

<b>Product Name :</b> Astra Scientific General Cycle Air Conditioning Test Rig	<b>Product Code :</b> Refrigeration0001
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**Description :**

Astra Scientific General Cycle Air Conditioning Test Rig

**Technical Specification :**

The A.C. test rig works on simple vapour compression refrigeration cycle using R-134a as a refrigerant. The system is fabricated such that student can study all the air conditioning processes. It is also useful to understand working of all the components of system, their performance and control etc.

All the components are mounted on the display board, so that students can observe their working easily.

**TECHNICAL SPECIFICATIONS:**

<b>CAPACITATED TEST CONDITIONS</b>	

<del>COMPRESSOR</del>	SEALED. MAKE: EMERSON CLIMATE TECH.OR ANY EQUIVALENT MAKE.
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<del>CONDENSER</del>	CONVECTION AIR COOLED.
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<del>CONDENSER FAN</del>	
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<del>EVAPORATOR</del>	
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<del>EXPANSION DEVICE</del>	
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<del>EVAPORATOR</del>	CONVECTION AIR COOLED.
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<del>EVAPORATOR</del>	AXIAL FLOW TYPE
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CONDENSER OR HEATER. REHEATER	
FRODDER	
REFRIGERANT	
RECORDER / OR INDOSS / OR ANY EQUIVALENT MAKE.	
TEMPERATURE FACILITY WITH DIGITAL DISPLAY.	
PRESSURE TYPE PRESSURE GAUGES.	
SEASOROMETER PROVIDED.	
TEMPERATURE MEASUREMENT BY SLING PSYCHROMETER.	

	AIR FLOW MEASUREMENT METER.	
	SUPPLY VOLTS, 50 HZ, 1 PHASE.	
	INPUT POWER	
	RATED CURRENT	
	PROVIDED FOR COMPRESSOR AND HEATER.	
	ENERGY METER PROVIDED FOR COMPRESSOR	
	MATERIAL 12 MM THICK CRCA	

POWER RATING

**LIST OF EXPERIMENTS:**

- To evaluate the tonnage capacity of the air conditioning system by enthalpy difference method.
- To evaluate actual and theoretical C.O.P. of the system.
- To plot the refrigeration cycle on P-H & T-S charts.
- To plot the psychometric processes on psychometric charts.



**Astra Scientific**

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