

**HUMISCOPE**  
HUMIDITY CONTROL SOLUTIONS

**OVER 30 YEARS' SPECIALISING  
IN ENERGY-EFFICIENT AIR  
TREATMENT SOLUTIONS**





### Common Industry Problems We Solve

- Condensation and fog
- Bacteria and disease
- Fungus and mould
- Corrosion and rust
- Unpredictable conditions
- Ice build-up
- Production downtime
- Structural damage
- Machinery damage
- Humidity control
- Air Pollution
- Safety Hazards

WITH TECHNICIANS AND ENGINEERS THROUGHOUT AUSTRALIA, WE DELIVER TAILORED HVAC SOLUTIONS AND MAINTAIN LONG STANDING RELATIONSHIPS WITH OUR CLIENTS. WE ARE MORE THAN HAPPY TO ADVISE AND OFFER OBLIGATION-FREE ADVICE.



Humiscope are humidity control specialists with over 30 years' experience both in Australia and overseas. We are committed to providing energy efficient systems from simple applications to specially engineered solutions.

We have provided bespoke results for a wide range of industries across a variety of sectors and are recognised for setting the standards for complete customer satisfaction.

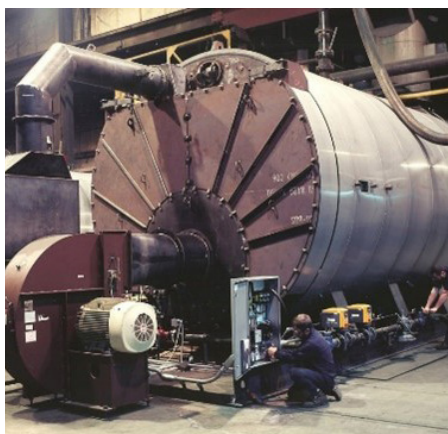
**We work with you to design the best solution for your needs.**

## Case Studies

**Global Meat Producer  
Optimised Production by  
Reducing Freezer Downtime**



**Humidity Control Saves  
Boiler Room Corrosion in  
New Zealand Dairy Sector**



**Leading Pharmaceutical  
Laboratory Eliminated  
Product Inconsistency and  
System Inefficiency**



**WE DO A FULL EVALUATION OF YOUR OPERATION AND OFFER  
INFORMED SUGGESTIONS AND ADVICE. OUR SYSTEMS WILL PROVIDE  
STRESS FREE HUMIDITY CONTROL, ALLOWING YOU TO FOCUS YOUR  
ATTENTION ON OTHER MATTERS.**



# What We Do

At our core we solve industrial and commercial humidity control problems.

With an optimal environment, production processes and storage become more efficient with quality, durability and hygiene improved.



The Humiscope team believe strongly in the importance of continual learning. We keep up to date with new trends and emerging technologies to help provide better solutions. It excites us!

We observe and research

- Hybrid energy recovery systems
- New desiccant materials with low heat regeneration characteristics
- DC voltage Air Conditioning systems



**CUSTOMISED  
AIR TREATMENT  
SOLUTIONS**



**MINIMUM 24 MONTH  
WARRANTY ON ALL  
PRODUCTS**



**100% AUSTRALIAN  
OWNED & OPERATED**



**ENERGY EFFICIENT AND  
ENVIRONMENTALLY  
FRIENDLY SOLUTIONS**



**ONSITE & ONGOING  
TRAINING FOR  
OPERATORS**

# Areas Of Expertise

Humiscope has provided tailored climate control solutions for a variety of industries however our main areas of expertise are:



## PHARMACEUTICAL PRODUCTION PROCESSES

Dehumidifiers create a safe and stable environment for the manufacture and storage of pan coated tablets and gelatin capsules.

Dehumidification technology is more energy efficient than other technologies in achieving and maintaining the required temperature. Having a stable environment allows gelatin capsules to dry without shrinkage. It evaporates moisture in the pan which allows the coating to dry precisely.



## MEAT PRODUCTION AND FOOD PROCESSING

Without some form of dehumidification, condensation and fog will occur in cold room environments where food is regularly processed and stored. Ice build-up in cold stores and freezers can cause production delays and safety hazards which increase operating costs and energy consumption.

