## Product Name :

Product Code : NLAB-ENGINEERINGLB34011

Window Air Conditioner Test Rig



## **Description**:

Window Air Conditioner Test Rig

## **Technical Specification :**

## **PRODUCT DESCRIPTION:**

#### The Window AC test rig is designed

and manufactured such that the students can understand construction and working of a window type air conditioner and conduct the trial on it to evaluate performance of the same. The window AC is fixed in a rigid angle frame, with its cover cut half open to reveal the internal parts of the AC. The required pressure and temperature tapings are drawn for measurement of pressures and temperatures at salient points. Energy meter is provided for recording compressor energy consumption. A sling psychrometer is provided for measurement of inlet and outlet Dry-bulb & wet bulb temperature. With the help of manometer, velocity of air and consequently the flow rate of air can be determined.

## **TECHNICAL SPECIFICATIONS**

CapaRitat rated test conditions	*
Rotapresser Hermetically seal	ed.
Eomodehsenvection air cooled	
Cricketton on the	
<b>G</b> xiadelosetyfær.	
Everent atom vection air cooled.	
Evenprintagiat fape	
the contraction retries	
Mioieercitilærrsieve type.	
ExampálizzijonTudævice	
Real@gerant	
Serve Beautcheometer for air tem	peratures & Digital Indicator for refrigerant
temperatures.	, , , , , , , , , , , , , , , , , , ,
By brocitioned tube manometer	
Pressure gauges 2 Nos at suc	tion & discharge
	uon & uischarge
Standing Volts 50 Hz 1 phase	
\$2ф⊉¥0 Volts, 50 Hz, 1 phase	
\$20∲p2l¥0 Volts, 50 Hz, 1 phase ከβμለγλower	
inβμtψower	
რემს twower Radedinpusrent	
inβμtψower	
რემს twower Radedinpusrent	
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რემს twower Radedinpusrent	
nalednpærent Ralednpærent Prærigledniætecompressor	

## LIST OF EXPERIMENTS:

• To determine Tonnage capacity of the Window type Air Conditioner by enthalpy

difference method.

- To determine actual C. O. P & theoretical C. O. P of the cycle.
- To plot operating cycle on P-H chart.

# Naugralabequipments

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