



COMPRESSED AIR TREATMENT



PAPER



COOLING TOWERS

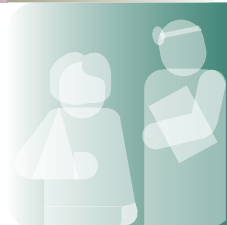


ELECTRONICS

INDUSTRIAL CHILLERS



PAINTING



HOSPITAL



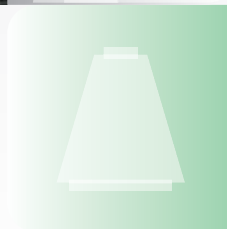
GLASS



CEMENT



AUTOMOBILE



TEXTILE

GOAL

To deliver world class Compressed Air & Cooling Systems

SOLUTION

GEM offers a varied range of solutions to plant engineering & utility requirements.

PRODUCTS

The widest range of innovative products

- Compressed Refrigeration Air Dryers
- Desiccant Air Dryers
- Compact Desiccant Air Dryers
- Wall Mounted Refrigeration Air Dryers
- Compressed Air Receivers
- Compressed Air Filters
- Moisture Separators
- Automatic Drain Valves
- Water Cooled After Coolers
- Air Cooled After Coolers
- FRP / Evaporative Cooling Towers
- Dry Cooling Towers
- Gem Aqua Savers
- Industrial Chillers



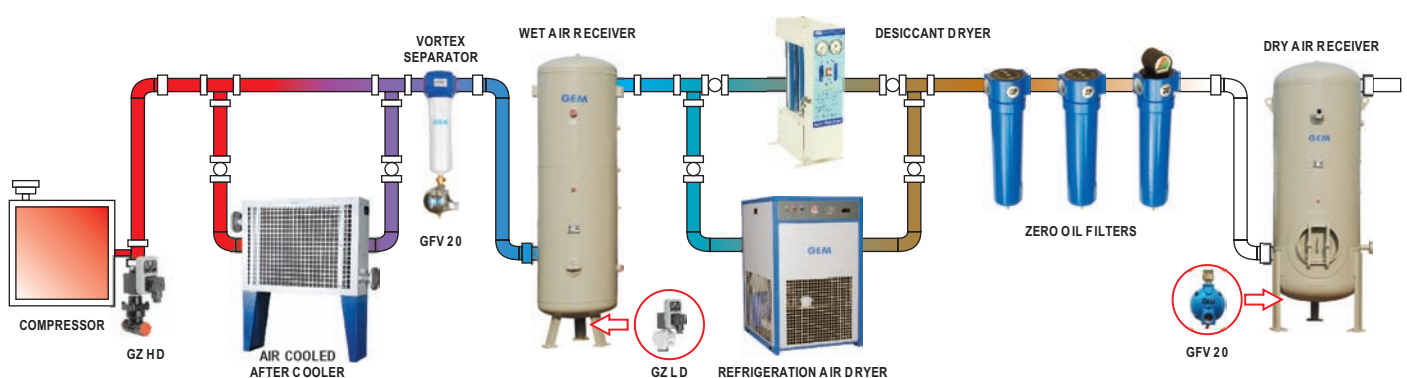
ABOUT GEM

- Established in 1984
- By a group of technocrats with a strong commitment to excellence
- Largest manufacturer of Compressed Air Dryers & Accessories, Cooling Towers and Industrial Chillers
- An ISO 9001-2000 certified company
- Workforce consists of professionals in all operations and renowned consultants & specialists.
- Pioneers in many areas of product innovation

BUSINESS NETWORK

- Corporate Office in Coimbatore with manufacturing facility
- Regional Offices in Chennai, Kolkata & Mumbai
- Channel Partners & Channel Associates spread all over India
- Global presence in Nepal, Sri Lanka, Bangladesh, Saudi Arabia & Nigeria

Typical Installation of Compressed Air System



QUALITY & TECHNOLOGY

- The R & D Dept boasts of the best talents with in-depth technical knowledge on International Codes like ASME, TEMA which facilitate to design products to ISO Standards
- Close co-ordination with Research Institutes and feedback from the user industries have helped GEM develop and improve upon products.
- The ISO 9001-2000 accreditation from 'DET NORSKE VERITAS, The Netherlands ' stands testimony to the High Quality Standards at GEM.
- With a strong background in Technology and Commitment to Quality, GEM continues to grow and expand internationally as the supplier of world class innovative products.

