

OVER 30 YEARS SPECIALISING IN
ENERGY-EFFICIENT AIR TREATMENT
AND CLIMATE CONTROL SOLUTIONS



DEHUMIDIFIER HIRE
SHORT & LONG TERM RENTAL

**SOLVE TEMPORARY HUMIDITY PROBLEMS
WITH A RENTAL DEHUMIDIFICATION UNIT**

COMMERCIAL DEHUMIDIFIER HIRE

SHORT AND LONG TERM RENTAL

HIGHLY EFFICIENT Commercial Desiccant & Refrigerant DEHUMIDIFIERS
From LOW DEW POINT Applications to LARGER AIR FLOW Volumes

Dehumidifier Hire is perfect for:

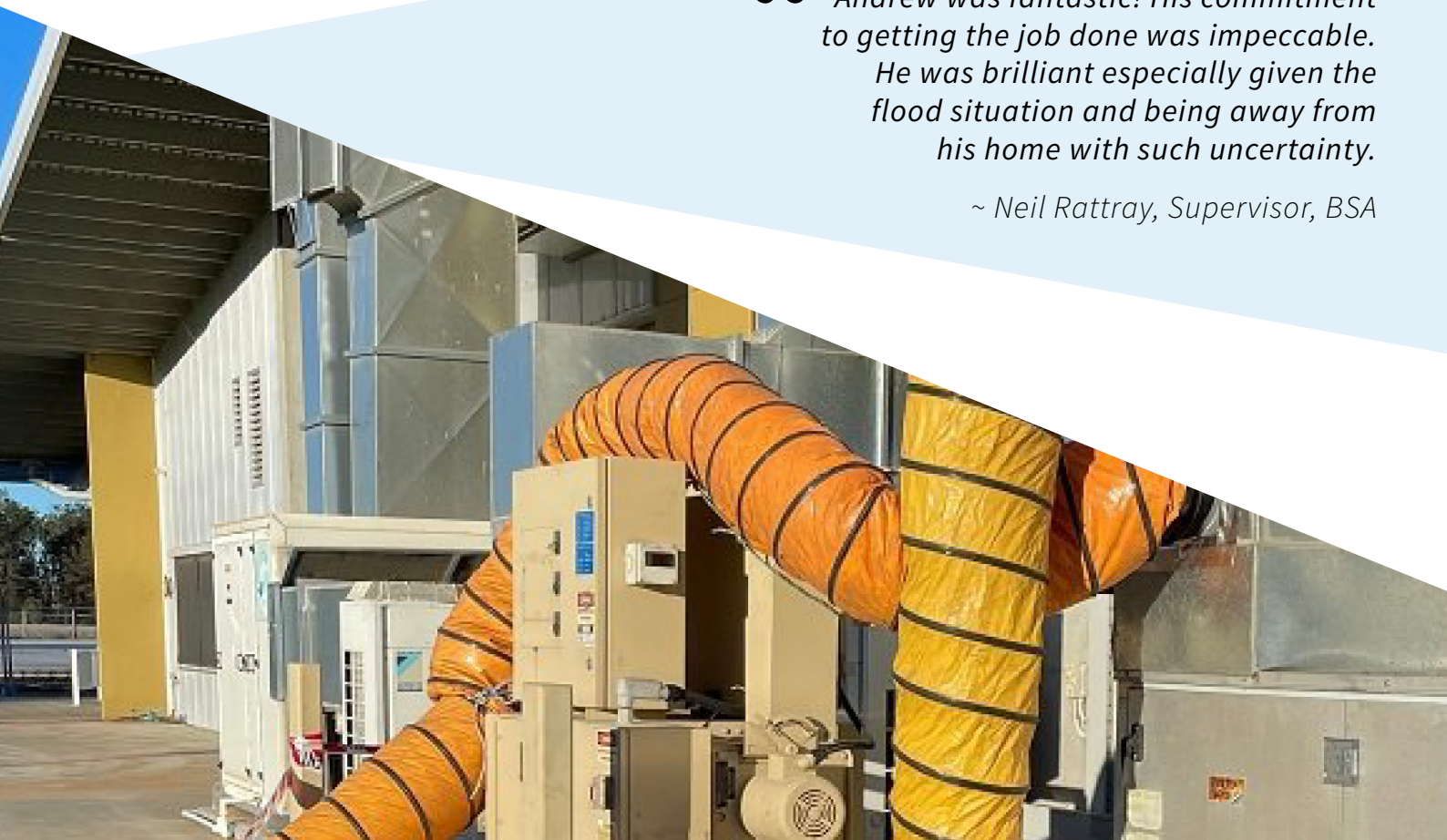
- ~ Temporary projects
- ~ Projects that suffer from seasonal variations
- ~ Testing the technology before you invest
- ~ Commercial properties that have suffered flood and water damage

