

Company Overview



Humiscope



Not everything is resilient to environmental fluctuations. Sometimes for your company to succeed, you need to master your indoor environment.

Whether it's maintaining temperature, controlling humidity or improving air quality, Humiscope helps businesses and corporations to thrive by providing efficient, effective, and reliable end-to-end indoor environment solutions.

Common problems we solve

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

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

Benefits to industry

- ✱ Create the ideal climate
- ⚖️ Improve safety conditions
- 💰 Lower operating costs
- 📈 Improve production efficiency
- ✂️ Eliminate equipment downtime or damage
- ⚡ Reduce energy consumption



We are a group of engineers, technicians and draftsmen dedicated to our clients and committed to providing energy efficient indoor environment systems; from simple applications to specially engineered solutions. We get a kick out of creating and building environments that offer precise climate control. The more precision required, the better!

01

Dedicated

We are dedicated to our clients and providing the best solution possible.

02

Supportive

We exist to support our clients, their businesses and each other.

03

Integrity

We build and maintain trust with our clients by being honest, consistent and not compromising on our values.

Humiscope is the only Australian company offering complete end-to-end solutions for controlling indoor environments, and the supplier of premium HVAC solutions.

We solve indoor climate challenges in ways our competitors cannot.

We know environmental conditions may be critical to your operation, however you have countless other important tasks to focus on. You need someone you can trust to take care of your indoor environment – someone who understands and values the cost of failure.

It's why we take a detail-oriented approach, utilise the latest technology and draw on our years of expertise to ensure our clients maintain safe and effortless operations.



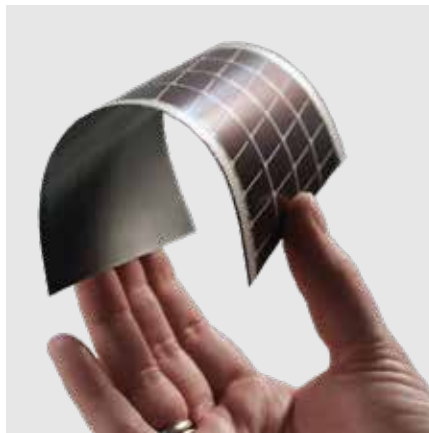
The Humiscope team strongly believe in the importance of learning, improving on what we know and what we do. As we rely on technology, we keep up to date with new trends and emerging technologies and constantly innovate to achieve the best possible solutions for our clients. It excites us!

Case studies

We have provided bespoke results for a wide range of industries across a variety of sectors both in Australia and overseas. With over 35 years' industry experience, it's safe to say we absolutely know our stuff.



- ▲ Global Meat Producer Optimised Production by Reducing Freezer Downtime



- ▲ Global Manufacturer of Sustainable Batteries Chooses Humiscope for Complete Solution



- ▲ 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 climate and humidity control, allowing you to focus your attention on other matters

Dehumidification technology

Humiscope provides tailored indoor climate solutions for a variety of industries. Below are examples of some industries and applications for which we have solved indoor climate control challenges.



Pharmaceutical

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 process 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.



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.



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, degradation of documents. A dehumidifier will remove moisture from the air and maintain the ideal climate all year round. Reduce your energy consumption and stress level. Set and forget.

✕ Climate controlled rooms

Whether you require an end-to-end solution or looking to convert an existing space, we can deliver. Rooms can be built onto existing flooring or delivered on a skid base.

We use only state-of-the-art HVAC systems and hold ourselves to the highest professional standard. With a team of dedicated and highly skilled engineers, draftsmen and technicians we:

Custom design

Expertly build

Meticulously install

Deliver ready to operate

We don't just provide solutions, we work with you, as a partner, to fully understand what you're trying to achieve.



Drying Rooms

The purpose of a drying room is to create a temperature and humidity-controlled environment where the product can be dried or cured rapidly while still maintaining or improving its quality.



