

**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: 0,26m<sup>2</sup>  
Output: 15kw  
Tubular heat exchanger (water-water)  
Heat transfer area: 0,1m<sup>2</sup>  
Shell & tube heat exchanger (water-water)  
Output: 13kW

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

## Naugralabequipments

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