Humiscope's rental fleet are large capacity industrial and commercial dehumidification equipment, correctly maintained and serviced.

CAPACITIES RANGE
FROM 100m³/hr to
10,000m³/hr
OR LARGER

“ Andrew was fantastic! His commitment to getting the job done was impeccable. He was brilliant especially given the flood situation and being away from his home with such uncertainty.

~ Neil Rattray, Supervisor, BSA



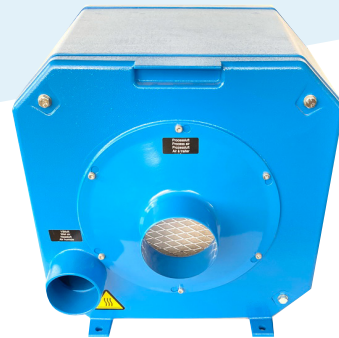
SOME OF OUR RENTAL OPTIONS



PORTABLE REFRIGERANT DEHUMIDIFIER
LIGHTWEIGHT and HIGHLY EFFICIENT
Removes up to 60 litres per day at 30°C - 80% RH
WEIGHT 40kg - Large wheels for ease of mobility

PRICE = \$200 + GST per week

LIGHT WEIGHT but ROBUST
DESICCANT DEHUMIDIFIER
M100 dehumidifier - WEIGHT 26kg
Airflow 100 cubic metres per hr
PRICE = \$270 + GST per week



MOBILE DESICCANT DEHUMIDIFIER with
HUMIDITY CONTROL at virtually ANY TEMP
HC 300 Dehumidifier - WEIGHT 52kg
Airflow 500 cubic meters per hour

PRICE = \$810 + GST per week

PERFECT FOR CONSTRUCTION, FLOOD RESTORATION,
DRY AND COLD ROOMS AND STORAGE APPLICATIONS

BENEFITS OF RENTING FROM HUMISCOPE

- Large range of industrial and commercial dehumidifiers for rent throughout Australia
- The opportunity to try dehumidification technology before investing
- High quality dehumidification equipment correctly maintained and serviced
- We provide continued support and maintain professional relationships.



WEATHER TIGHT construction for both INDOOR and OUTDOOR use

Model HCD-600
Airflow 1000 cubic m/hr

PRICE = \$1,350 + GST per week

BUILT FOR ALL CONDITIONS
INDUSTRIAL DEHUMIDIFIER

Model HCD 1125
Airflow 2000 cubic m/hr

PRICE = \$ 1500 + GST per week



“

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

~ Peter Schulte, Managing Director, Schulte's

OPTIONAL EXTRAS

~ DUCTING, DELIVERY AND INSTALLATION AVAILABLE – POA

~ WEEKLY TRACKING/MONITORING OF MOISTURE LEVELS – POA

SOME APPLICATIONS AND INDUSTRIES



Sandblasting

Condensation on freshly sandblasted or painted surfaces can be a serious problem - particularly if unfavorable weather is about. If condensation forms on critical areas in the midst of these operations, they usually have to be re-blasted and re-coated. The moisture damage may be minimized by careful scheduling of the final "dust-down" & painting to coincide with acceptable weather, but this is not always practical.

