ADT MINI

ON-POWER DEHYDRATION OF TRANSFORMERS

FOR VERY HEAVY WORKING CONDITIONS
ON POWER RECOVERY OF DIELECTRIC STRENGTH
LIFE EXTENSION OF TRANFORMER
REMOTE PROCESS CONTROL AND MONITORING
EASY CHECK OF FUNCTION VIA YOUR HANDY
ON-LINE DIELECTRIC SCREENING
EASY VERIFICATION BY LAB RESULTS
PLUG & PLAY INSTALLATION
MINIMUM SUPERVISION AND/OR MAINTENANCE

C:\MANUAL\ADT MINI \ VERSION 2021

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Drying of transformers

The presence of moisture in the transformer, to whatever degree, harms the insulation which will be permanently damaged. Drying methods can substantially reduce that deterioration.

The **ADT Mini** is intended for mobile and preventative use on transformers with more than 2 - 2.5% water content in the cellulose and with particle contamination.

The **quick restoration of safe dielectric conditions, life-extending features and remote control** also forms part of this concept. The system is especially suitable for drying of transforrmers situated in narrow, hardly accessible spaces.

Main features

- **Easy and safe installation and commissioning: all procedures are computer controlled to avoid any human lapses and errors**
- **No disconnection of the transformer under treatment, normally not even during installation of dehydrator (Plug & Play design)**
- **No air venting after installation: hydraulical interconections to a transformer oil filling are set under vacuum and subsequently rinsed by oil**
- **Moisture and particles content can be reduced to the level of a new transformer**
- **Quick restoration of dielectric strength of oil**
- **No impact on the insulating oil properties and DGA**
- **Direct check of dehydration efficiency based on amount of removed water: calculated as the product of difference input-otput water content in oil (2 x humidity sensors) x precise volumetric reading of oil throughflow**
- **Easy and safely replacement of adsorbent cartridges and filters without a potential oil spill: the oil is removed before replacement and forced back to the oil filling of transformer**
- **Easy control of function by SMS via your handy**
- **Remote monitoring & control of drying process: all relevant data are recorded and displayed (printed) as easy comprehensive diagrams**
- **Calculation of actual value of dielectic strength (Ud-value) of oil during the whole dehydration**
- **Easy verification of simulated Ud-values by lab reading(s) by means of Verification diagram**
- **DOG (Dynamic Overdrying Guard) procedure inhibits the overdying of hard insulants**

Specification

Power supply voltage	1 phase 230 VAC (or on demand)
Power supply frequency	50 (60) Hz
Power consumption:	200 W
Oil throughput	7.5 m^3 per day maximum
Outlet water content	5 ppm nominal , 1 ppm minimum
Outlet filtering grade	1 µm
Absorption capacity	2.6 kg of water
Installation options	mobile unit / permanently installed
Dry weight (without oil)	183 kg
Operating weight (oil filled)	200 kg
Dimensions	700x600x1240 (mm)
Hydraulical connection	2 x flexible 1/2“ hose
Communication:	GSM modem, LAN link, Internet, SMS

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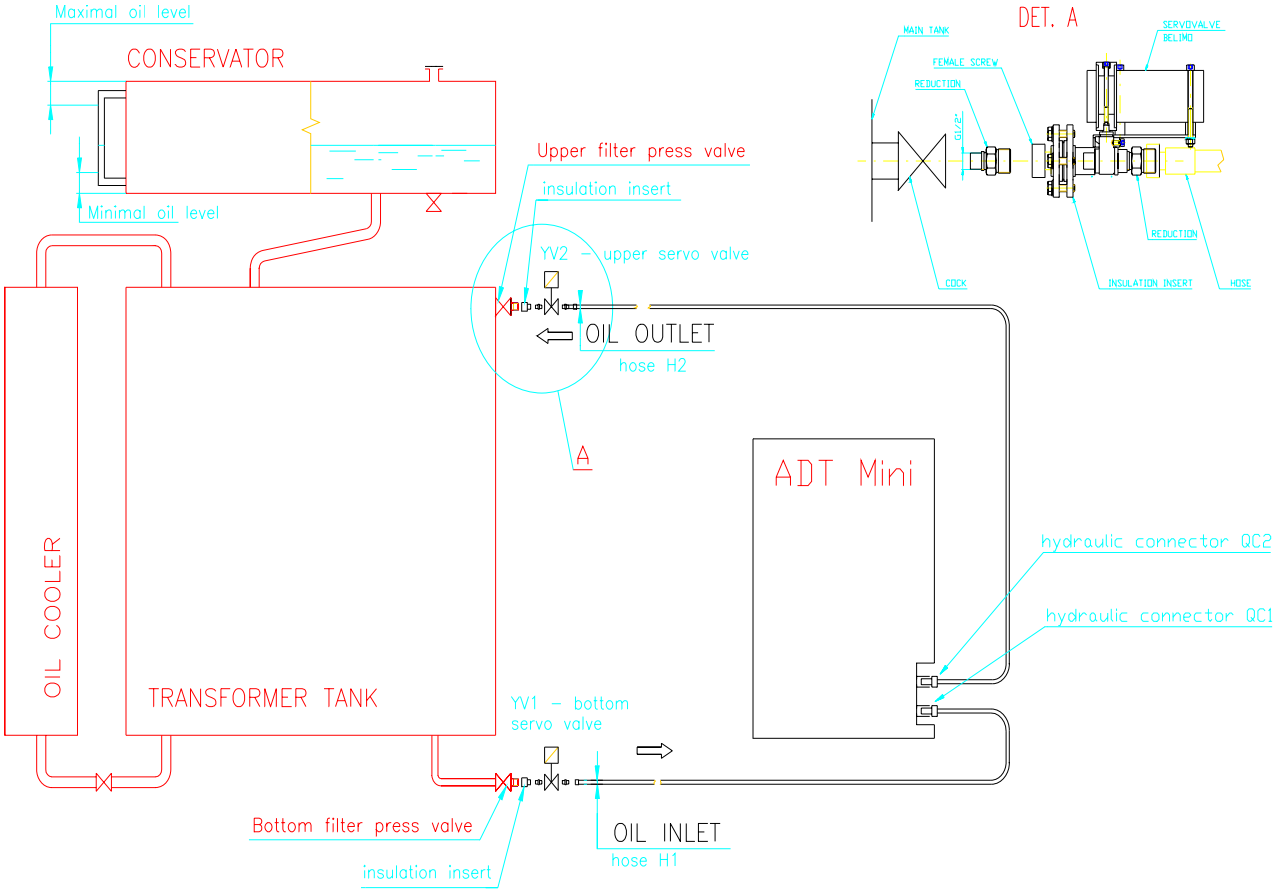
INSTALLATION



