**AC Test Rig**

|  |  |
| --- | --- |
| https://lh7-rt.googleusercontent.com/docsz/AD_4nXcruBWQHVAwsMbc7xzZKFUVFsLC3MMTwpNFbLYaosXYlbrR1irRYdU2IzVN-4WzpMH_wFMftede9EyV7dQFWMlMkP6ldmj8ISPzHc2-PDZy9YeTgWrmsWWQswhBs4MNg9XsZZ14sBz5C7tJObWO-3qjc4c0TaYq9dOZNLaPznLQjMDGITXXJr0?key=sHNt7VPBRc0S5flSSnA2N9JD | **Name of the equipment:** AC Test Rig**Make & Model:**Gunt Hamburg & ET 915 ET915.07**I-Stem Registration ID-** **3224900** **Category of Instrument**Educational training system**Types of Analysis / Testing**Heating and Cooling processesHumidification and Dehumidification**Application:** Education Training in HVAC SystemsThermodynamic Process Analysis**Description of Instrument**The GUNT Hamburg ET 915.07 Air Conditioning Model is an educational training system designed to simulate and analyse the operation of a full air conditioning system. It is part of the HIS training system for refrigeration and ac technology. |

**Booking Details**

|  |  |
| --- | --- |
| **Book through I-STEM:** <https://www.istem.gov.in/>**Slot Booking Link**[I-STEM Slot Booking link for External User](https://www.istem.gov.in/equipment-info/24900/AC-Test-Rig) | **Booking available for**Internal & external**Requisition form for** [Internal](https://randc.nitc.ac.in/pdf/instruments/med/20.%20Internal.pdf)[External](https://randc.nitc.ac.in/pdf/instruments/med/20.%20External.pdf) |

**Contact Details**

|  |  |  |
| --- | --- | --- |
| **Faculty In-charge:** Dr. T. J. Sarvoththama Jothi**Email ID:**tjsjothi@nitc.ac.in**Phone number:**0495 228 6419 | **Technical Staff:** Abhilash Aabhilasha@nitc.ac.inDhaneesh D Cdhaneeshdc@nitc.ac.inAthulkrishna K R athulkrishnakr@nitc.ac.in | **Department**MED**Office Email ID**medoffice@nitc.ac.in**Location**Thermal Science Laboratory, Department of Mechanical Engineering**Lab Phone No**0495-2286449 |

**Features, Working Principle and Specifications**

**Contact Details**

|  |  |
| --- | --- |
| **Features of the equipment*** It features a complete air conditioning cycle with components for heating, cooling, humidifying, and dehumidifying air in a closed-loop system.
* The system supports interactive learning with fault simulation, h-x diagram plotting.
 | **Unique features/Measurement capabilities, if any*** Integrated h-x Diagram Software Interface
* Fault Simulation Functionality
 |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)*** Complete Air Conditioning Circuit
* Transparent Air Ducts
* Sensor-Equipped for Real Time Monitoring
* Airflow control & Mixing
* PC- Based Data Acquisition & Software Integration
 | **Measurement/Sample specifications:**  |

**Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions**

|  |
| --- |
| **User Charges Rs. (GST Extra)** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Details** | **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** |
| NA | NA | NA | NA | NA |
| NA | NA | NA | NA | NA |