

## High Pressure Test Rig

### About-

HPR Test Rig for High Pressure Air/Helium Circuit Leak testing. Whole system is divided into two parts:-

- Air Drive Section: - Dry & Filter Air @ 4 bars is required for drive the HPR Test Rig.
- Air/Helium inlet Section: - Air inlet section comprises of 5 micron High pressure filter to insure the inlet Air purity to ensure system should work only at more than 20 bar pressure to safe guard the Haskell booster
- Air Boosting Section: This section comprises of Haskell Gas Booster to boost the available Industrial Air up to 350 bars.Haskell will stop boosting at any more pressure at more than 350 bar, have one pressure relief valve set at 300 bar for further safety. There is an Air cylinder of 6 liter volume which is available for pressurized air required for testing
- Air Outlet Section: This section comprises of all the safety & controlling components of the HPR Test Rig along with measuring devices to measure performance parameters of the HPR Test Rig. The Unit if remotely controlled via pneumatic Air and various safety interlocking are there for any probability of an accident.
- E.Step of Pressurization: To pressurize the Air cylinder make sure that the air at the air drive of the booster is available (i.e. about 6 bars).Fill the cylinder up to 300 bar of pressure.

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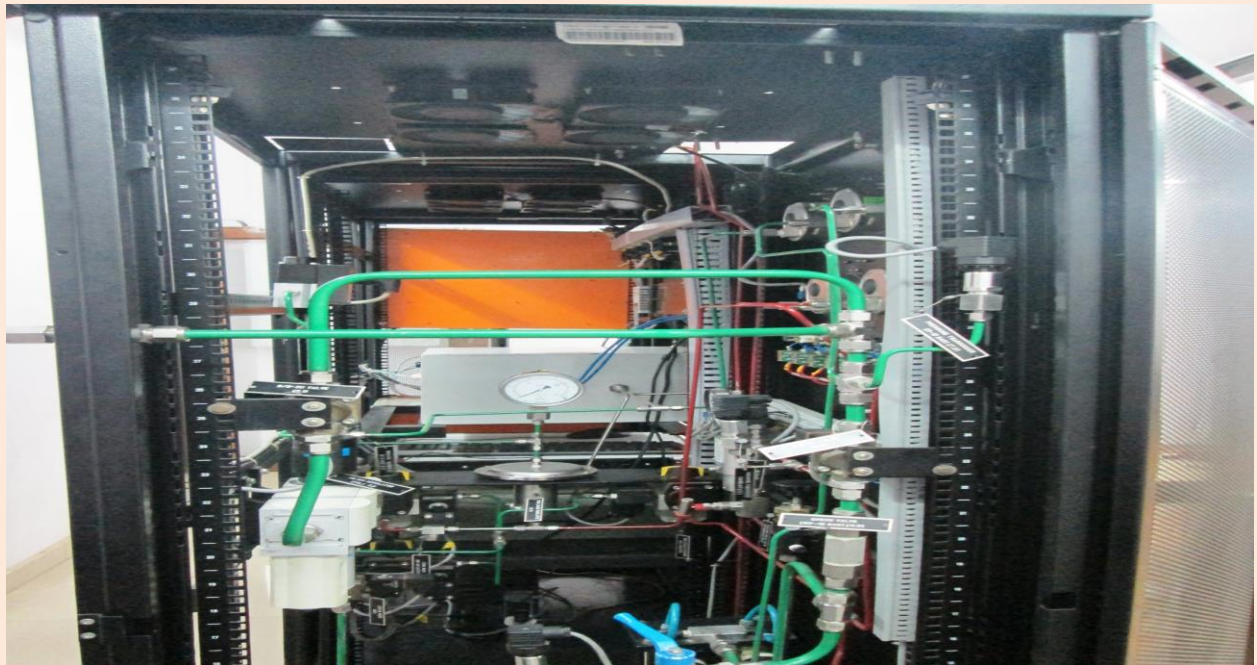
**Neometrix Engineering Private Limited**

E-148, Sector-63, Noida India 201301

Email – [contact@neometrixgroup.com](mailto:contact@neometrixgroup.com), Contact No.- +91-0120-4500800, 7777-876-876

## Technical Specification-

S.no.	Name of Characteristic	Value of Characteristic
1	Drive Pressure (Air)	4 bar Min.
2	Purity of Drive Air	5 Micron
3	Room temperature required (Customer Scope)	20 degree
4	Inlet Air Pressure	10-260 bar
5	UUT Leakage	15cm <sup>3</sup> /hr
6	Output Pressure Range	2.9 to 4.5 Bar
7	Automatic Start stop of Gas Booster For low Pressure Testing	Gas Booster stop at below 20 bar Inlet Pressure & stop above 300 bars
8	Manual Pressurization	Manual Pressure regulation up to 310 bars
9	SS tube Coil	6 LTR storage cylinder @ 300 Bar
10	Working Media	Air



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## Application-

- HPR Test Rig for High Pressure Air/Helium Circuit Leak testing machine is use for Tata motor industry.



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## Key Features-

- Air Drive Section: - Dry & Filter Air @ 4 bars is required for drive the HPR Test Rig.
- Air/Helium inlet Section: - Air inlet section comprises of 5 micron High pressure filter to insure the inlet Air purity to ensure system should work only at more than 20 bar pressure to safe guard the Haskell booster.
- Air Boosting Section: This section comprises of Haskel Gas Booster to boost the available Industrial Air up to 350 bars. Haskel will stop boosting at any more pressure at more than 350 bar, have one pressure relief valve set at 300 bar for further safety. There is an Air cylinder of 6 liter volume which is available for pressurized air required for testing.

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