MANUFACTURING

- The manufacturing system at GEM is one of the best with in-house facilities
- Manufacturing equipments of various types for Compressed Air Treatment and Water Cooling Treatment with all accessories and vital components
- Internationally renowned brands are also used wherever possible.

CUSTOMER CARE

- GEM offers quick and prompt customer care solution and easy availability of spare parts.
- Availability of full-fledged & factory-trained customer care personnel at all major cities and all critical nodes through out India
- Customer Training Workshops, Product Awareness Seminars, Participation in National and International Trade Fairs / Industrial Exhibitions, Newsletters help GEM communicate and collect feedback from customers for continuous product improvement.



Compressed Air Dryers & Accessories



Refrigeration Air Dryer
(2KD+ Series)

- Compact design
- Low pressure drop
- Consistent dew point
- Power saving
- Non-cyclic system
- Working pressure 7-16 bar g

Range from 20 to 2500 cfm



Refrigeration Air Dryer
(PET Series)

- Compact design
- Low pressure drop
- Consistent dew point
- Power saving
- Non-cyclic system
- Working pressure 16-60 bar g

Range from 20 to 1000 cfm



Wall Mounted Refrigeration
Air Dryer (2KW Series)

- Wall mounting type
- Compact design
- Eco friendly system
- Consistent dew point
- Low pressure drop
- Power saving

Range from 10 to 40 cfm



Refrigeration Air Dryer
(RAD Series)

- Shell and copper tube heat exchanger
- Non-cyclic system with provision of hot gas by-pass valve
- HP, LP, WP overload safety trips
- Low pressure applications

Range from 3000 to 10000 cfm



Refrigeration Air Dryer
(Sleek Series)

- 7X heat exchanger
- Energy efficient compressor
- C & E refrigerant
- Zero air loss easy drain valve
- Unique sleek control
- Less footprint
- Noise less operation

Range from 125 to 1000 cfm



Super Pack Desiccant
Air Dryer (SPD Series)

- Compact in size
- Ease of operation
- Light weight
- Non-corrosive aluminium body
- Aesthetic look
- Silent - Low purge noise

Range from 10 to 900 cfm



Desiccant Air Dryer
(HLD Series)

- Designed for higher capacities as per ASME Sec VIII / IS: 2825
- Inbuilt pre filter and after filter
- Pressure gauges and safety valves on adsorber tower

Range from 300 to 2000 cfm



Desiccant Air Dryer
(HLN Series)

- Corrosion resistant epoxy painting
- Auto drain fitted in pre-filter
- User friendly mimic panel
- Sturdy box frame

Range from 20 to 250 cfm



Air Cooled After Cooler (ACC Series)

- Aluminium finned copper tube heat exchanger
- Continuous duty motor with highly reliable fans
- Most suitable for portable application

Range from 35 to 1000 cfm



Water Cooled After Cooler (WAV/WAH Series)

- Option of TEMA C / Std. Engg. practice design
- Comparatively low power consumption
- Less impact of ambient in the outlet temperature
- Vertical and horizontal models available

Range from 50 to 5000 cfm



Moisture Separator (VWS & MST Series)

- Zero maintenance
- Most effective separation of water and oil
- Non corrosive aluminium body construction
- Sight glass for visually checking moisture collection

Range from 100 to 1000 cfm



Compressed Air Filter (GZF Series)

- Air Quality - as per ISO: 8573-1
- Warranty for elements also
- Coloured elements for specific grade
- Low pressure drop

Range from 35 to 5000 cfm



Automatic Drain Valve (GFV 20)

