

Rental of Air-Con / Dehumidification / Ventilation Equipment

Cooling

We can provide right industrial cooling solutions during plant shutdowns, routine maintenance or any emergency. Our equipment is designed to meet the toughest requirement. It includes supply of condensing unit, chiller unit, rooftop units, blowers, flexible ducts, cables, panels comprising.

Our package can be designed in the range of 50T to 3000T. Cooling can be achieved in the range of 18°C to 32°C. Desired Relative Humidity can be in the range 55 to 65

Chillers are used for higher capacities and range from 80 Ton – 400 Ton (single unit) and the numbers can be scaled up as per requirement.

Our cooling engineers will assess your site and required temperatures, then recommend the best type and size of chiller for your needs.

Whichever type you choose, all our chillers are:

- Designed to work in challenging environments
- Easy to operate with flexible controls and settings
- Environmentally friendly, using non-CFC refrigerants



Dehumidification

Dehumidification is the process of removing moisture from air in enclosed spaces to reduce its humidity, while depressing the dew point significantly below the surface temperature. Thus, water will not condense on surfaces or otherwise cause adverse effects during surface preparation and coating applications.

There is no need to wait when ambient conditions are out of specification because the environment inside the work area is controlled. Productive work can begin first thing in the morning, especially in the spring and fall when dew normally forms. Dehumidifier can be used for Heating and cooling operations.

For Heating, temperature can be increased up to 35°C and Relative Humidity can be between 40 to 70.

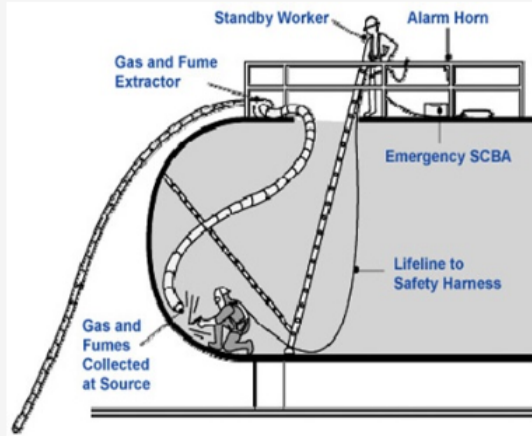
For cooling temperature can be maintained up to 18°C and Relative Humidity can be between 40 to 70.

Dehumidifiers are normally used for lower capacities from 10T to 40T (single unit) and the numbers can be scaled up as per requirement.

Our dehumidifiers can be used to:

- Prevent metal corrosion
- Reduce drying times for concrete, insulation and fireproofing
- Aid processes, such as stabilising or preserving food products
- Preserve equipment on cold stacked offshore rigs
- Dry out water-damaged buildings

Ventilation



Confined space is **a space with limited entry and egress and not suitable for human inhabitants**. Workers perform their jobs in equipment viz columns, vessels, reactors, tanks, bullets, spheres, underground vessels, de-salter vessels, Sulphur pits etc.

Hazards in a confined space often include harmful dust or gases, asphyxiation, submersion in liquids or free-flowing granular solids (for example, grain bins), electrocution or entrapment.

Issues at site:

In confined areas, during shutdown, maintenance and repair jobs like welding, fabrication, riveting job, strip lining, nozzle replacement, trays replacement are carried out, as a result, the air inside the confined areas becomes unhealthy and hazardous.

Due to this heavy hot work and the presence of several people inside the confined area, the temperature increases to high levels approx. 48-50 °C with high relative humidity.

Following conditions may also prove fatal:

- Toxic, flammable, or explosive atmospheres
- Harmful gas, fume, or vapour
- Lack of oxygen
- Excessively high temperature
- Chemical exposures due to skin contact or ingestion as well as inhalation of 'bad' air
- Physical hazards – noise, heat/cold, radiation, vibration, electrical, and inadequate lighting

Due to insufficient oxygen in the air and presence of toxic fumes, it becomes difficult for workers to work inside the confined areas for a long duration. Hence, they have to take breaks in regular intervals and standby person has to go inside. This affects the productivity of the worker is affected, resulting in delays in the completion of the job and project.

As a solution, we provide blowers for ventilation and design complete HVAC system for effective air flow from bottom to top ensuring proper ventilation is maintained at confined space. Additional air ducts can be deployed by client.