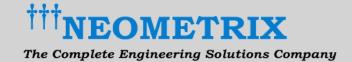
Pneumatic Test Rig

VACCUM SYSTEM



Aircrafts have varying atmospheric pressure conditions as altitude differs. We can create different altitude conditions inside a closed chamber by means of a vacuum pump and set of modulating and flow control valves. This Test Rig was designed for the ground testing of Aerospace Units. The test unit (UUT) will be placed between two chambers one of which is simulating cabin and other is simulating altitude chamber.



VACCUUM TEST RIG SPECIFICATIONS

Sl. No.	System	Specification
1	Working media	Compressed Air, Nitrogen
		Enriched Air
2	No. of supply lines	Two set of pressure lines; One
		line to supply air to UUT &
		Other line to modulate the
		flow (in Kg/min) values
3	Flow rate	Up to 20 kg/min
4	Power Supply	220-240VAC at 50-60Hz
		Frequency
5	Operating Pressure	Up to 12 Bar(g) from HAL
		provided air source
6	Ambient Temperature range	Normal Atmospheric
		Temperature
7	Flow meter	Digital Indication, Direct
		Inline Measurement
8	Pressure Relief Valve	Automatic pressure relief
		valve, Required to
		automatically relieve the
		pressure if valve upstream line
		pressure exceed the set value
		@ 2 Bar
		(The value is settable)
9	Vacuum Chamber assembly	MOC: Stainless Steel
10	Pipes and Fittings	MOC: Stainless Steel; ANSI
		B 16.5 CLASS #150
10	On/Off Valves	2/2 way, Bi stable, inline
		installation
11	Modulating Control Valves	Line installation with
		accessories, Control from
		Operating Panel
12	Pressure Transmitters	0-4 Bar(Abs) Range and 0-16
		Bar(g) Range
13	Differential Pressure	Measuring differential
	Transmitter	pressure range: up to 500mbar
14	Manometers	Water filled and Mercury
		filled. For Vacuum and
		Normal Pressure measuring
		applications
15	Vacuum Pump With Motor	30 HP Pump and motor. 3-
	and VFD	Phase Squirrel Cage Motor
		415 VD, 50 Hz, 42 A Supply