

Product Name : Automated Advance Heat Transfer Rig	Product Code : NLAB-TECHNICALAB33010
Description : Automated Advance Heat Transfer Rig	
Technical Specification : Automated Advance Heat Transfer Rig Implementation of a heat exchange. Analysis of heat exchange performances. Possible Experiments: Determination of : Heat balances. Global heat transfer coefficients Flow regimes Study of the effect of transfer mode (con or counter-current). Study of the effect of hot and cold fluid supply. Comparison of the efficiency of 4 types of heat exchangers. Technical specifications 1 coiled exchanger 1 concentric exchanger 1 plate exchanger with brazed plates 1 Shell & tube exchanger 21 stainless steel manual valves 5 pressure gauges 1 electronic flowmeter (cold circuit) 1 electronic flowmeter (hot circuit) 1 stainless steel pneumatic valve for the cold water flow 1 stainless steel pneumatic valve for the hot water flow 2 converters P/I 1 electrical cabinet 16 temperature probes 2 temperature displays with a 2 positions switch and a 4 positions switch and a communications card type RS485 4 temperature displays with RS485 output and one RS485/RS232 converter 2 flowmeters displays The exchangers are out of stainless steel The external grills of the exchanger with serpentine and the multitubular exchanger are out of glass.	

The external grill of the monotubular exchanger is out of stainless steel.
The circuit is carried out in stainless steel piping and is assembled on welded stainless steel frame.
A technical manual is delivered with the bench.
A supervision software designed on Labview allowing to configure remotely the regulators, to select the temperature displays and to control the flow according to the selected exchangers and the transfer mode.

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