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Product Name :
Jacketed Vessel With Stirrer And Coil Apparatus

Product Code :
LBNY-0005-10200045



Description :

A comprehensive instruction manual describing how to carry out the laboratory teaching exercises in combined radiation and convection (free and forced) and their analysis as well as assembly, installation and commissioning is included.

K-Type thermocouples measure the vessel contents and the inlet and outlet temperature of both fluid streams (6 in total).

Comprises processing vessel with outer jacket, inner coil, variable speed stirrer and baffle.

Technical Specification :

The accessory consists of a jacketed vessel with the following features:

The vessel can be operated batch wise by simply filling to the overflow or with continuous feed of cold liquid to the base of the vessel, the excess liquid flowing from the overflow to drain.

The vessel consists of a stainless steel wall with PVC base and clear acrylic top. Alternatively, a stainless steel coil inside the vessel allows the cold fluid contained within the vessel to be indirectly heated from inside. A glass outer jacket allows the wall of the vessel to be surrounded with hot fluid for indirect heating from the outside.

An adjustable overflow allows the volume of liquid inside the vessel to be varied with a maximum capacity of 2 liters and a minimum of 1 liter.

Temperatures are measured using type K thermo couples with miniature plug for direct connection to the electrical console.

The vessel incorporates a variable speed stirrer and baffle arrangement to allow thorough mixing of the vessel contents when required.

Thermocouples are installed at the following six locations.

Vessel contents (cold fluid)
Hot fluid outlet from coil
Hot fluid outlet from jacket
Hot fluid inlet to jacket
Hot fluid inlet to coil
Cold fluid inlet to vessel.



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