Dehumidifiers introduce dry air into the cold store and extracts the wet humid air, keeping the area dry, safe and running efficiently.



## DAIRY AND SPRAY DRYING

Heat and humidity can cause corrosion to machinery and can damage the product being dried. Furthermore, with added moisture in the air, the hygroscopic ingredients and powders absorb the excess moisture, making it become sticky and build up inside the conveying lines.

Dehumidification physically removes the moisture from the incoming air. This allows for stable inlet conditions, enabling consistent quality and increased performance from the blowing or spray drying process.

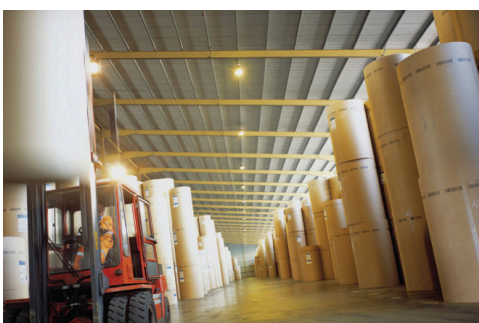


## CANNABIS CROP PRODUCTION AND STORAGE

Cannabis is extremely sensitive to humidity with bud and root rot being common issues. It is also susceptible to a variety of humidity-related diseases such as botrytis, downy mildew and Alternaria.

Different humidity levels are required during different stages of growth and in the drying process.

Dehumidifiers simultaneously improve grow quality, increase dry weight mass, and stimulates the manufacture of compounds.



## PRESERVATION AND STORAGE

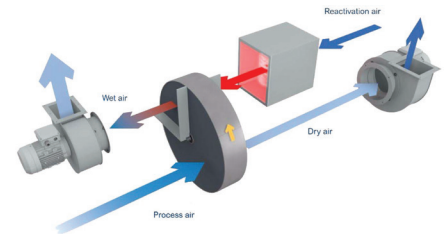
Many materials are more susceptible to moisture than they are to temperature. Storage units and warehouses, museums, libraries, and archive rooms can all suffer from common humidity problems such as corrosion, rot, mould, moisture absorption and degradation of documents. A dehumidifier will remove moisture from the air and maintain the ideal climate all year around. Reduce your energy consumption and stress level. Set and forget.

# Our Products

We provide a variety of solutions that aid in creating the perfect environment. In some instances, there may be a specific issue or application that requires a combination of products.

## Desiccant Dehumidifier

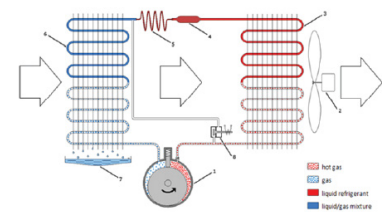
Desiccant dehumidifiers work by passing air through a rotating desiccant wheel to exact moisture from the air. They achieve humidity levels below 35% and have proven themselves to reduce both operating costs and energy consumption. Desiccant dehumidifier performance is unaffected by external air temperature and can maintain a consistent temperature in all seasons.



## Refrigerant Dehumidifier

Refrigerant dehumidifiers (also known as mechanical dehumidifiers) work best in spaces where the temperature is at 20° C and above and humidity levels of 50% and above.

They work on the humidity of the room and run when the humidity is above its set point.



## DC Air Conditioning Units

Low voltage (48 volts) specifically designed for industrial applications such as base stations with renewable power or hybrid power in off-grid sites.

These systems are a temperature control solution designed for challenging indoor and outdoor environments.



## Humidifiers

A humidifier adds moisture to the air. Humidity has a significant influence on the rooms climate and thus has a great influence on the well-being of people or on the stability of industrial processes that take place in a room.



## Dry Rooms - CER

A dry room creates the optimal space for achieving low dew point control for your hygroscopic and moisture sensitive material storage. Our dry or drying rooms are constructed of insulated panel. The rooms come complete with an air conditioning unit and a state-of-the-art dehumidifier.

These controlled environment rooms are fully weatherproof and delivered ready to operate.



