

# MOISTURE CONTROL

As you are no doubt aware, condensation is a major problem in properties, particularly in new apartments. If left untreated it can easily rot carpets and result in mould infestation. You already know that The Mould Doctor can reliably and efficiently take care of any mould problem. Now we can also offer a solution that takes care of condensation – before mould or any other problems appear.

## WHAT CAUSES CONDENSATION?

Condensation is water or frost on windows and is formed when warm moist air comes into contact with cooler dry – the same way that a bathroom mirror will steam up after a hot shower.

## DO FAULTY WINDOWS CAUSE CONDENSATION?

No. Glass is usually where condensation is first noticed because it has the lowest temperature of any interior surface in a house.

## WHY IS CONDENSATION A PROBLEM?

The insulation and construction materials used today are designed to keep cold air outside. However energy efficient designs and weather stripping also keeps warm moist air inside. When combined with the additional moisture from showers, cooking and clothes driers, the result is excess moisture and high relative indoor humidity level.

## HOW CAN CONDENSATION BE REDUCED?

Opening a window briefly is only a temporary solution, because dryer cold air will enter the room while moist air is allowed to escape. A desiccant dehumidifier will effectively lower humidity levels inside a dwelling.

## WHAT IS A DESICCANT DEHUMIDIFIER?

Desiccant dehumidifiers work according to the adsorption principle, making them ideal for high humidity levels at low temperatures.

Desiccant dehumidifiers use a slowly rotating disc or belt of material that absorbs moisture from the air. The damp section then moves through a drying process (typically a heating element) that evaporates the water and collects it in a tank.

Because they don't use cooling to extract the moisture, desiccant rotor models can be much more effective than refrigerative models in cold climates. Best of all, the performance of desiccant dehumidifiers are

largely unaffected by the temperature of the air. The rate of dehumidification remains stable in low and high temperatures, making them suitable for all seasons.

## WHAT IS THE DIFFERENCE BETWEEN A COMPRESSOR AND A DESICCANT DEHUMIDIFIER?

### Desiccant Dehumidifier

- Maintains high performance even in low temperatures
- Portable and lightweight (5–9kg)
- Minimal noise
- May include heater. Higher wattage.
- Increases room temperature by about 3–5°

### Compressor Dehumidifier

- Only works well in higher temperatures
- Bulkier and heavier (over 10kg)
- Noiser
- Less power consumption
- Increases room temperature by about 1–2°

Note: The rise in room temperature will also depend on the room size and operation of the machine.

### DESICCANT DEHUMIDIFIER

- ☑ Low maintenance
- ☑ Effective
- ☑ Reduces moisture content

