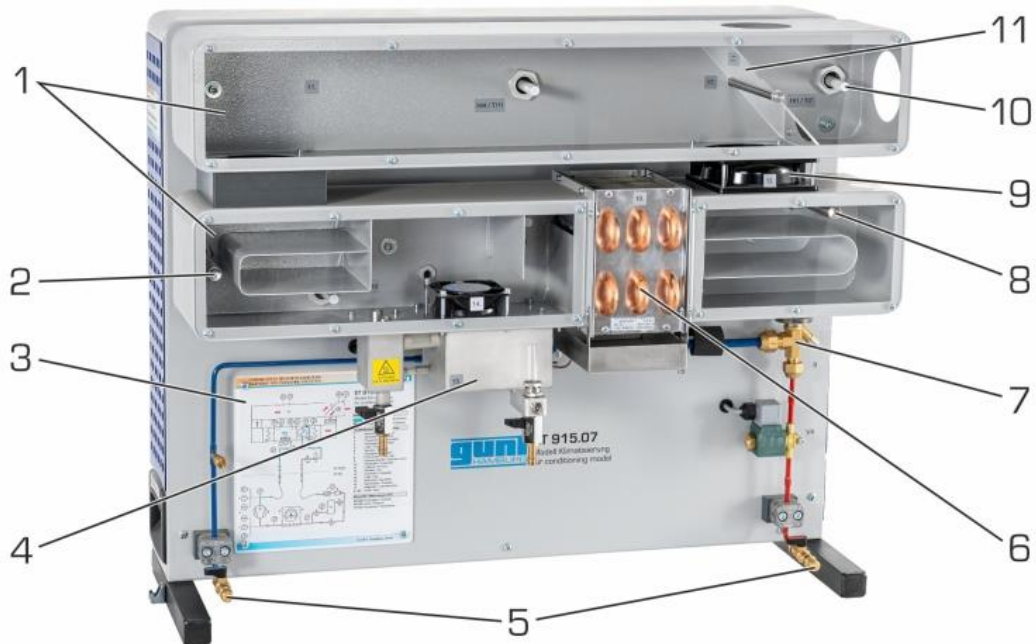


AC TEST RIG

Photo of Instrument:



Instrument Name	ET 915.07 Air conditioning model
Instrument Model & Serial No.	ET 915 ET915.07
Instrument Make	Gunt Hamburg,
Category of Instrument	Characterization and Testing
<i>Description of Instrument</i>	<p>ET 915.07 is part of the HSI training system for refrigeration and air conditioning technology. In combination with the base unit ET 915 the operational model of a full air conditioning system is created. The model is plugged onto the base unit, secured using fasteners and connected with refrigerant hoses to become a complete refrigeration circuit for the air cooler.</p> <p>The room climate is created by the interaction of air temperature, heating temperature and air humidity. The purpose of room air conditioning is to shape the room climate in accordance with the requirements of people or sensitive goods. This model introduces the operation of an air conditioning system and the recirculating air and outer air operating modes.</p>

Department of Mechanical Engineering, NIT Calicut

	<p>The model ET 915.07 includes two air ducts with transparent front. The top air duct serves as climatic chamber whilst the bottom air duct contains the air cooler, two electric air heaters and a steam humidifier. A fan between the two air ducts recirculates the air. A motorised butterfly valve in the top air duct allows a change between outer air and recirculating operation. Dependent on the switching of the two air heaters, the air cooler and the humidifier, the air in the duct system can be cooled, heated, humidified or dehumidified.</p>
<p>Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)</p>	<p>complete model of a full air conditioning system</p> <p>heating, cooling, humidifying and dehumidifying</p> <p>outer air and recirculation operation possible</p> <p>component operation and fault simulation via the GUNT software</p>
<p>Application of Instrument (Limited to Major 4 or 5)</p>	<p>full air conditioning system and its main components</p> <p>heating and cooling in the h-x diagram</p> <p>humidifying and dehumidifying in the h-x diagram</p> <p>outer air and recirculating operation</p> <p>fault simulation</p>
<p>Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions</p>	

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Types of Analysis / Testing	
Faculty In-Charge Name / Email / Contact	Dr. T. J. Sarvoththama Jothi tjsjothi@nitc.ac.in 0495 228 6419
Technical Staff Name / Email / Contact	Abhilash A 9037283029
Location of Instrument	Thermal Science Lab
Other Details	

User Charges:

S.NO.	Type of Analysis / Testing	Internal - within Department of NITC	Internal - Other Departments NITC	External Academic Educational Institutes	National R&D Labs	Industry
1						

Slot Booking and Payment Work Flow: