



# BS & GP Associates



Air Cooling Unit | Plate Heat Exchanger

Piston Compressors | Liquid Overfeed System

Heat Recovery Wheel | Valves & Controllers

PUF Panel | Pipe Line Insulation | Door & Window

**OUR INNOVATION AND EXCELLENCE  
TAKING YOU FORWARD**



## Industrial Air Cooler (Alfa Laval India Ltd.)

The Help man TYR series is a wide flexible range of heavy-duty industrial air coolers for both cooling and freezing applications in medium to large cold rooms. Suitable for a wide range of applications with a special focus on meat storage, agriculture with a special focus on meat storage, agriculture produce and packed products.

All TYR models have been highly standardized in construction and dimensions, while maintaining flexibility in fin spacings coil construction and circuiting design.

Evaporating temp.	+5 to -40°C
Refrigerants	Ammonia (R-717), all H (C) FC, brine, CO <sub>2</sub>
Capacities (SC <sub>2</sub> )	5 up to 116 KW*
Air Volume	4,000 up to 68,000 m <sup>3</sup> /h
Tube	Standard Steel

## GEA Grasso V Series

- Unique steel welded compressor housing
- No water cooling required
- Extended and flexible maintenance intervals
- Maintenance monitor for indication of upcoming service intervals
- Heavy duty axial roller bearing
- Counter pressure independent overflow valve
- Capacity control steps per cylinder
- Suitable for speed control
- Peek technology for high efficiency and long valve life time
- Low noise level
- Lowest total cost of ownership (TCO)
- Refrigerant: NH<sub>3</sub>



## PUF Panel System

Panel System comprises of pre-fabricated sandwich panels with CFC free polyurethane foam at a density of 40+2kg/m<sup>3</sup> as core and with plain ribbed sheeting made out of pre-painted galvanized/galvalume Steel as facing on both sides.

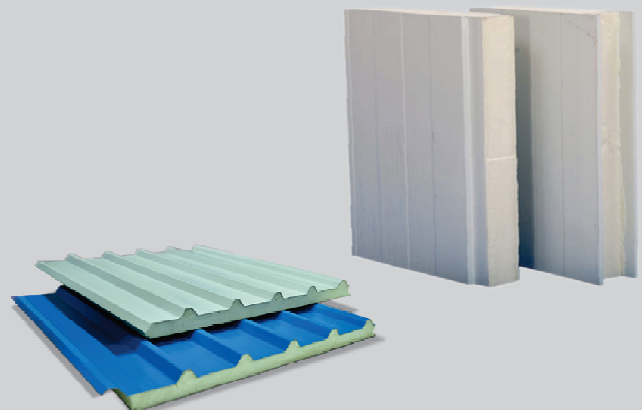
### Technical Specifications of PUF Panel

Density	: 40 kg/m <sup>3</sup> (-2 & +2)	Temperature Range	: (-) 20 C to (+) 110 C,
Compressive Strength	: 1.851 kgf/cm <sup>2</sup>		depends upon thickness
PSI / 2KGS / cum	: 28.5	Fire Property	: Self Extinguishing
Tensile Strength	: 3.4 kgf/cm <sup>2</sup>	Thermal Conductivity	: 0.0214 W/ m-k
Adhesion Strength	: 1.81 kgf/cm <sup>2</sup>		fire retardant
Water Absorption	: 0.2%	Water Vapors Permeability:	0.11 gm / Hr / Sq.m

## CO<sub>2</sub> System (Energy Recovery Wheel) Desiccant Rotors Int.

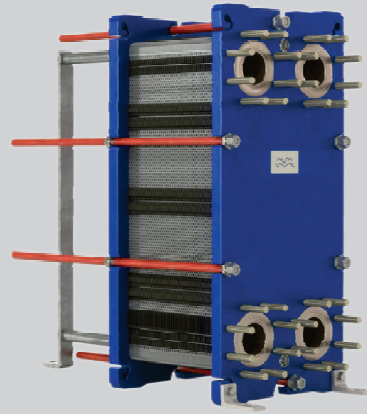
Advantages with DRI TFA/ ERVi

- Lower energy costs by reduction in fresh air ventilation loads by approx 80%.
- Reduced CO<sub>2</sub> levels in cold storage.
- Proper ventilation all-through the storage area without raising energy costs.
- Elimination of bad storage smell. Enhanced product quality and shelf life.
- Meet NHB ventilation requirements.



