





**BRAZIL**



**IRAN**



**AUSTRALIA**



**IRAQ**

**AUSTRALIA**

**UK**



**UAE**



**IRAQ**



**SYRIA**



**IRAQ**

**INDONESIA**

**LINDE GERMANY**



**LINDE GERMANY**



**SOUTH AMERICA**



**USA**



**TURBINE INSPECTION**



**SYRIA  
ANGOLA**







**AFRICA-ETHIOPIA**



**CANADA**



**SPAIN**



**MONACO**



**IRAQ**



**INDONESIA&BRAZIL**



**SUDAN**



**ST KITTS**



**UK**



**MIDDLE EAST**



**SUDAN**



**IRAN**



**CURACAO**



**MOROCCO**



**MOROCCO**



**UK GAS WITH LINDE**



**UK&MAURITIUS**



**ALGERIA**





**MIDDLE EAST**



**SOMALIA**



**EGYPT**



**UK GAS WITH LINDE**



**ZIMBABWE**



**NIGERIA**





**GUAM**



**South america**

**NIGERIA**



**South america**



**U.S.A-rexarc.com-president**



**BRAZIL**



**SAUDI ARABIA**



**U.K**



**IRAQ**



**IRAN**



**Cocacola worldwide**



**MOROCCO**



**AFRICA**



**brazil**

# About UNIVERSAL BOSCHI

Universal Boschi is a well established leading Manufacturer and exporter of Oxygen, Nitrogen, Argon and Acetylene plants and our company has manufactured and exported over 300 Air separation plants since 1985. Recently we have exported our Air Separation Plants to over 40 countries including Saudi Arabia, Indonesia, UAE, Dubai, Sudan, Iraq, Syria, Jordan, Maldives, Saipan, Seychelles, Kazakhstan, Malaysia, Taiwan, Nigeria, Ghana, Congo, South Africa, Benin, Europe, Libya, Columbia, Brazil and many others.

in last 5 years we have exported 150 complete oxygen nitrogen plants all over world.



UNIVERSAL FACTORY NEAR INDIRA  
GANDHI INTERNATIONAL AIRPORT NEW  
DELHI -**SOLID INFRASTRUCTURE**-

We are a CE certified company with products certified to meet international specifications and sold globally under the same world renowned 'Boschi' Italy brand name. Our Company was established in 1985 by technocrat Mr. Sanjiv Agarwal who is a qualified Chemical Engineer & specialised professional in the design & manufacture of oxygen & nitrogen production plants & was trained under Dr. Boschi of Italy. We commenced manufacturing of nitrogen & oxygen production plant at our factory at New Delhi in 1985 with air separation columns and critical components from the factory of ING. L & A BOSCHI Genova, Italy. we have a team of engineers highly trained for designing, quality control training and

CONTAINER LOADING FACILITY-INSIDE  
UNIVERSAL FACTORY-ENSURES SAFE -FAST



The designs of our plants were based on the process cycle of Linde& Claude which had been started by Dr. Boschi of Italy with their company ING. L&A. Boschi of Italy in 1930 and perfected with over 70 years of experience.



Our complete technology, designs and manufacturing skills have been acquired from ING L&A BOSCHI, ITALY and perfected over the last 27 years. We are manufacturing with the brand name "Boschi" as our quality meets international specification and standards. Our quality has been passed by most of the agencies including SGS (society General De Surveillance) for export.



Container stuffing facility inside the factory as our company has 100% eou status-only one in India.

Our OXYGEN and NITROGEN plants use highly efficient Turbine expander and rotary air compressor from Atlas Copco Belgium, which make the plant work on low pressure cycle resulting in very high efficiency and low power consumption. The air separation column of "Boschi" design has special trays to extract maximum Oxygen from atmospheric air to give maximum yield.

Our very close association & interaction with Dr. Boschi& the Italian company ING L & A BOSCHI for over 15 years whose plants are working all over the world in European countries like Italy, Germany France, UK & Australia, and others gave us required exposure and experience in the industry. These plants, based on the Boschi technology, were also exported to Turkey, Greece, Iran, Sharjah, Abudhabi, Qatar, Mauritius, Zambia, Nigeria, Dubai, Syria, South Africa, Egypt, Saudia Arabia, Peru, Qatar, Indonesia, Kuwait, Iraq and many others.



