

CASE STUDY



Flower Drying for Global Skin Care Brand

Humiscope's Solution
Increases Product Quality and
Yield and Decreases Time to Market

A wide-angle photograph of a rural landscape. The foreground is a vibrant green field with some brush. In the middle ground, there are rolling green hills with scattered trees and a fence line. The background shows a dense line of trees under a clear, bright blue sky.

Humiscope
Master your indoors

The Client

Introducing Top of The Range Flowers

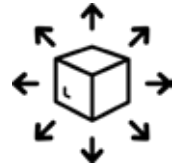
Top of the Range Flowers (TOTRF) has been operating since 1996. They experiment with different Australian native and wildflower crops, farming methods, and processing systems.

Owners, Lodi and Yucca Pameijer have an exclusive contract to supply Red Kangaroo Paw (*Anigozanthos flavidus*) to a botanics laboratory that specialises in developing ingredients exclusively derived from native Australian plants.

The Kangaroo Paw's essence is extracted as an oil and provided to global skincare brand, Clarins - used exclusively for their #extrafirming skin care range.



Award
Winning



National
Distribution



Sustainable
Farming

Clarins video showcasing Top of the Range Flowers.



The Situation

Challenge

Additional Costs and Time Delays

Since 2019 the process for TOTRF has been to collect the long flower stems by hand, shred them while wet and then freight thousands of kilos to a company in the Sunshine Coast, Queensland who freeze dry the product and then ship it to the botanics laboratory.

