

CHILLED WATER BATH for OXIDATION STABILITY of INSULATING OILS

- Recirculates Chilled Water to the Condensers
- Conserves Water
- Intended for High Volume Oxidation Testing

Laboratories with high volume of oxidation stability testing samples use large quantities of tap water to cool the reflux condensers. A more environmentally acceptable solution is to recirculate the cooling water such that the water exiting the last condenser is kept below 32°C. In addition, depending on location, tap water temperature may not be acceptable.

Model 65 is a refrigerated water bath of 30 gallons capacity capable of pumping 10°C water to up to 60 condensers. The flow rate is sufficient to maintain the exit water at the 60th condenser to be less than 32°C specified by the methods. Model 65 is a floor model mounted on casters. The bath temperature is controlled with a digital indicating controller providing bath temperature stability of ±1°C.

Model 16 is a bench top water chiller bath of 5 gallons capacity capable of delivering 10°C water to up to 24 condensers with water flow arranged in series. The flow rate and refrigeration capacity is such that the water exiting the last condenser does not exceed 32°C. Temperature control is provided by a digital indicating controller.



▲ Model 16

Also for Methods:

ASTM	D943, D2274, D4310, D4636, D4871, D6594
ISO	4263
IP	388
FTM	791-5307, 5308, 5321
DIN	51 587
NF	M07-047, T60-150



▲ Model 65

Model Y-20 is an electronic video recorder with a 6 inch color video screen storing data for transfer to a Windows based PC. These process values are saved in a data base format and may be used for further spread sheet analysis or transfer to a LIMS. Windows based proprietary software manages the above data and may be also used for configuration of the video recorder.

Sensors are provided for oxygen supply pressure, oxygen purity, bath temperature, and condenser water temperature. Alarms are configured to indicate deviation of any of the parameters outside predetermined limits. Oxidation tests are typically of long duration. Unrecognized failure in any of these parameters invalidates the results, requiring repeating of the test with a significant loss of time.

Oxygen Delivery System - Liquid oxygen handling and delivery systems as well as oxygen concentrators using room air to produce 99.5% purity oxygen gas are also available. Please inquire.