

## TRAM 90<sup>®</sup>

Moisture and Acidity Management System for Transformer Oil

- ✓ On-Line Continuous Operation →  
No Downtime
- ✓ Dual Media Cylinder Design →  
Complete Protection
- ✓ Selective Moisture Removal →  
Trustworthy Operation
- ✓ Smart Media Replacement →  
Easy Maintenance
- ✓ Built-In Safety Interlocks →  
Peace of Mind
- ✓ Advanced PLC Control with Outdoor HMI →  
Stay connected



### Why moisture matters?

Moisture is the silent destroyer inside every transformer. Even a small rise in water content accelerates paper insulation aging, cuts dielectric strength, and triggers dangerous bubble formation at hot spots. Research shows that doubling moisture in cellulose can halve its lifespan.

*"Koch, Water in Transformers, 11-09-2008"*

More than 99% of a transformer's water hides in the solid insulation, where it quietly erodes strength until sudden failure occurs. Keeping insulation dry is the single most powerful way to extend transformer life and prevent costly outages.

*"Cellulose Insulation in Oil-Filled PowerTransformers: Part I—History and Development, Thomas A. Prevost, T.V. Oomen - April 2009"*

### Introducing TRAM 90

DryTrans is built on a simple promise: [protect what matters most inside your transformer](#). At the heart of every transformer is its insulation, and nothing destroys it faster than hidden moisture.

The TRAM 90 is our flagship solution—an on-line, continuous dehydration system that quietly works 24/7, pulling out water and acidity before it can rob your transformer of strength and life.

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## Features unique to drytrans

### Smart Media Replacement → Easy Maintenance

Gravity-assisted discharge means quick, clean media changeouts—no heavy lifting or mess.

### Oil Recovery System → Lower Costs & Greener Operation

Recycles oil back to the transformer before replacement, cutting wastage and environmental risk.

### Integrated Monitoring & Control → Smarter Decisions

PLC + HMI touchscreen with dual moisture sensors gives you real-time insights and 10 years of data.

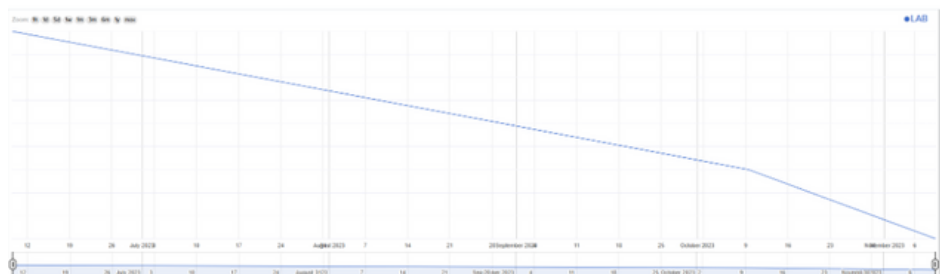
### Dual Media Cylinder Design → Complete Protection

One unit handles both water and acidity, shielding insulation from two of its biggest enemies.

### Rugged Outdoor Enclosure → Works Anywhere

Built tough (IP56) to thrive in deserts, tropics, or extreme cold—wherever your grid takes you.

**DryTrans doesn't just remove moisture—it protects your investment, lowers maintenance costs, and extends transformer life by decades.**



<b>End Client:</b>	xxxxxx	<b>DyrTrans Unit:</b>	TR50 ++ 018
<b>Location:</b>	SINGAPORE	<b>Commissioned:</b>	June 06, 2023
<b>MVA:</b>	12	<b>kV:</b>	132 ; <b>Oil Volume:</b> 15,000 L

Date: June 2023 - Inlet 21 ppm - Outlet 10 ppm

Date: July 2023 - Inlet 15 ppm- Outlet 8 ppm

Date: August 2023 - Inlet 12 ppm - Outlet 5 ppm

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***Protect What Powers You***

## Contact us

### Talk to our Sales Team

Discuss your requirements, learn about our solutions, or request a specification.

Sales Office:

AVACO Solutions Canada Inc, Mississauga, Ontario, Canada

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Designed in Canada  Made in the United Arab Emirates 

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