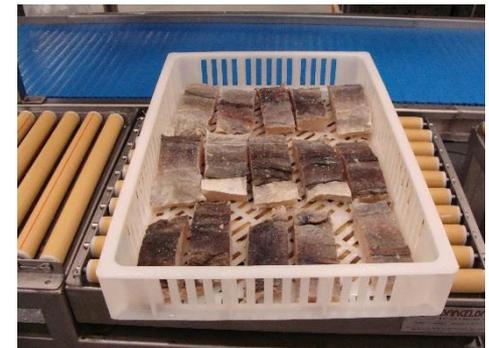
## REFRIGERATION WAREHOUSE – JERÓNIMO MARTINS

Remodeling and Expansion of Refrigeration Warehouse in Azambuja.



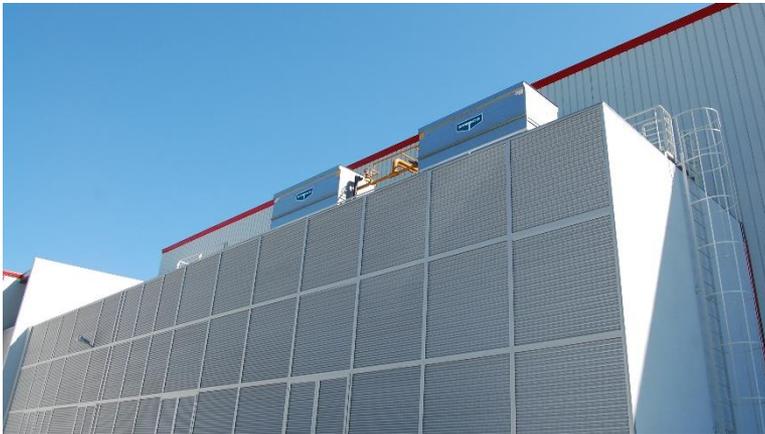
## REFRIGERATION WAREHOUSE FOR DESALTED CODFISH - BRASMAR

Refrigeration and conservation warehouse for desalted codfish in Trofa, with a total freezing capacity of 36 Ton/day.



## FOOD DISTRIBUTION LOGISTIC WAREHOUSES – DIA PORTUGAL

Construction of three logistic Warehouses to Dia/Minipreço Group in Torres Novas, Valongo and Alverca, the latter of wich, using a technical solution with CO2, ammoniac and glycol water.





## FROZEN PRODUCTS LOGISTIC WAREHOUSE - VALINHO

One of the largest and most modern warehouses for frozen products conservation in Angola, located in Cacucaco.

## BEVERAGE PROCESSING FACTORY - WAYFIELD

Construction of the new factory of soft drinks in Viana - Angola in the specialties of Industrial Refrigeration and Air Conditioning.



# SLAUGHTERHOUSE AND REFRIGERATION WAREHOUSE – GRUPO SOUTO

Construction of one of the largest slaughterhouse in Latin America and refrigeration warehouse to Grupo Souto.



## INDUSTRIAL UNIT FOR FRUIT PREPARATION - FRULACT

Construction of industrial unit destined for the food industry, in Larache, Morocco. Supply and assembly of a fluidized catalytic freezing tunnel with a 5 Ton/hour capacity, using ammonia as a refrigerant.



MOZAMBIQUE



## FISH PROCESSING CENTER – TEIXEIRA DUARTE

Construction of the fish processing center in Porto da Beira, with a total fish and seafood freezing capacity of 70 Tons/day and a ice scale production of 45 Tons/day.

**PORTUGAL**

**ASF PORTUGAL**

Construction of three refrigeration chambers for sweet potato to its agricultural project at Azenha do Mar.

**LURDES NARCISO**

Construction of Food Distribution Refrigeration Warehouse in S. Miguel, Azores.

**REGIONAL DEPARTMENT OF FISHERIES**

Construction of two ice factories with a 10 Ton/day capacity and 20 Ton warehouse capacity in S. Miguel Island and another in the Pico Island with a 3 Ton/day production and 5 Ton storage.

**FRUDOURO**

Construction of two refrigeration chambers for normal atmosphere fruit conservation in Lamego, with a total storage capacity of about 250 Ton., destined to support its own production.

**FRIGOSTO**

Deep-Frozen Products Factory with a spiral freezing tunnel for freezing hamburguers with a capacity of 900 Kg/hour, located in Caldas da Rainha.

**GIALMAR**

Construction of Manufacturing Unit Freezing and Conservation of Fish in Figueira da Foz with a freezing capacity of 8 Ton/hour and with a frozen storage capacity of 1,200 Ton.

**LOTAÇOR**

Construction of ice factory with a daily ice production capacity of 40 Tons and a storage capacity of 50 Tons in orbital type automatic silos.

**GESTIRETALHO**

Construction of freezing warehouse dedicated to Pharmaceutical Industry logistics.

**ANGOLA**

**ALIMENTA ANGOLA**

Construction of three Cash & Carry Alimenta Angola.

**MINADERP (MINISTRY OF AGRICULTURE, RURAL DEVELOPMENT AND FISHERIES)**

Traditional Fishing Support Center with a fish freezing tunnel with a capacity to process 5 Ton/ day.

**WAYFIELD**

- Agricultural unit which includes seven refrigeration chambers, five of which are equipped with the best technology for the conservation of potatoes and onions, for a total storage capacity of approximately 2.000 Ton.
- Construction of new detergent factory in Viana, Angola.

**ALVAFISHING**

Industrial unit of large fish capture and transformation, fish freezing tunnel with 10 Ton/day capacity.

**CARNES VALINHO**

- Industrial unit of meat processing with 15 Ton/day freezing tunnel and two dryers filled with total capacity of 15 Ton.
- Expansion of frozen products logistic warehouse in Cacuaco, Angola

**SOCIFRIO**

Remodelling of food distribution refrigeration warehouse in Luanda.

**NBC MEDICAL**

Construction of refrigeration warehouse to NBC Medical in Luanda.

**COMINDER**

Construction of two industrial units of fish processing center in Benguela.

**PROTINAL**

- Construction of factory in Valencia - Venezuela with 6500m<sup>2</sup>, two line productions (ham products and sausages) with several air conditioned rooms and refrigeration chambers equipped with automatic shelving.
- Construction of automatic spiral freezing tunnel with a 3 ton/hour chicken nuggets.

**GRUPO MERINO**

Poultry Freezing Unity including an automatic freezing tunnel capable of freezing 16Ton/h of poultry and store capacity of 173 Ton.

**HEINZ**

Conservation Warehouse for Frozen Products in Valencia - Venezuela.

**PUROLOMO**

Poultry Slaughterhouse with an automatic freezing tunnel with a poultry freezing capacity of 30 Tons/hour and a storage capacity of 300 Tons.

**GRUPO SOUTO**

Refurbishment of Poultry Freezing Warehouse and also the construction of a new Industrial Drying Unity for deli products, both located in Maracay.

**PORTUGAL**

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