



CONDENSATION PROCESS

RH 072

Description:

When steam comes in contact with a surface whose temperature is lower than the saturation temperature of the steam, the steam condenses, and the condensate flows down due to the force of weight. According to the wettability of the surface, condensation occurs in two forms, droplet or film. If the liquid completely wets the solid surface and a layer of liquid completely covers the surface, film condensation occurs. But if the liquid created on the surface is not uniform and only drops are scattered on the surface, droplet condensation occurs. This unit enables the simultaneous observation of condensate on the condenser. This unit consists of a glass container, a heater that is installed inside the chamber and fluid is poured into the glass chamber. In order to observe film and dropwise condensation, two condensers are installed vertically in the chamber.

Specifications:

- Plexiglass container
- Heater with adjustable power system
- Temperature measurement sensor
- Digital temperature indicator
- Flow measurement by rotameter
- Condensers
- Pressure gauge
- Pressure switch
- Safety valve
- Electrical control panel with displays and switches
- Piping system with valves and fittings
- Wheeled carbon steel structure
- Installation and training video included
- Instructions manual included
- 10-year warranty

Note: Direct contact with the sales department is required to confirm the last updated technical specifications and pictures.

Applications:

1. Visualization of the condensation process of water in a transparent tank
2. Investigating heat transfer due to condensation
3. Effect of pressure and temperature on condensation
4. Determining heat transfer coefficient

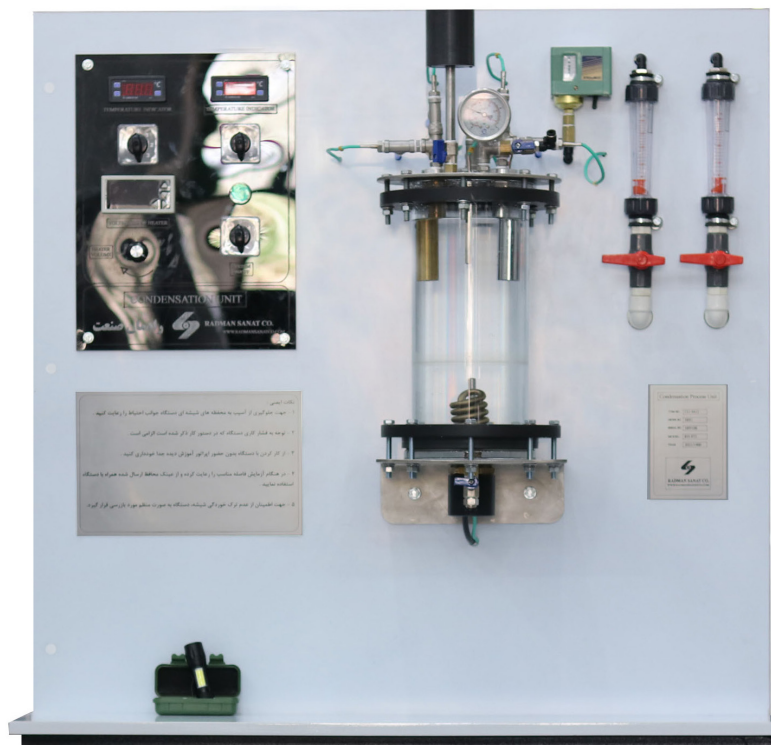


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Required For Operation:

- 220V Single Phase Electricity
- Urban Water Supply
- Urban Water Drainage
- Distilled Water
- Desirable Temperature ($^{\circ}\text{C}$): 10-30
- Relative Humidity: 15% - 80%



Dimensions (L*W*H) mm:950×500×900

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