

# ENERGY RECOVERY



**THE DEHUM HEAT RECOVERY SYSTEM, SUITABLE FOR ANY DESICCANT ROTOR DEHUMIDIFICATION UNIT**

- ✓ UP TO 35% EFFICIENCY IMPROVEMENT
- ✓ NO PRODUCTION INTERFERENCE
- ✓ RAPID CAPITAL PAYBACK
- ✓ REDUCED CARBON FOOTPRINT
- ✓ NO LOSS OF ROTOR PERFORMANCE
- ✓ ONGOING ANNUAL SAVINGS

The dehum Energy Recovery Solution is installed with no interference to production and offers a rapid return on investment in as little as 9 months.

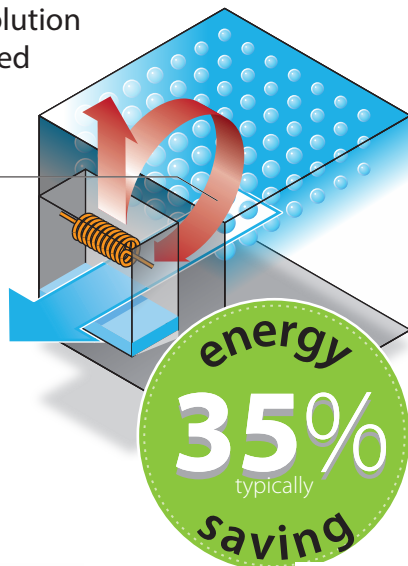
A standard desiccant dehumidifier will use between 1.2 to 1.4kW of energy to remove 1kg of moisture from the air. In a typical existing installation, around 90% of the rated energy input to the machine is for the regeneration heater.

Here at dehum we have developed a unique way of reclaiming what was waste energy in the process to achieve a proven result of less than 0.9kW of energy per kg of water removal. These results have provided energy savings of around 35% on currently installed equipment.

dehum bespoke solution on currently installed equipment

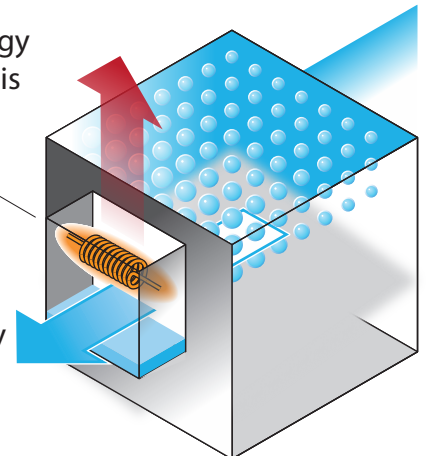
Recovery of **60%** wasted energy

Less than 0.9 kW energy to remove **1Kg** water from the air



**90%** of rated energy input for machine is for regeneration heater

**1.2–1.4 kW** energy to remove **1Kg** water from the air



Using our bespoke solution, we can recover around 60% of previously wasted energy, which is then used to pre-heat the incoming air stream, reducing load on the regeneration heater.

This leads to direct energy savings. The actual ROI depends on the costs of the energy recovery system and the installation requirements, which are site-specific.

A survey can be requested which will calculate the return on investment for your actual installation.

- ✓ 35% energy savings can be realised
- ✓ ROI in as little as 9 months
- ✓ Installed with no interference on production



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