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Product Name :
Steam to Water Heat Exchanger

Product Code :
ENGLABINGCAG6100005



Description :

Steam to Water Heat Exchanger

Technical Specification :

Visual demonstration of filmwise condensation and nucleate boiling.
Demonstration of the increase in Steam to Water Heat Exchanger effectiveness due to increasing the number of tube passes at constant flow rates.
Measurement of the effect of coolant flow velocity and the number of tube passes on pressure drop.
Investigation of the effect of increasing flow velocity and the number of tube passes on the overall heat transfer coefficient.
Investigation of the saturation pressure/temperature relationship for H₂O at low pressures.

Specification of Steam to Water Heat Exchanger

Steam To Water Heat Exchanger having consider its own 3 kW steam generator and four tube condensers, all within a single thick walled glass cylinder.
Complete with three interchangeable manifolds allowing single, double or four pass operation.
High quality Glass Reinforced Plastic, having an attractive appearance, and on which the following components are mounted.
Digital Thermometer: measuring steam chamber and condenser inlet and outlet temperatures. Resolution 0.1oC.
Differential pressure Manometer and Digital Display: measuring pressure drop across condenser.
Flow meters: including total water flow through condenser and water flow from mains. Ranges: One 10 to 90 cm³ s⁻¹. One 1 to 12 g s⁻¹.

Pressure Gauge: showing steam chamber pressure. Range: - 100 to + 100 kN m-2.

Safety Features: include steam chamber pressure relief valve, pressure switch and heater high temperature cut out. All electrical components earthed and fused.



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