Cold Rooms

A cold room using dehumidification technology, ensures you never have to deal with condensation, fog and ice build-up again. It also prevents corrosion and keeps your stored product in its optimal state.



Ultra-low Dew Point Rooms

We create the optimal space for achieving low dew point control for your hygroscopic and moisture sensitive material. Sealed, airtight rooms that maintain controlled ultra-low humidity levels. Insulated and protected from external influences and designed for precise, consistent low dew point and temperature control.



Controlled Environment Room – CER

A Controlled Environment Room (CER), sometimes referred to as a Controlled Temperature Room or Chamber (CT) is an area usually within a larger facility whose purpose it is to precisely control the indoor environment. Hospitals, laboratories, and pharmaceutical and nutraceutical manufacturing facilities will house a climate-controlled room or storage chamber to ensure optimal manufacturing processes and the stable storage of medicines, vitamins, and hygroscopic material.

Our products

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

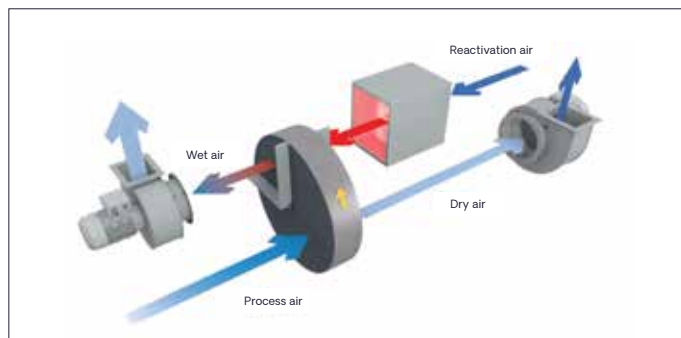
Desiccant Dehumidifiers

Desiccant Dehumidifier

Desiccant dehumidifiers work by passing air through a rotating desiccant wheel to extract moisture from the air. They achieve relative humidity levels below 35% and have proven themselves to reduce both operating costs and energy consumption.

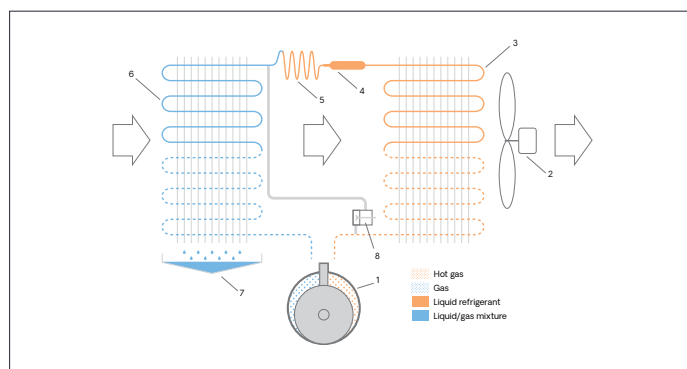
Industrial Desiccant Dehumidifier

Industrial dehumidification units have a thicker rotor and a high impermeability to air and water vapor due to rubber gaskets. They control humidity in the room and reach a very low dew point of -30°C to -65°C .



Desiccant dehumidifier performance is unaffected by external air temperature and can maintain a consistent climate 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.

We select refrigerant units when the project requires comfortable humidity levels.

Humidifiers



A humidifier adds moisture to the air. Humidity has a significant influence on the room's 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.

With over 35 years' specialising in humidity control technology, we align ourselves with partners that offer premium quality, reliability and innovation. We have been with our current suppliers for many years, all of whom are based in Europe.

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.

We don't just provide solutions, we work with you as a partner to fully understand what you're trying to achieve.

'We're very happy with the outcome. Drying times were reduced by 50%. Essentially, we created our own climate.'

