

AMMONIA: THE SUPERIOR OPTION

Ammonia is the best substance to use for cooling and refrigeration since it has the following qualities:

- Ammonia is a well-known and recognised refrigerant that has been used safely in refrigeration for more than 100 years.
- Like other natural refrigerants, it poses no damage to either the ozone layer or the earth's climate
- Better efficiency
- Better heat transfer coefficient
- Greater availability at a Lower cost
- Non-miscibility with lubricating oil
- Less energy for pumping
- Suitability for all temperatures, from Low -50 °C to High +70°C
- Ideal for both reciprocating and screw compressors
- Flexibility when plant and extensions and modifications are needed
- Suitable for all refrigeration capacities

AMMONIA AS A REFRIGERANT: FACTS VS MISCONCEPTIONS

Actual Facts	Misconceptions
<ul style="list-style-type: none"> - Ammonia has a very pungent order and even small leaks as low as 5PPM can be detectible, serving as an early warning. - Lab trials have proved that continuous exposure for levels up to and exceeding 24PPM even for 10-15 years has no adverse effects on human beings. 	Ammonia is Toxic
<ul style="list-style-type: none"> - Ammonia is extremely hard to ignite, even up to 650°C. - It is classified as a B2L, which is less flammable as compared to many other hydrocarbons used in everyday life. - Due to high affinity of ammonia for atmospheric humidity, it is hardly flammable. 	Ammonia is Flammable
<ul style="list-style-type: none"> - Ammonia air cooled condensers are available and even hybrid condensers are becoming popular. 	Ammonia cannot be used for air cooled applications
<ul style="list-style-type: none"> - Low charge factory made packaged refrigeration systems of less than 0.3kg of ammonia per ton are available. 	Ammonia Systems require much more refrigerant as compared to other refrigerant systems
<ul style="list-style-type: none"> - Ammonia compressors with 7kW capacity have been developed for small capacity package units. - Semi as well as fully hermetic compressors now developed - Direct expansion systems with miscible oils using electronic expansion valves are available. 	Unavailability of smaller capacity and direct expansion Ammonia Systems.
<ul style="list-style-type: none"> - Increased use of natural refrigerants and due to its excellent energy saving properties, many countries now use ammonia with secondary fluids like water, brines and CO2. Heathrow Terminal 5 & Singapore Airport are such examples. 	Ammonia cannot be used for Air Conditioning systems
<ul style="list-style-type: none"> - Fully automatic Ammonia refrigeration plants being used for the last 30 years, some even remote controlled from central control panel. 	No automation in Ammonia Plants
<ul style="list-style-type: none"> - This is a myth. Ammonia is a natural refrigerant whereas man made refrigerants are on their way out in most developed countries. 	Ammonia is going to be banned

BAMCO

**BOMBAY AMMONIA &
CHEMICAL COMPANY**



ABOUT BAMCO

Bombay Ammonia & Chemical company is a major producer of AMMONIA SOLUTION & one of the largest refiller, bulk trader & Transporter of ANHYDROUS AMMONIA in Western India.

Formed in 1982 by Mr. Yograj Arora, an expert with over six decades of industry experience, Bombay Ammonia's products are today supplied all over Western India and parts of Southern India.

PHYSICAL PROPERTIES OF AMMONIA

Boiling Point	-33.4°C at 1.013 Bar
Ignition Temperature	650°C
Critical Temperature	134.4°C
Explosion Concentration	16% to 28% by Volume
Detection Threshold	5 ppm
Tolerance Limit	500- 1000 ppm

PLANT LOCATIONS



Navi Mumbai
MIDC Rabale
Chemical zone



Telangana
IDA Pashamaylaram
Sangareddy,
Telangana

HOW WE CAN WORK TOGETHER

a) **ANHYDROUS AMMONIA:** Can be supplied in 5/50/60/400Kgs cylinders & in Road Tankers of 13.5/15/19/21 Mt Road Tankers.

b) **AMMONIA SOLUTION:** Manufactured in Commercial water or Demineralised water.
Packing: Drums, Jerrycans, IBS's & Road Tankers.

CONTACT US!

305A , Kshitij , Opp Andheri Sports Complex,
Veera Desai Road, Andheri (W),
Mumbai 400058,
India

Tel : +91 22 26779617 / 18 / 19 / 20 / 21

Fax : +91 22 26779622

Mobile: +91 9920722885/

+91 98200 61823

Email: sales1@bomammonia.com
bomammonia@gmail.com

**A PREFERRED SUPPLIER & REFILLER
OF ANHYDROUS
AMMONIA(COMMERCIAL &
REFRIGERATION GRADE) &
MANUFACTURER OF AMMONIA
SOLUTION**

**COVERING MAHARASHTRA, GUJARAT,
GOA, ANDHRA & TELANGANA**