DR. BOSCHI OF ITALY AT A PRESS CONFERENCE AT  
NEW DELHI -ANNOUNCED UNIVERSAL AS A  
BOSCHI ITALY BRAND OXYGEN PLANT  
MANUFACTURER WITH DRWAINGS AND DESIGNS  
OF BOSCI COMPANY ITALY

The design of the Oxygen/Nitrogen air separation Plants is based on the Liquification of Air based on low pressure cycle. The air separation column has state-of-the-art BOSCHI distillation trays, multipass exchangers & condensers to get a high yield of oxygen by separation of liquid air which results in very low power consumption. Boschi columns



manufactured by us have been known for its efficiency & long life.

Our vast experience in the field of manufacture of Oxygen/ Nitrogen production equipment has finally resulted into trouble free operation and virtually maintenance free working of our plants. Our plants can also be equipped with vacuum insulated Liquid Oxygen Pump. We have supplied and exported over 300 oxygen production plant and equipment all over World and Italy which are working successfully and also exported to international market. These plants are being used either for filling oxygen in cylinders or selling in the market or for captive consumption.



## **CE DELEGATION QUALITY AUDIT AT UNIVERSAL FACTORY-NEW DELHI**

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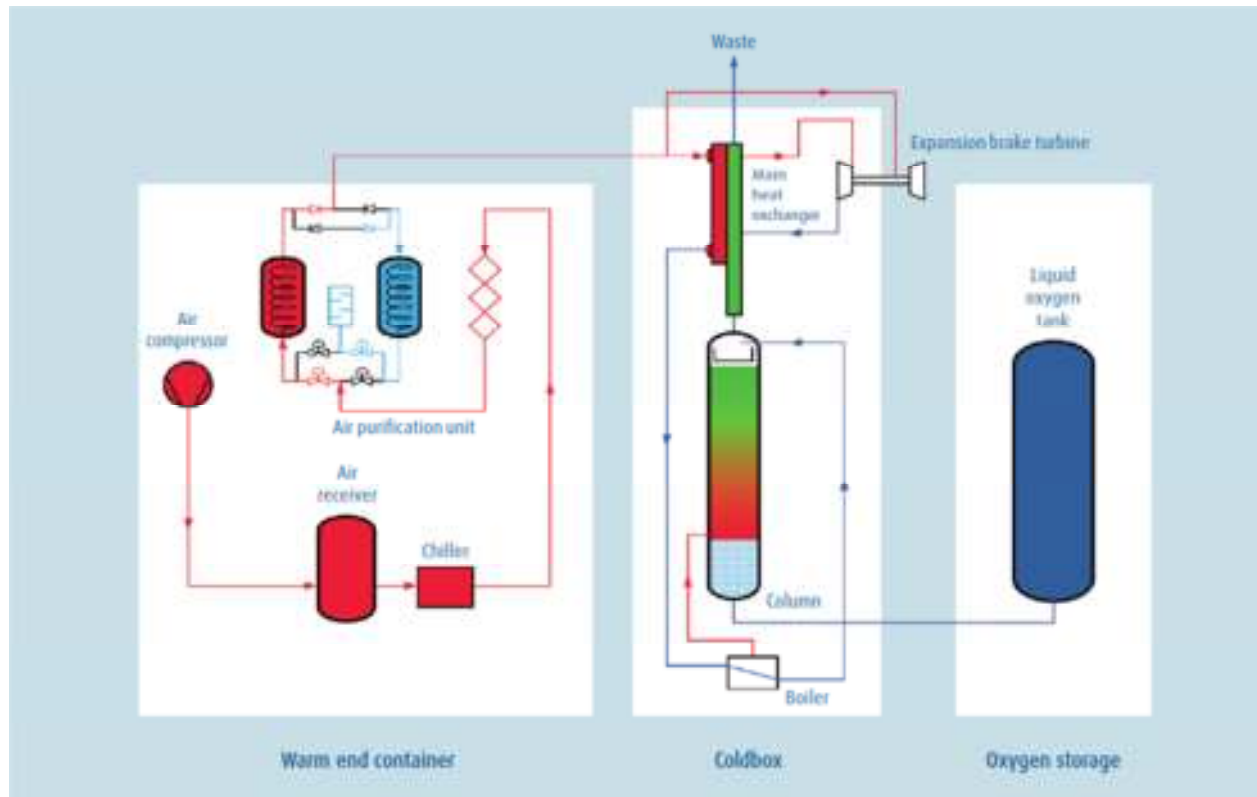
**10 BIG ADVANTAGES OF BUYING FROM UNIVERSAL FACTORY NEW DELHI AGAINST ANY OTHER LOCAL INDIAN MANUFACTURER.**

