

# APPARATUS FOR THE DETERMINATION OF OXIDATION CHARACTERISTICS OF INHIBITED MINERAL OILS ASTM D943 - IP 157 - ISO 4263, 12205

The apparatus consists of a benchtop steel case containing an aluminium thermostatic block with a series of jackets for the introduction of the oxidation cells and a water dispenser for the condenser refrigeration: both units with variable area flowmeters or with electronic mass-flow controllers available.



AD0943-304

- Enamel finished benchtop steel case.
- Aluminium block bath with wells for test tubes, 48 mm diameter and 365 mm deep.
- Stainless steel electric heaters.
- Microprocessor thermoregulator with built-in temperature display, 0.1°C accuracy on versions -1xx or 8.4" Panel PC running Microsoft Windows Embedded with colour touch-screen interface on versions -3xx.
- Probe: PT100 RTD. Regulation accuracy  $\pm 0.1^\circ\text{C}$ . Working range: from ambient to 150 °C.
- Safety device against overheating.
- Easy access control box containing all the electronics and electrical parts. Aluminium control panel with english written indications.
- Oxygen inlet manifold with variable area flowmeters (-1xx) or high precision mass flow controllers (-3xx), 0-4 l/h.
- Water inlet manifold with valve connections for the mushroom condensers.
- Water outlet manifold.
- n° 1 thermometer jacket.
- English written user manual. CE marked.
- For connection to 220V - 50/60Hz. Power consumption 1800 W (4 and 8-position units), 2500 W (12-position unit).
- Four, eight and twelve-place units available. Six-place unit on request.

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|------------|--|
| AD0943-104 | Four-place unit with variable area flowmeters. Dimensions (l x w x h): 700 x 600 x 1000 mm. Weight: 90 kg    |
| AD0943-108 | Eight-place unit with variable area flowmeters. Dimensions (l x w x h): 850 x 700 x 1000 mm. Weight: 130 kg  |
| AD0943-112 | Twelve-place unit with variable area flowmeters. Dimensions (l x w x h): 110 x 700 x 1000 mm. Weight: 160 kg |
| AD0943-304 | Four-place unit with mass-flow controllers. Dimensions (l x w x h): 640 x 430 x 1000 mm. Weight: 90 kg       |
| AD0943-308 | Eight-place unit with mass-flow controllers. Dimensions (l x w x h): 640 x 490 x 1000 mm. Weight: 130 kg     |
| AD0943-312 | Twelve-place unit with mass-flow controllers. Dimensions (l x w x h): 760 x 430 x 1000 mm. Weight: 160 kg    |

#### ACCESSORIES

|            |  |
|------------|--|
| AD0943-A00 | Winding fixture                          |
| CAL001     | PT100 simulator                          |
| CAL003     | Official Certificate for Pt100 simulator |

#### CONSUMABLES

|            |                                     |
|------------|-------------------------------------|
| AD0943-C00 | Test tube                           |
| AD0943-C01 | Mushroom condenser                  |
| AD0943-C02 | Oxygen delivery tube                |
| AD0943-C03 | Cell thermometer                    |
| AD0943-C04 | Syringe sampling tube               |
| AD0943-C05 | Methacrylate sampling tube holder   |
| AD0943-C06 | Sampling tube spacer                |
| AD0943-C07 | Catalyst coil                       |
| TA040C-N00 | ASTM 40C thermometer (+72°C/+126°C) |

Specifications may vary without notice.

**The apparatus includes the items listed aside the picture, accessories etc. should be purchased separately.**



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