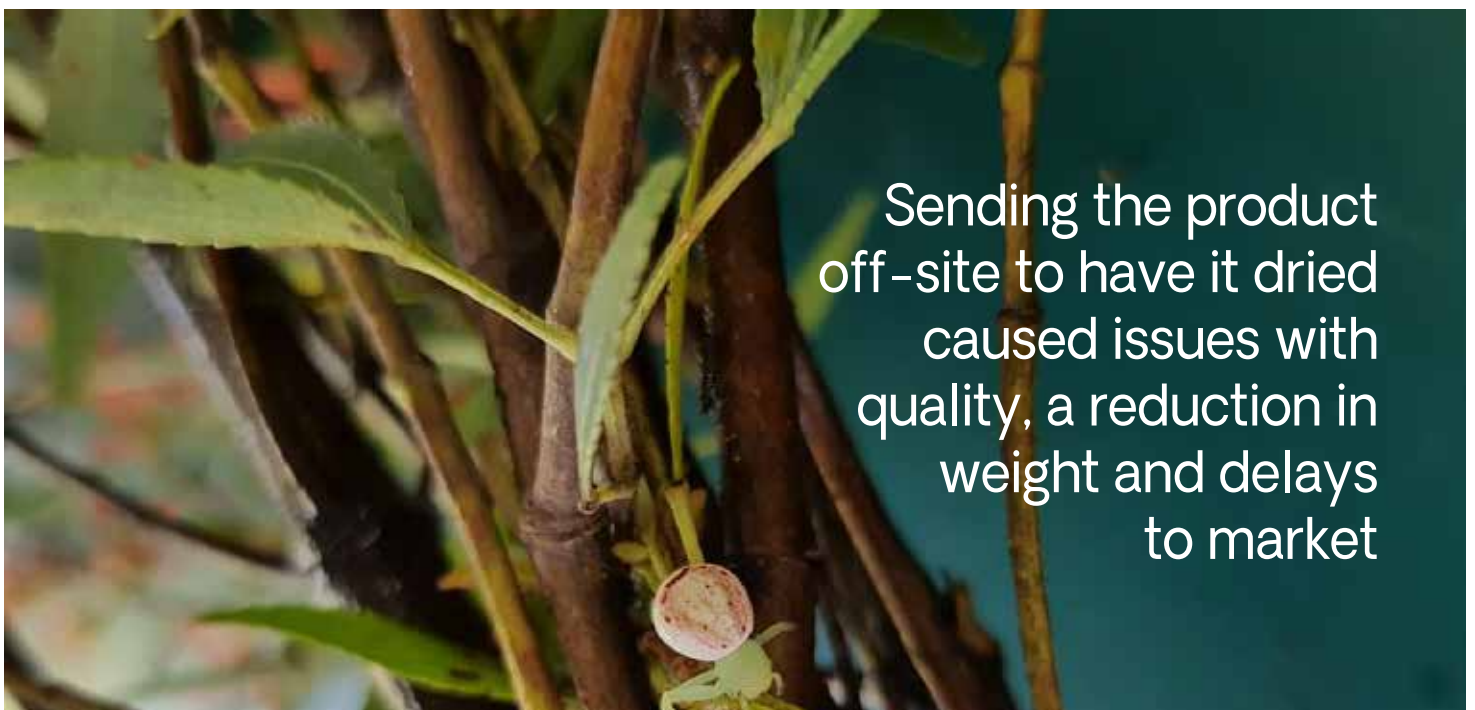
ISSUES

The time between harvest and freeze drying meant a possibility of quality reduction due to rot beginning to form on the stems of the still raw flower.

Cost to freight to third party company.

Extra cost to pay for freeze drying thousands of kilos of product.

Involving a third party meant time delays in getting the product to their client.



Enter Humiscope

Indoor Environment Specialists

Farmers by trade, Lodi and Yucca are very innovative and are always looking at ways to improve their processes. After researching the best solution, and talking with their peers, they decided to contact Humiscope.

Director, John Morgan met Lodi and Yucca at their farm to learn more about their business, their challenges and what they wanted in a solution.

The couple wanted to use their existing cold room, which they use during the summer months to store Christmas Bush, and convert it into a drying room in spring for their Kangaroo Paw Harvest.

This process would require the dry room to have a consistently high temperature and the cold room to sit at 5° C.

“ Katherine was very helpful in providing information to address our requirements. She was very competent regarding the specifications and was ready to refer any technical questions to Humiscope Director, John (Morgan), which we found very reassuring.

*~ Lodi Pameijer
Owner, Top of the Range Flowers*



The Solution

Desiccant Dehumidification Technology

The traditional method of sending the product offsite to be dried, meant the whole process from harvest to its final destination, would take days.

Humiscope talked through the benefits of a desiccant dehumidifier for an all-in-one drying room and cold room solution.

Humiscope chose a system that would precisely manage humidity and moisture levels during both the drying process and for their cold storage requirements.



To maintain it's quality our produce needs to be dried in the shortest possible time to less than 9% moisture content.

~ Lodi Pameijer, Owner, Top of the Range Flowers



The Solution

Desiccant Dehumidification Technology

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.



The dehumidifier is working very well with the weight of the product dropping – which was the goal. The space was loaded with 50 kg of product yesterday and this morning it weighs only 36.5 kg'

~ Lodi Pameijer, Owner, Top of the Range Flowers

Humiscope designed a TFT Desiccant Dehumidifier AD 2500 as the ideal system for TOTRF's needs. Lodi and Yucca chose to install the unit and ducting themselves,

Humiscope provided instructions on how to install the unit within the cold room and how best to install the duct to move the dry air around the space and expel the moisture laden air into the outside environment.



We found Humiscope very helpful in addressing our operational questions.

~ Lodi Pameijer, Owner, Top of the Range Flowers

The Outcome

Increased Quality Happy Client

The first batch of dried product sent, received a glowing response from their client. There was both a higher amount of active ingredient available for extraction and the quality of the active ingredient was better.



The system easily performed the task of drying the produce inside the insulated sealed room. The drying process is complete in about 36 hours.

~ Lodi Pameijer, Owner, Top of the Range Flowers



We loved the professional and personable support provided by Humiscope and we are now discussing the possibility of upgrading to include a heat recovery system. This will likely make the whole system more energy efficient.

Return on Investment

Better Service

By eliminating the need to ship the flowers to a freeze-drying company, Top of the Range Flowers now provides a better service to their client by offering a faster turnaround.

Value Adding

Their client is exceptionally happy with the higher amount of active ingredient that can be extracted and the increase in quality.

Time Efficiency

Top of the Range Flowers has saved time by removing the need to ship and dry their product at a third party business.

Cost Saving

Shipping costs have decreased twofold. Firstly, there is no need to ship to a middle man. Secondly, the amount of product to be shipped has decreased. Five boxes of shredded flowers now equates to only one box of dried product.

Increased Profits

By offering a better-quality product with a higher volume of extraction viability, Top of the Range Flowers has increased their profits.



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

Humiscope

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