- ✓ THE BUYER BUYS FROM WELL ESTABLISHED COMPANY.
- ✓ THE BUYER HAS NO RISK OF HIS MONEY.
- ✓ THE BUYER IS VERY SAFE AS QUALITY IS GUARANTEED .
- ✓ THE BUYER GETS COMPLETE SOLUTION OF OXYGEN NITROGEN ARGON AND ACETYLENE PRODUCTION UNDER ONE ROOF.
- ✓ THE BUYER GETS ADVANTAGE OF ORIGINAL EUROPEAN ITALIAN DESIGNED OXYGEN NITROGEN AND ACETYLENE PLANT -NO COPIES.
- ✓ THE BUYER GETS THE PLANT AND MACHINERY STUFFED IN CONTAINER INSIDE UNIVERSAL FACTORY AND GOES STRAIGHT TO THE SHIP FOR SAILING WITHOUT GETTING DAMAGED IN INDIAN PORTS AND DELAY IN CUSTOMS EXAMINATION.
- ✓ THE BUYER GETS WORLD CLASS OXYGEN NITROGEN ACETYLENE PLANTS WITH CE -EUROPEAN QUALITY.
- ✓ THE BUYER GETS ALL THE OPTIONS OF BUYING EVEN THE AMERICAN-EUROPEAN TURBO LOW PRESSURE OXYGEN PLANTS AT VERY COMPETITIVE PRICING.
- ✓ THE BUYER HAS ZERO RISK OF FAILURE OF HIS PLANTS OR PROJECTS DUE TO WELL ESTABLISHED COMPANY FOR OVER 27 YEARS.ZERO RISK OF EXPLOSION AS ALL PLANTS ARE CE COMPLIANCE AS PER GUIDELINES OF
- ✓ THE BUYER GETS HIGH RETURN ON HIS INVESTMENTS.AS UNIVERSAL ENSURES THE FASTEST DELIVERY DUE TO HISHEST EFFICIENCY IN PRODUCTION LEVELS.



AIR LIQUIDE FRANCE ENGINEERS AT OUR NEW DELHI OFFICE





## PROCESS FLOW FOR LOW PRESSURE TECHNOLOGY

### Construction Materials for Air Separation Plants (LOW PRESSURE ROTARY AIR COMPRESSOR OXYGEN NITROGEN PLANTS):

The materials used in an air separation plant are exposed to wide range of temperatures, pressures, and purities during operation. Materials are selected that are compatible with the expected condition including normal operation, startup, shutdown, and process upsets.

For the oxygen system to operate safely, all parts of the system should be reviewed for compatibility with oxygen under all conditions they will encounter. The system is designed to prevent oxygen combustion by:

- Selecting the optimum cryogenic grade material.

- Operating within the designed pressure, temperature, and flow limits; and
- Obtaining proper cleanliness.

SEE EIGA DOCUMENT-EUROPEAN INDUSTRIAL GAS ASSOCIATION

**MAIN PARTS OF  
LOW PRESSRE  
OXYGEN PLANTS**

**SNAP  
SHOT**

1. ROTARY AIR COMPRESSOR
2. PRECOOLING UNIT
3. PURIFYING UNIT
4. TURBINE EXPANDER
5. COLUMN



**AIR-  
COMPRESSOR  
LOW-PRESSURE**



**PRECOOLING  
UNIT**



**PURIFICATION  
UNIT-LOW  
POWER**



**4. TURBO EXPANDER**



**TURBINE VANES- LONG LIFE-FASTEST  
COOLING**



### UBT 200 SIDE VIEW

- SPECIFIC POWER AS LOW AS 0.69 KWH PERCUBIC METER OF OXYGEN.
- MOST SUCCESSFUL MODEL IN THE WHOLE WORLD GUARANTEED



### UBT100 COLUMN FOR OXYGEN GAS CYLINDER FILLING-

- SPECIFIC POWER AS LOW AS 0.74 KWH PERCUBIC METER OF OXYGEN.
- ROTARY AIR COMPRESSOR
- VERY EASY TO OPERATE
- NO WATER REQUIRED TO MAKE OXYGEN
- NITROGEN 99.99% BY PRODUCT



### UBT -500 COLUMN-COLDBOX WITH PURIFICATION UNIT

- SPECIFIC POWER AS LOW AS 0.64 KWH PERCUBIC METER OF OXYGEN.



