

FIELD OF APPLICATION

AIR-MIX solutions are convenient for the following purposes:

- Study impact of aeration rates on undergoing mechanical systems. Applications cover small component test rigs up to complete mechanical systems such as gearboxes or I.C. engines. AIR-MIX can also be used to supply part of a mechanical system with aerated oil while other subsystems operate in normal conditions with non-aerated oil.
- Compare lubricant formulations. AIR-MIX allows comparing aeration levels produced by various lubricants for pre-defined operating conditions of the generator. There is also a possibility to compare dissolved fractions and, therefore, to compare Bunsen coefficients.
- Investigate lubrication limits. AIR-MIX can be combined with other diagnostics to such as Air-X unit to detect lubrication limits. Aeration rates can be increased slowly during tests until oil pumps or other components become inefficient.
- Study the impact of aeration on wear and cavitation. AIR-MIX can be combined with TLA/RNT equipment for on-line monitoring of wear of a critical part (i.e. line bearings, conrod bearings, turbocharger bearing, etc.)

AIR-MIX CONTROLLED AERATION GENERATOR FOR TEST RIGS, ENGINES & GEAR BOXES

An innovative tool to produce oil flows with controlled air content



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SUBSYSTEMS

AIR-MIX combines two subsystems:



A **fluid conditioner** equipped with an aeration generator that covers aeration rates between 0 and up to 70%.



Our **AIR-X** equipment for real-time measurement of aeration levels in oil.

COMPONENTS TESTED

- Engines
- Cylinder heads
- Turbochargers
- Gearboxes
- Oil tanks
- Oil filters

CUSTOM MADE POSSIBILITIES

- Oil tank capacity
- Operating ranges (pressure, flow rate, temperature)
- Heating/cooling processes
- Remote control/Interface
- Shipment and commissioning anywhere in the world
- CE or UL certified



Let us know about your application and we will design an AIR-MIX solution that fits your requirements in terms of oil capacity, temperature, flow and pressure ranges.

Our solutions are either manually or PLC controlled.