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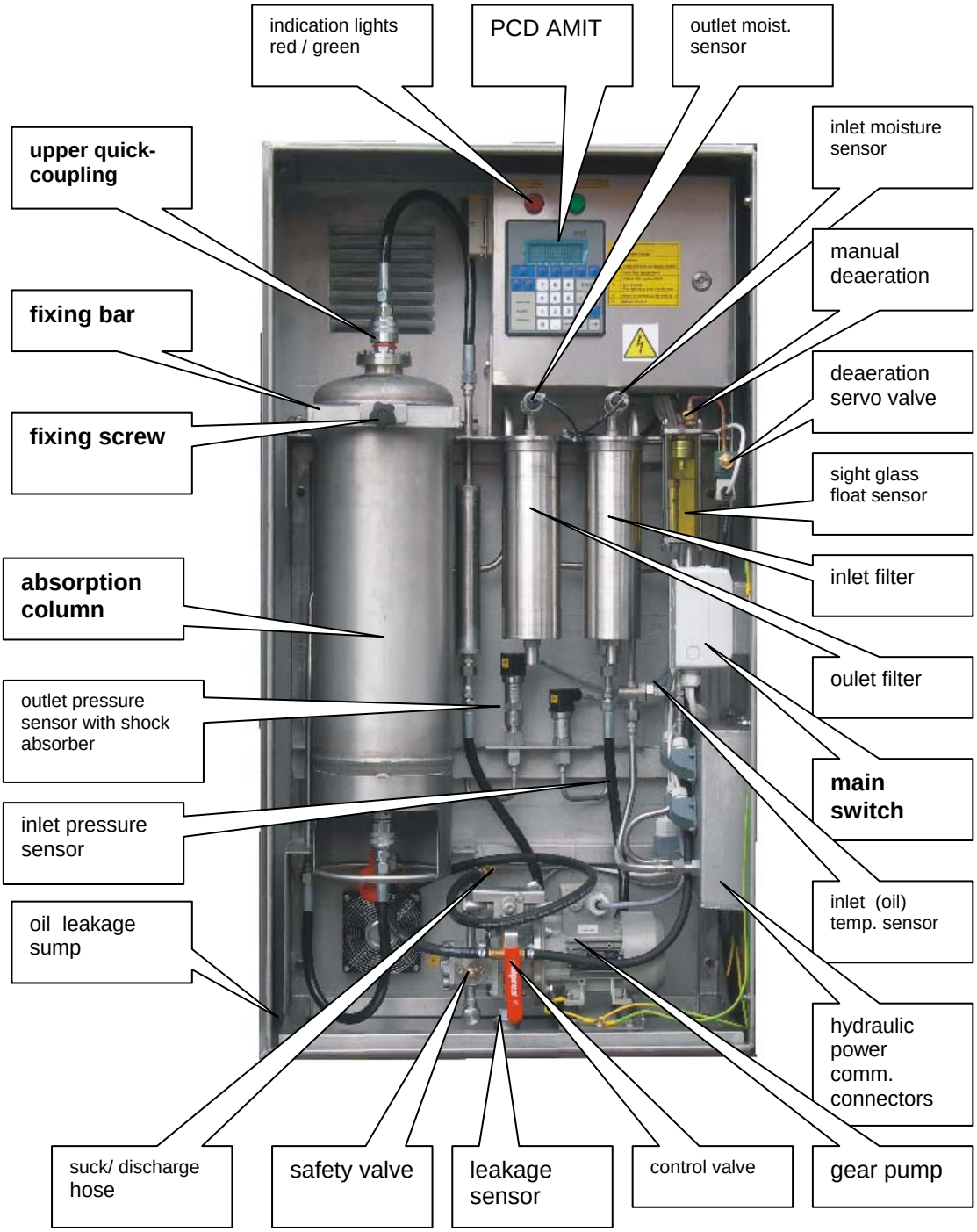

Internal layout of main components in ADTmini (open front door)

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