

Product Name :
Cross Flow Heat Exchanger**Product Code :**
ELABBAT0014 LAB ENGINEERING**Description :**

Cross Flow Heat Exchanger

Technical Specification :

Cross Flow Heat Exchanger Technical Description The benchtop unit mainly comprises a vertical air duct. A fan draws the air through the duct. Interchangeable heaters dissipate heat directly into the airflow. The following heater elements are included: pipe, pipe bundle and finned pipe. To investigate the effect of the flow in the pipe bundle, the heater insert can be positioned in different pipe rows. Electronic sensors are used to take measurements. The measured values are indicated digitally on the display unit and transferred directly to a PC. A data acquisition card for the PC with easy to use software is included. The software enables, among other aspects, the measured data to be recorded and stored. The flow rate, Reynolds and Nusselt numbers are calculated, temperature-time relation and the dependence of the Nusselt number on the Reynolds number can be demonstrated graphically.

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