## Plate Heat Exchanger (Condenser) Alfa Laval India Ltd.

We supply premium Plate Heat Exchanger to our clients that can be customized as per the specification of the client. Easy to modify, inspect and clean, our semi-welded Plate Heat Exchanger handle most refrigerants on the welded side and are particularly suitable for ammonia duties. The flexible and modular design of Plate Heat Exchanger copes with fatigue stresses and ice formation. Thus, our Plate Heat Exchanger are widely preferred in the market because of their cutting edge performance.



## Ammonia Recirculation System

We offer Liquid Overfeed System in different sizes as per the requirement in Ammonia Plant. Liquid Overfeed System (re-circulation system) are those in which excess liquid is forced, mechanically or by gas pressure, through organized-flow evaporators, separated from the vapor, and returned to the evaporators. This ensures no oil in the evaporators and no liquid slugs in the compressor leading to high saving in power and maintenance. We present carefully designed Liquid Overfeed System in domestic as well as international markets. Positioned as one of the leading Liquid Overfeed System Suppliers, we offer them at reasonable prices by us.

## PLC VFD Panel and MCCV Panel

### APPLICATION OF VFD/PLC SYSTEM

- Indication of CO<sub>2</sub> Level.
- Indicate of Ammonia/Ethylene level.
- Temperature controller.
- Alarm system on any fault related to temperature / temperature Humidity or gas leakage.
- Alarm system to controller compressor, lighting, Fan or other Instrument.
- Display on screen of PLC, or on your Computer/ Laptop/Mobile by the help of data logger and internet connection.



## Door & Window

### 1. Single leaf Hatch-Hinged and Sliding Door

Face Mounted swing type mechanism for positive temperature up to 0 degrees and -40 degrees.

Door thickness : 80/120/160 mm, 0.5 mm PPGL on both sides.

PUF density : 40kg/m<sup>3</sup> (+/-2)

### 2. Window

Cassette type mechanism for positive temperature up to 0 degrees.

Window thickness : 80/120 mm, 0.5 mm PPGL on both sides.

PUF density : 40kg/m<sup>3</sup> (+/-2)





## Pipe Line Insulation

**THE FLEXIBLE THERMAL INSULATION, ENGINEERED TO PREVENT CONDENSATION & ENERGY LOSSES**

- Class 0 Fire Performance.
- Reliable condensation control.
- Reduces energy losses & long term energy saving.
- High water vapor diffusion resistance, 7,000
- Completely closed cell structure
- Low maintenance and repair costs.
- Minimum energy loss though low thermal conductivity
- Faster installation with sheets and tubes.

## Industrial Ammonia Valves Fitting Level Controller & Solenoid Valves (Castle)

Working Temperature : -46/+150°C

### Pressure range

DN-15 to DN-40 : 25 bar (362 psig)

DN-50 to DN-200 : 40 bar (580 psig)

**Solenoid Valves, Strainers, Liquid Level Controller  
Check Valves, Stop Needle Valve, Stainer Valve  
Regulating Valves, Shut off Valve**



## Ammonia Pressure Vessel (H.P & L.P)

We supply best quality Ammonia Pressure Vessel. The Ammonia Pressure Vessel is manufactured in line with the industry standards. Ammonia Pressure Vessels that we offer are made of tough materials resistant to chemical attack and temperature extremities. The specification and technical details of our Ammonia Pressure Vessel are given below :

### Receiver

Receivers are available in 26 standard models with an internal gross volume of 4.4 to 329.1 cubic feet and a pump down capacity of 130 to 9740 pounds based on 80% of internal volume with liquid refrigerant at 90deg F. Ammonia of fluridated receivers are made from carbon steel and carbon steel dished ends. Shells upto 300 mm (12") are made from seamless or welded pipes and above 300 mm, they are made from rolled plates.

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ARMACELL INDIA PVT. LTD  
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SYNERGY THRISLINGTON  
DANDEKAR (HVACR) SYSTEM  
SAI ENTERPRISES