

POWER PACK FOR AIR CONDITIONER TEST BED

The increased competition in Air Conditioners market forces the manufacturer for providing the specification of product so as it performs in the desired operating conditions. The most primary is the performance at higher temperature and the same is achieved by doing proper selection in the components and subsequent test. Another operating condition is the Supply Voltage and Frequency. As the RPM is dependent on the Frequency and voltage, operating an Air Conditioning at various voltages and frequency is a challenge to the manufacturers.

Looking to above Suvik has developed a Novel System solution for Home Air Conditioner manufacturer for testing the unit at various operating voltage and frequency. The system is called “**POWER PACK FOR AIR CONDITIONER TEST BED.**” This system is available in various rating in terms of KVA and output voltage and frequency variation desired. A specification of a sample system is as under:

Input Supply: 415V, 3-Phase, 50 Hz +/- 10%

Output Supply: 140-270V adjustable, 1-Phase, 45-60 Hz adjustable.

Rating: 7.5 kva, 10kva, 15 kva or as desired.



Photo showing Power Pack for Air Conditioner Test Bed

Advantages:

1. Voltage to the AC unit under test is independent adjustable.
2. Frequency to the AC unit under test is also independent adjustable.
3. Performance of AC unit at any operating voltage and frequency can be evaluated by manufacturer.
4. Customization is possible for making it more flexible.