With dehumidification we physically remove the moisture from the air, meaning that corrosion and condensation are unable to occur. It reduces the problems and costs resulting from quick oxidation on blasted steel and condensation on freshly blasted or coated surfaces. It also allows for scheduling independent of weather conditions; and decreases drying time.

Transformer Repair

Our client needed to carry out maintenance on specialised transformers. To complete this work a temperature specific, very low humidity environment was required to maintain the integrity of the transformers. The transformer also had to be disconnected and stripped. This exposes electrical connections and parts. If moisture was to form on any of these parts, the transformer will not function correctly once reassembled and reconnected to electricity.

Dehumidifiers control relative humidity (RH) levels and can be set to remain at the ideal temperature and humidity - which in this case was 5% RH and 27° C.

These units have a robust construction, easy and simple maintenance, with a very long operating life.



Powdered Compounds

A manufacturer of powdered products had issues with powder caking and solidifying on their factory floors during the more humid months. This caused safety issues for employees when walking and also excess cleaning time and cost to clean.

Dehumidifiers substantially reduce humidity which allows hygroscopic compounds to remain as powder. The dry air is in direct contact with the product during the process so it is no longer affected by the weather - meaning no more clumping

Cold Storage

The build up of fog and wet floors in a cold room of a large meat processing plant caused visibility and safety issues. Forklifts often skidded in water puddles and cardboard packaging became soggy at the edges.

A desiccant dehumidification system provides a source of cool, dry air and allows the cold room to operate under positive air pressure, reducing humidity and preventing the moisture from entering the space.