- Zero air loss
- No electricity - no noise
- Robust design
- Manual discharge
- Cleanable orifice
- Float type
- Long life aluminium casting

Working pressure from 0 to 20 bar



Automatic Drain Valve (GZ Series)

- Universal voltage
- Fully automatic - no maintenance
- Adjustable interval and discharge times
- Solid-state timer for long life and reliability
- Small compact design

Two models for all applications



Compressed Air Receiver (VAR Series)

- Designed as per IS:7938
- Hand and man holes provided as per code
- Working pressure up to 40 bar
- Shell / Dish as per ASME Sec VIII or IS:2825

Range from 0.25 to 40 m³

Cooling Towers



Bottle Type

- Full FRP casing for longer life
- No sprinklers to be maintained
- Operates for lower pressure return water
- Ideal for multiple inlets and outlets
- All fasteners are made of stainless steel
- Multi cell option

Capacity: 100 to 4500 lpm



Square Type

- Full FRP casing for longer life
- Stationary non-clog nozzle for easy maintenance
- PVC fills for larger contact surface area
- Weather proof IP55 flange motors with extended shaft
- Auto fill float for make-up water
- Ideal for multi cell option

Capacity: 100 to 4500 lpm



Evaporative Coil Type

- Raw water flow to mother machine avoided
- Cooling water moves in a closed loop, hence no contamination
- Zero deposit of scale in mother machine and heat exchanger
- Combines with dry tower to offer lower temperature
- Option of SS heat exchanger available
- Ideal for multi cell

Capacity: 100 to 3000 lpm



Modular Type

- FRP modular panels
- HD steel supports
- Walk-way for access and service
- Gear box with ground helical gears
- Fan hood to enhance outlet velocity
- Aerodynamically designed FRP fan blades
- Modular construction for easy add on

Capacity: 4500 to 15000 lpm



Dry Cooling Tower - DCT

- Reduces water consumption
- Eliminates algae / bacteria related problems
- Eliminates sewer charges
- Eliminates scale and corrosion
- Extend equipment life & reduce maintenance
- Fan cycle based on ambient temperature
- Also ideal for process cooling

**Range: 120 to 3000 kVA Generator
1 to 10 MW Power Plant**



Dry Cooling Tower - DGAS

- Horizontal configuration
- Suitable for gas generators
- Adaptable for heat recovery
- Zero maintenance
- Zero water loss
- Multiple fan options for flexibility
- Also ideal for process cooling

Range: 500 to 3000 kVA Power Generator



Gem Aqua Saver - GAS

- Reduces water consumption
- Eliminates algae / bacteria related problems
- Eliminates sewer charges
- Adaptable heat recovery
- Eliminates scale and corrosion
- Extend equipment life & reduce maintenance
- Easy installation
- Also ideal for process cooling

**Range: 100 to 5000 kW Induction Furnaces
30 to 1000 HP Air Compressors**



**CONSERVE
WATER**

Compact Refrigeration Industrial Chiller



- Compact - occupies minimum space
- Built in closed stainless steel tank / External tank optional.
- Stainless steel high pressure pump for reliable operation
- Microprocessor control
- Temperatures -5° to $+30^{\circ}\text{C}$
- Modular design

Capacity: 0.75 to 100 TR

TYPICAL APPLICATION

Automobile Industry
Chemical Industry
Electronics Industry
Food & Beverage Industry
Footwear Industry
Glass Industry
Leather Industry
Pharmaceutical Industry
Plastic Industry
Textile Industry

Cement Plants
Distilleries / Breweries
General Instrumentation & Plant Air
Health Care / Hospitals
Lacquering or Spray Painting
Metal Spraying
Oil Cooler
Oncology Machine
Paper Mills
PET - Stretch Blow Moulding
Power Plants
Printing Process
Process Chilling
Rice Mills
Sand Blasting
Spinning / Knitting / Hosiery Mills
Sugar Mills
Textile Processing
Tea Gardens
Welding Machine and many more

SALES & CUSTOMER CARE



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