

MMS90 TECHNICAL SPECIFICATIONS

Application:

On-Line Continuous Moisture Removal and Management System for Oil Filled Transformers

Key Specifications:	MMS90
Flow Rate	100 - 300 LPH on Motor Setting
Moisture Management	to \leq 10 ppm
Media Volume	50 kg
Particulate removal	1 Micron, 3 Micron, 6 Micron, or 12 Micron (spin on type)

Construction:	MMS90
Enclosure	In Cabinet
Total Weight in KGS	380 KGS
Dimensions: Height x Width x Depth	H 1770 x W 860 x D 775 mm
Enclosure	Mild Steel 2.5 mm thickness RAL 7035 Light Grey Polyester Powder Coating with Galvanizing Coating for Corrosion Resistance
Cylinder and Piping	Stainless Steel 316 Grade
Enclosure Protection	Designed to comply with IP 56

Operation:	MMS90
Operating temperature range	0 °C to + 65 °C
Moisture adsorbent capacity	10 – 12 Liters APPROX
Operating oil temperature range	+ 2 °C to + 95 °C
Operating pump capacity	Maximum 300 Liters / hour
Electrical Supply	230 VAC; 50Hz/60Hz; 360W; 1Ø

Communication & Data:	MMS90
Display	4 Inch, Touch Screen
Data download	USB Flash Drive
Remote Communication	RS-485 port.
Communication protocols	Standard: Modbus RTU, Optional: DNP3, TCP/IP, IEC 61850
Alarm Relays	2 nos. NO/NC Contacts, (5A, 240 VAC)
Data Storage	8 GB (10 Years)

Installation:	MMS90
Installation time: Est.	5 hours with 2 engineers
Commissioning Time: Est.	1 hour
Drain valve	1/2 inch female
Alarms	Media Saturation Alarm, Digital Output: 1 NO/NC Contact (230VAC, 5A UL; 30VDC, 5A UL; Fail Safe Mode) System General Alarm, Digital Output: 1 NO/NC Contact (230VAC, 5A UL; 30VDC, 5A UL; Fail Safe Mode) Cable Size: 1 – 1.5 mm sq
Power Cable	2.5 mm sq
Inlet Valve	3/4 inch male
Outlet Valve	1/2 inch male

SMART Features:	MMS90
Monitoring	Moisture & Temp. probes at inlet and outlet, Optional: H2 Hydrogen
HMI	Full touch screen HMI access
Data Bank	Inlet and Outlet Moisture Inlet and Outlet Oil Temperature
Event Log	Alarms and Errors Log

Standard Installation kit:	MMS90
Instruction Manual – 1 No.	Provided
Wedge Anchor – 4 Nos.	Provided
Flat Washers – 8 Nos.	Provided
Anchor Nut – 8 Nos.	Provided
Quick Connect Oil Sampling Tube – 1 No.	Provided
3/4 inch SS Actuator valve with BSP/NPT Fitting – 1 Set.	Provided
1/2 inch SS Actuator valve with BSP/NPT Fitting – 1 Set.	Provided
3/4 inch SS flexible pipe, 10 Meters – 1 Nos.	Provided
1/2 inch SS flexible pipe, 10 Meters – 1 Nos.	Provided
USB Flash Drive – 1 Nos.	Provided

Warranty & Support: MMS90
DryTrans's all moisture management systems are backed by a ONE-year factory warranty. DryTrans systems are available through DryTrans's worldwide network of Authorized Representatives.

Note: Continuous research and improvement may result in specification or appearance changes at any time