- Peter Schulte, Managing Director, Schultes Meat

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
- Freezers
- Transformer repair

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

'I just want to say a big thank you for your efforts and help in getting the rental dehumidifier to Narrabri'

- Neil Rattray, Supervisor, BSA

Service and Maintenance

With over 35 years' experience in dehumidification technology, we are able to service any brand 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 have specially trained technicians covering the east coast of Australia.

Call us – obligation free – and we can talk through your specific concerns and suggest some solutions that would work best for you!

'Katherine was terrific! Nothing was too much trouble, and she couldn't have been more helpful.'

- Peter Schulte, Managing Director, Schultes Meat

We service the following brands:



Our people



John Morgan
Director and Technical Expert

With 35 years HVAC experience including 30 years specialising in dehumidification technology, 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’.



Melissa Le Roux
Applications Specialist

Melissa has worked at Humiscope since 2015. Under John’s tutelage Melissa has become highly skilled in dehumidification technology and applied this knowledge into practice in many diverse projects. Always keeping abreast of industry trends and emerging technologies, Melissa is an advocate for education and believes in sharing her knowledge to better inform her 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’.



Katherine Edwards
Operations Manager

With over 20 years administrative experience and a robust understanding of the industrial sector, Katherine is instrumental in the businesses 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’.



Customised
Solutions



Minimum 24 month
warranty on all
products



100% Australian
owned and operated



Energy efficient and
environmentally
friendly solutions



Onsite and ongoing
training for operators



Mark Jones

Business Manager - NSW

Experienced Sales & Operations Manager with an extensive working history within the HVAC industry. From manufacturing through to installation Mark's vast experience covers air conditioning, refrigeration, fans, chillers, and dehumidification systems. Highly skilled in electrical wiring, cooling and design and with varied roles and tertiary qualifications in management, sales and marketing, Mark provides our clients with both technical know-how and a strong customer focus.

'The strong collaboration of our team to find the right solution for our customers is refreshing. We make a difference by providing the best service hand in hand with quality products. Helping to master indoor air efficiently and optimise conditions.'



Andrew Rankin

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.'



Ladan Bagherzadeh

Mechanical Engineer and Drafting Support

Ladan has a Master's of Science in Mechanical Engineering and has worked as a professional Mechanical Engineer for over six years. She has a wealth of engineering experience in the R&D sector, manufacturing and HVAC and construction sites and specialises in drafting, documentation, mechanical design, reverse engineering, manufacturing, and their supervision.

Ladan specialises in practical mechanical designs while always considering our clients requirements. Ladan's designs have proven operationally effective and her expert use of software such as Mechanical Desktop, SolidWorks and AutoCAD gives her the ability to bring a client's dreams to life.

'I love seeing clients' happy faces when I meet their requirements by following their specifications in my designs'

Our people



Paula Andrea Gil

Drafting and Engineering

Paula has worked with Humiscope since early 2022. With a Bachelor's Degree in Architectural Drafting and Design and over five years' experience in the field, her experience and technical knowhow allows us to offer our clients a more in-depth view of proposed work. Paula has a great working knowledge of BIM modelling which allows us to create digital representations of the physical and functional characteristics of a space we are designing for our clients.

'I love that I get to be part of a project from the beginning and then, in the end I get to see the designs I helped create, become a reality.'



Victor Miranda

Service Technician

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

'I can't say enough about Humiscope and John in particular. He is a great leader and teacher. He cares more about people than the bottom line. He has provided a supportive environment where he makes each one of us feel important and an integral part of the team.'



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 including a Cert IV in Refrigeration. His keen logical mind has seen him become exceptional at systems diagnostics.

'I am constantly stimulated by the wide scope of skills I can use within Humiscope to get the job done and done well. Calling on multiple aspects of various trades such as electrical, plumbing, gas fitting, sheet metal, fire systems, refrigeration etc.'

Call us – obligation
free – and we can
talk through your
specific concerns
and suggest some
solutions that would
work best for you!

Humiscope

Master your indoors

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