

# Air Release Properties of Petroleum Oils

## test method

The ability of a turbine, hydraulic, or lubricating oil to separate entrained air is a key performance characteristic in applications where agitation causes a dispersion of air bubbles in the oil. To determine air release properties, the sample is heated to a specified test temperature and blown with compressed air. After the air flow is stopped, the time required for the air entrained in the oil to reduce in volume to 0.2% is the air bubble separation time.

## automated air release value analyzer

- Conforms to ASTM D3427, IP 313 and related specifications
- Integrated Touch Screen Control Panel
- Automatic lift system that moves test vessel from air source to balance sinker
- Automatic calculation of final sample density for determination of air release value
- Integrated Circulation bath with Water Level Indicator
- Integrated Balance
- Secure Clamp Mechanism of the Air Tube
- Automatic Jacketed Test Vessel Draining

The Koehler Air Release Value Apparatus consists of a test vessel and air flow control equipment for delivering heated air at the specified flow rate to a lubricating oil sample maintained at constant temperature. Integrated Touch Screen Control panel guides user from start to finish of test operation and provides density calculation and timing operation for measuring the air release value of the test sample. Drying oven available as additional accessory for warming test oil at temperatures of up to 100°C; Integrated circulating bath and balance, and air bath for sinker; compressed air heater overtemperature and overpressure protection circuitry. Automatically measures the time for air release.

## ordering information

### catalog no. description

|               |                                                            |
|---------------|------------------------------------------------------------|
| <b>K88530</b> | Automated Air Release Value Analyzer, 115V 60 Hz           |
| <b>K88539</b> | Automated Air Release Value Analyzer,<br>220-240V 50/60 Hz |

### accessories

|                   |                       |
|-------------------|-----------------------|
| <b>K885-115-1</b> | Convection Oven, 115V |
| <b>K885-240-1</b> | Convection Oven, 230V |



K88530 Automated Air Release Value Analyzer

## specifications

Conforms to the specifications of:

ASTM D3427; IP 313; ISO 9120; DIN 51381; NF E 48-614

Temperature Range: Ambient to 75 °C (167 °F)

Electrical Requirements:

115V, 60Hz, Single Phase

230V, 50/60Hz, Single Phase

Included Accessories

Sinkers, 5mL and 10 mL

Integrated Balance

Integrated Circulator

Tubing and Fittings

Platinum Wire

Jacketed Test Vessel

Dimensions wxdxh,in.(cm)

24x23x34 (60.96x58.42x86.36)

Net Weight: 115 lb (53 kg)



85 Corporate Drive, Holtsville, New York 11742  
1-800-878-9070 (in u.s. only) TEL: +1 631 589 3800 FAX: +1 631 589 3815  
Email: [sales@koehlerinstrument.com](mailto:sales@koehlerinstrument.com) [www.koehlerinstrument.com](http://www.koehlerinstrument.com)

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[ask@labequip.com](mailto:ask@labequip.com)