★★★★★★★★ Highest 7 rating in USA -EUROPE

### UBT /UBTL MODEL COLD BOX

### AIR SEPARATION COLUMN



### UBT-1000

- SPECIFIC POWER AS LOW AS 0.60 KWH PERCUBIC METER OF OXYGEN.
- NITROGEN GAS 1000NM3/HR AS SECOND PRODUCT 99.999%.
- OXYGEN GAS PURITY IS 99.7%





**SAFE PRACTICES GUIDE FOR CRYOGENIC AIR SEPARATION PLANTS IGC Document 147/08/E**

**OXYGEN CYLINDER FILLING SYSTEMS**





**INTRODUCING -UBP SERIES IS A HYBRID TECHNOLOGY COMBINING LOW PRESSURE ROTARY AIR COMPRESSORE TECHNOLOGY WITH HIGH PRESSURE .**

**OUTPUT**

**OXYGEN GAS AND LIQUID OXYGEN /LIQUID NITROGEN**

**CAPACITIES FROM 50M3/HR - 400M3/HR**



## ***what is ce mark?***

*1.if you go under pressure directives the ce certified factory with the plant*

*MEANS THAT ALL THE PLANTS AND MACHINERY*

*HAVE*

## **GLOBAL CONFIRMITY ASSESMENT PARA 2 ARTICLE 10,97/23/EC**

**SEE THE CE CERTIFICATE ATTACHED.**

**The CE mark a quality-mark.** First, it refers to the safety & to the quality of a product. Second, most quality markings are voluntary opposite to the CE marking, which is mandatory for the products it applies to. CE indicates conformity with mandatory European safety requirements. European conformity is certified by following clear and understandable procedures, the so-called 'conformity assessment procedures'.

### **Why CE marking?**

The European CE certification procedure has been mainly set up to:

1. Harmonize all varying national regulations for consumer and industrial products in European Member States, so that the Single Market is encouraged;
2. Bring about cost savings for producers;
3. Enhance the safety of products;
4. Supply public bodies with a uniform procedure that can be checked.

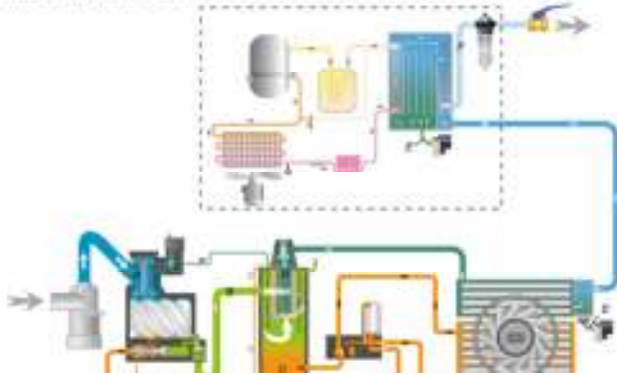
Formerly, product requirements and test procedures were set by the Member States of the EU. This meant that, for example, companies that wanted to sell their products on the European market sometimes had to deal with more than ten different technical requirements or procedures for just one product. The existence of all the different national legislation was contrary to the aim of the European Union in realizing one Single Market, in which there would be a free circulation of goods (as well as a free circulation of persons, services and capital).

### **CE MARK IS A STEP TOWARDS SAFETY**

**LOOK AHEAD –WHEN THERE IS NO SAFETY PROCEDURES OR STANDARDS FOLLOWED BY B AND C CLASS MANUFACTURER**



FIXED SPEED: GA\* & GA



- A Water air
- B Air/Oxygen
- C Air
- D Environmental air
- E Compressed
- F Environmental air

ROTARY TECHNOLOGY-  
ENERGY SAVING+ZERO  
REPAIRS

## COMPARISON

# UNIVERSAL BOSCHI FACTORY-NEW DELHI

IN TECHNICAL COLLABORATION WITH DR. BOSCHI ITALY

### introduction



MAIN FACTORY-DELHI



UBT TURBO OXYGEN PLANT INSIDE FACTORY





# PLEASE VISIT US AT NEW DELHI UNIVERSAL BOSCHI FACTORY

FOR ALL YOUR REQUIREMENT OF OXYGEN NITROGEN AND ACETYLENE  
PLANTS OF BEST QUALITY WORKMANSHIP AND COMPETITIVE PRICING AND  
JOIN THE HAPPY FAMILY OF UNIVERSAL BOSCHI PLANTS -WORLDWIDE.

THANK

YOU