

Product Name :
Single-Split Type Cooling / Heating Air Conditioner Training System

Product Code :
AIR-LABAST-005



Description :

Single-Split Type Cooling / Heating Air Conditioner Training System, We are manufacturer, supplier, exporter and solution provider in quality Single-Split Type Cooling / Heating Air Conditioner Training System

Technical Specification :

Single-Split Type Cooling / Heating Air Conditioner Training System
Due to its lower level of indoor noise and high flexibility of installation, Split Type Air Conditioner becomes more and more popular in nowadays. KR-212 itself is a real split type air conditioner specially designed for teaching purpose. Both indoor and outdoor units are installed on the demonstration stand so that students can learn the operating principle of both units at the same time. User can easily observe and record the behavior of both units while it is running under different setup by remote controller, such as temperature, fan speed, or operating mode (cooler, heater, dehumidifier...)
Four valves are intentionally designed to be located at the front panel of the demonstration stand to allow students handily attach the connection pipes (gas pipe and liquid pipe) between indoor and outdoor units. This helps students further to realize how Indoor and Outdoor Units cooperate with each other as well as to understand the refrigerant path during its circulation cycle.
Students can use the built-in gauges/meters and additional measurement tools to record the experimental data and further to draw the Psychrometric Chart and Mollier Diagram so as to understand the

performance of this air conditioner. 1. Learning components in split type air conditioner

2. Installation of split type air conditioner

3. Measuring and collecting experimental data

4. Drawing Mollier Chart

5. Application of Psychrometric Chart

6. System fault determination

7. Calculating system performance

8. Analysis and discussion- The operation of the system is based on a real split-type air conditioner including one indoor unit and one outdoor unit installed on a same stand.

- The system can be operated as either cooler or heater modes.

- Provide 4 fixing valves at the front panel to let students handily install the connection pipes (gas pipe and liquid pipe) between indoor and outdoor units.

- Provide voltmeter and ammeter at the front panel to monitor instant system power.

- Provide high and low pressure gauge at the front panel to monitor instant inlet/outlet pressure of the compressor.

- Both indoor and outdoor units are powered by an isolated power supply with over load protection.

- The circuit diagram of the system and a Mollier Chart are clearly printed on the front panel for quick reference.

- Both indoor unit and outdoor unit are installed on an aluminum stand with wheels for easy movement.



Astra Scientific

www.astrascientific.com, **Email:** info@astrascientific.com

Address: K-88, 20th Street, Annanagar, Chennai, India – 600040 **Phone:** +91-8860605265