

Product Name :
Comparison Of Various Heat Exchangers

Product Code :
DM359



Description :

Comparison Of Various Heat Exchangers

Technical Specification :

Comparison Of Various Heat Exchangers
Investigation and comparison of five different heat exchanger types
Parallel flow or counterflow can be set via valves
Flow rates can be adjusted via valves
Electromagnetic flow meter for hot and cold water
Portable differential pressure sensor for water
Fixed differential pressure sensor for air, to determine the volumetric flow rate
Digital displays for temperature, pressure differences and flow rate
Hot water generator and water chiller available
Software for data acquisition via USB under Windows 10

Technical data:

Plate heat exchanger, (water-water)
Number of plates: 10
Heat transfer area: 0,26m²
Output: 15kw
Tubular heat exchanger (water-water)
Heat transfer area: 0,1m²
Shell & tube heat exchanger (water-water)
Output: 13kW

Finned tube heat exchanger (water-air)
Heat transfer area: 2,8m²
Fan Flow rate: 780m³/h
Fan Pressure difference: 430pa
Stirred tank with double jacket and coiled tube (water-water)
Double jacket heat transfer area: 0,16m²
Coiled tube heat transfer area: 0,17m²
Measuring ranges
differential pressure:
1x 0...10mbar (air)
1x 0...1000mbar (water)
Flow rate: 2x 0...3m³/h
Temperature: 10x 0...100°C
230V, 50Hz, 1 phase

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