



**INCREASING THE LIFE  
OF YOUR CAPITAL ASSETS  
AND REDUCING UTILITY COSTS**



**AN ISO 9001:2015 ACCREDITED COMPANY**



The **AVACO Group** of companies was established in 1993 and has evolved into a leader in the field of Predictive Maintenance and Condition Monitoring over the last 26 years. Our expertise and dedication have positioned us as a leader in the field of condition monitoring and transformer oil.

**DryTrans** is a brand under the AVACO banner specializing in custom engineering and design of On-Line Continuous Moisture Management Systems for Oil Filled Transformers. Transformers are one of the most important capital assets that a utility can own. Maintaining a healthy transformer is a core practice of any maintenance program.

There are many variables that affect the life expectancy of the transformer. The most important of all being the moisture content in the solid and liquid insulation. Moisture in the transformer is the enemy and its presence is directly related to the dielectric strength of the oil and the paper.

Excessive moisture has a direct correlation on the age of a transformer. Existing technical papers and authorities around the world have linked the life of the transformer to the life of the solid insulation. Any attempt to protect the solid insulation will increase life and slow the ageing process.

At DryTrans, we believe in a healthy, reliable and well-maintained network. The goal is to optimize the performance of transformers, extend life, protect the environment, and create a safe and efficient workplace.



### ISO 9001-2015 Quality Management System:

Manufacturing of Transformer  
oil filtration and intelligent  
condition monitoring  
systems.



### ISO 14001-2015 Environmental Management System:

Manufacturing of Transformer  
oil filtration and intelligent  
condition monitoring  
systems.



### ISO 18001-2015 Safety Management System:

Manufacturing of Transformer  
oil filtration and intelligent  
condition monitoring  
systems.

We have developed a series of **Moisture Management Systems** to effectively reduce the moisture content in the solid insulation using the oil as a medium. All our systems are technologically state-of-the-art and designed to be maintenance-friendly and reliable.



**TR** 5

Flow Rate: 300 – 500 LPH  
Moisture Removal Capacity: 3 – 5 Liters  
Compact Design



**TR** 20

Flow Rate: 100 – 500 LPH  
Moisture Removal Capacity: 5 – 7 Liters  
Enclosed and Rugged Design



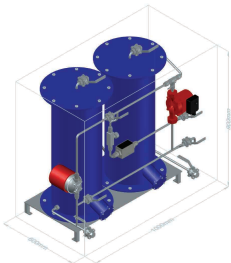
**TR** 50

Flow Rate: 100 – 500 LPH  
Moisture Removal Capacity: 10 – 12 Liters  
Enclosed and Rugged Design



**MMS** 90

Flow Rate: 100 – 500 LPH  
Moisture Removal Capacity: 10 – 12 Liters  
SMART Communications and HMI Interface



DryTrans has developed a series of **Double Cylinder Systems** that can be configured to remove moisture and acidity at the same time.

The TRAM series are available in the 5, 20, 50 and 90 configurations. Users can choose to use the two cylinders in any configuration that is needed for moisture and acidity. The **TRAM Double Cylinders** can double the moisture adsorbency to a maximum of 20 – 24 liters.



## OPTIONS



### **Oil Lines:**

Choose your preferred length of Stainless-Steel Braided inlet and outlet oil lines



### **Transformer Safety Valves:**

You can choose to add safety valves on the transformer supply and return to isolate the transformer in the event of an oil leak.



### **Moisture Sensors:**

Add inlet and outlet moisture sensors on your units to check moisture levels and oil temperatures in real time.

\*Five Meter oil lines, Transformer Safety Valves, and Dual Moisture Sensors are included as part of standard supply on the MMS90.



### **Dissolved Gas Monitor Integration:**

We can either supply and integrate our MMS90 with a new Online DGA unit or integrate your existing DGA unit with our MMS90.



### **Comprehensive Transformer Monitor Integration:**

We can either supply and integrate our MMS90 with a new Online Comprehensive Transformer Monitor or integrate our MMS90 with your existing monitor.



### **Communication Options:**

We can supply our MMS90 with various communication options for SCADA integration including IEC 61850.

# DryTrans

Manage – Moisture – Efficiently

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DryTrans is a brand under AVACO SOLUTIONS FZC, UAE