

Product Name :

Water To Air Heat Exchangers

Product Code :

SLE/EA/20

**Description :**

- Water to Air Heat Exchanger mirrors air heating and water cooling applications.
- An electrically operated valve opens to let water in to fill the tank.
- The air exits the duct through a handoperated slide-valve.
- The tank has protection in case of over temperature, low water level and overfilling.
- A precision needle valve and flow meter control and measure the water flow rate.
- Students use the orifice and valve to measure and control the air flow.
- Thermocouples at the water connectors and in the air duct measure hot and cold inlet and outlet fluid stream temperatures.
- For safety and simplicity, the heat exchangers have selfsealing quick connectors for their water supply.
- The cooling air passes down a vertical duct containing an orifice plate which connects to a differential pressure transducer.
- The air then passes through a fixed speed centrifugal fan and along a horizontal duct containing the heat exchanger.
- It fits on a bench top and includes a hot water supply, a cooling air duct and all instruments needed for tests on cross-flow heat exchangers.
- The heat output of the design produces good results without greatly affecting the temperature of a reasonable size classroom or laboratory.

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