**WE ARE AUSTRALIA'S SUPPLIER OF CHOICE FOR TFT DESICCANT DEHUMIDIFIERS. TFT ARE A LEADING GLOBAL COMPANY BASED IN ITALY THAT MANUFACTURE DEHUMIDIFICATION PRODUCTS THAT ARE USED BY A MULTITUDE OF INDUSTRIES AROUND THE WORLD.**

# Our Services

## Design and Installation

We are experts in designing, building and installing state-of-the-art climate control systems and are committed to providing energy efficient solutions. We always begin the process with a friendly, obligation free chat. We provide a full evaluation of your operation and offer suggestions and advice. Respecting your vision and budget.

We are with you all the way including post installation data logging, tweaks and check ins.

Our systems will provide stress free humidity control, allowing you to focus your attention on other matters.

## Rentals

Whether the application is a temporary project or being able to test technology before investing, renting is a risk-free option. Some temporary projects we have provided rental units for:

- Sand blasting
- Bridge restoration
- Flood restoration

From low dew-point applications to larger air flow volumes in larger spaces, our rental fleet is highly versatile. There are many configuration options and easy customisation for each application.

## Service and Maintenance

With over 30 years' experience in dehumidification technology, we are able to service any brand industrial dehumidifier regardless of make and model.

We can identify where improvements can be made so you can optimise equipment and system reliability and preserve your investment.

## We Service the Following Brands



**CALL US – OBLIGATION FREE – AND WE CAN TALK THROUGH YOUR  
SPECIFIC CONCERNS AND SUGGEST SOME SOLUTIONS THAT WOULD  
WORK BEST FOR YOU!**



# Our People



**JOHN MORGAN**  
**Director and Technical Expert**

With 35 years HVAC experience including 30 years specialising in humidity solutions, John oversees all work throughout Australasia. He is a hands-on operator and thrives on collaborative teamwork, with clients, contractors, and employees.

*'With a focus on energy efficient outcomes, I am passionate about providing fellow engineers and their clients with solutions that establish and maintain reliable, safe, and effortless operations.'*



**KATHERINE EDWARDS**  
**Operations Manager**

With over 20 years administrative experience and a robust understanding of the industrial sector, Katherine is instrumental in the business' day to day running. Katherine's role is varied and includes account management, the organisation of both the sales and technical teams' workload and managing the kit and cold room section of the business.

*'We always aim to do the right thing. Transparency and honesty are of utmost importance.'*



**MELISSA LE ROUX**  
**Applications Specialist**

Covering the northern states of Australia and neighbouring islands, Melissa has worked at Humiscope since 2015. Under John's tutelage Melissa has become highly knowledgeable in dehumidification technology and applied this knowledge into practice in many diverse projects. Melissa is an advocate for education, believing in sharing knowledge to better inform clients.

*'I thoroughly enjoy my role. The applications are so diverse with each industry having its own challenges. It always makes the job interesting. I love the end of a project and seeing how the solution we provided has resulted in success for the client.'*



**ANDREW RANKIN**  
**Senior Technician**

Andrew has worked at Humiscope since 2018 and specialises in the installation and service and maintenance of desiccant and refrigerant dehumidifiers. From full inspections and diagnostics to installation and upgrades to providing performance assessments and knowledgeable advice.

*'What I'm passionate about - providing quality customer care and maintaining long standing relationships with my clients. What frustrates me - clients' stories of being charged for new parts that could simply have been repaired.'*



**VIKTOR MIRANDA**  
**Service Technician**

With trade qualifications in refrigeration and air conditioning and a passion for great customer service, Viktor joined the Humiscope family in 2020. Working for several years in Sydney on large industrial and commercial installations Viktor has honed his technical trade skills and enjoys the meticulous nature of the job.



**SHELDON FERNANDEZ**  
**Service Technician**

Having worked for many years with large contractors in Queensland and northern NSW Sheldon brought his wealth of experience and extensive industry knowledge to Humiscope in 2020. Sheldon has full trade qualifications in refrigeration and air conditioning. His keen logical mind has seen him become exceptional at systems diagnostics.



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*Over 30 years' experience  
specialising in energy-efficient air  
treatment and climate solutions*



Contact the Team

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