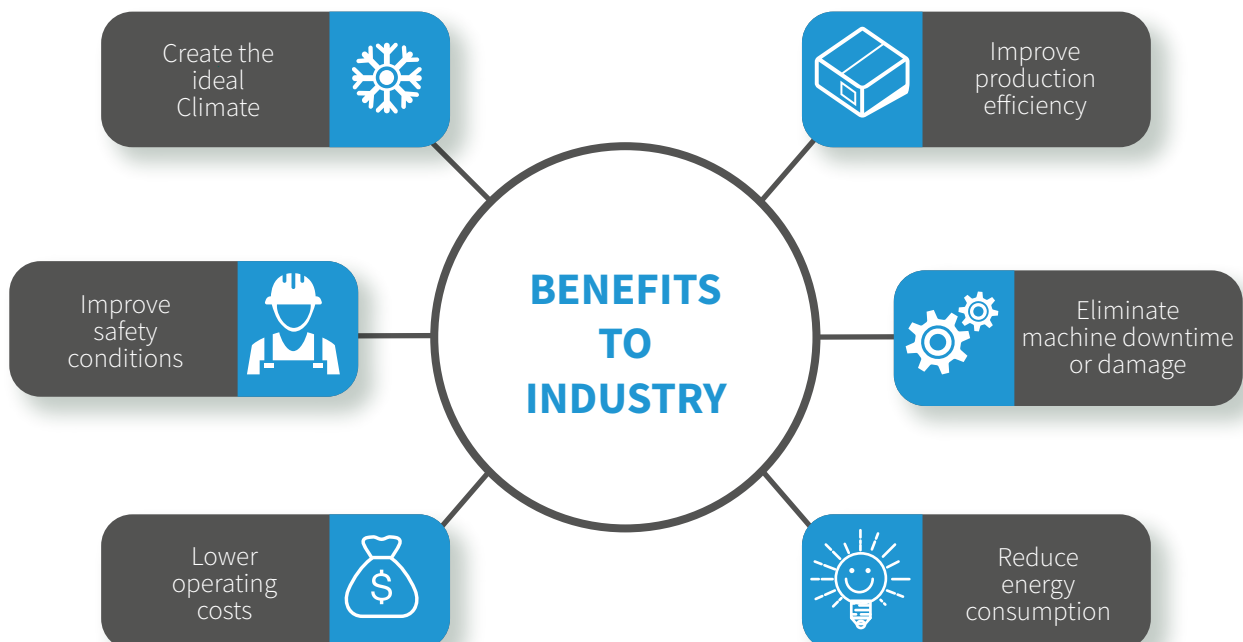
Ice Cream Manufacturer

One of Australia's largest soft serve ice cream producers deep cleans their factory equipment after each product run. This process requires equipment to be dismantled, cleaned and thoroughly dried before they can reassemble the machinery. The process takes three days.

A desiccant dehumidifier removes moisture from the air and reduces drying time from a three day process, to one. Significantly reducing production downtime and operating costs.



Whether the application is a temporary project, a humidity issue caused by seasonal variations or simply wanting to test the dehumidification technology before investing, Dehumidifier hire is ultimately a risk free option!



DESICCANT DEHUMIDIFICATION

Desiccant Dehumidification is the most effective equipment for drying a concrete slab. It lowers the relative humidity (RH) to near 0%.

Other dehumidification options can be used but are less effective than a desiccant dehumidifier. For example, Low Grain Refrigerant (LGR) type dehumidifiers can lower relative humidity to around 25%. Additionally, Conventional dehumidifiers can only lower relative humidity to around 35%.

For RH, the lower the percentage (i.e. 0%) the lower the moisture content in the air. The lower the RH, the faster the slab dries.

Desiccant dehumidifiers combined with air movement can be the most effective way to quickly dry a concrete slab. **However, CAUTION should be used as over-drying of the slab is a possibility. The process should be closely monitored by experienced technicians.**

Minimising the volume of air (and concrete) being dried is a practical way to optimise the drying process. Plastic sheeting is normally used to create a thin layer of dry air above the slab. Doing this helps reduce the volume of air being dried. Furthermore, it also helps the equipment cope with the size of the environment.

The Most Cost-effective Drying Option

Waiting for the slab to cure naturally would be the most cost-effective method of drying. However, time constraints are often a factor – especially on building sites. Using LGR dehumidifiers combined with air movers in a closed environment can have some success in drying the slab, however this could still take several weeks. Alternatively, heating the slab in an open environment using infrared lamps may also help, however this method relies heavily on good ambient conditions.

Australian Standards for Flooring Installation

The Australian Standards for relative humidity (AS 1884-2012) in a concrete slab before installation of flooring states that relative humidity (RH) should not exceed 75% (Section A3.1.2 “Relative humidity in-situ probe test”). The levels of RH in concrete slabs should be monitored according to ASTM F2170-18 (also referenced in AS 1884-2012 Section A3.1.1 “Test methods”). Failure to follow these recommendations may lead to issues post installation. These may include damage to resilient flooring, bubbling of flooring, flooring lifting or even mould and microbial growth on the underside of flooring.

IECL can provide assessment and testing of concrete moisture according to Australian standards. IECL can also provide recommendations of drying strategies or create a scope of works in how to dry the concrete slab.

Please note: Humiscope can provide a print out of AS 1884:2021 and pdf of F2170-19a Standard test method for determining relative humidity in concrete floor slabs using in situ probes.

**CONTACT US TODAY FOR AN OBLIGATION FREE CHAT
SPECIALLY TRAINED TECHNICIANS AND ENGINEERS
1300 686 822**



From the first phone call I made to you and to the follow-on communication, was perfect. Thank you.

~ Neil Rattray, Supervisor - BSA



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HUMIDITY CONTROL SOLUTIONS



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contact@humiscope.com.au



www.humiscope.com.au



QLD NSW VIC SA WA

Over 30 Years
Experience
Specialising in
energy-efficient
air treatment &
climate solutions