



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY  
MATERIALS MANAGEMENT DIVISION  
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### **Technical Specification for Speed Vac-Vacuum Concentrators**

- A. Vacuum concentrator is a machine with a rotor which uses vacuum to evaporate solvents and concentrate samples at high speed.
- B. Provides rapid and efficient concentration with a wide variety of solvents like Acetone, Chloroform, Ethyl acetate, Hexane, Methylene chloride, methanol, acetonitrile w/ 0.1% TFA, ethanol, water, buffers, Ammonium hydroxide (oligos) and other aggressive solvents used in metabolomics, or for DNA and biological samples with different capacities.
- C. Selectable programs by application and Can be modified and stored Auto and manual run selector
- D. User-friendly interface which allows use of at least 3 quick start programs and option to save up to at least 8 or 9 customized programs
- E. Number of Preset program – 3
- F. Number of user defined program – 9
- G. Lid Type should be Epoxy coated Aluminum lid
- H. Lid Lock indicator should be there for Safety which enables heated glass lid helps reduce drying times and prevents condensation.
- I. System should have the preheat button
- J. Sample Protection from Heat: Capability to maintain chamber temperature as low as -4 degree C ensures sample integrity and makes this product ideal for heat sensitive samples.
- K. Heat time Setting enabling longer time like 1 min to 9 hours 59 minutes or longer

- L. Run time Setting enabling longer time like 1 min to 9 hours 59 minutes or longer
- M. Data integrity and transfer ability to download data from a USB port.
- N. Has digital timers for both heat and run time, which can be set independently. Microprocessor controlled for fully automated,
- O. Chamber bowl is coated in Teflon; resists corrosion from; can be cleaned with common radioactivity rinses without corrosion.
- P. The instrument should have a deep vacuum oil pump for efficient concentrations of the solvents.
- Q. The instrument should have chemical trap to avoid any solvent entering in the vacuum pump along with the cartridge for the vacuum pump. Additional 2 Cartridges should be provided with the systems.
- R. UL listed to U.S. and Canadian requirements. CE marked.
- S. Warranty of the instrument 1 year and 2 years free servicing.**
- T. The instrument must have all ISO and IEC safety CE certified
- U. Copies of all certifications and reports to be provided to buyer on demand at time of supplies

### **Additional Parameters**

- A. Demo of machine should be arrange in IIT or in Mumbai if require before placing order.
- B. Service Centre should be in Maharashtra and Service team should be located in Mumbai for Immediate response if any breakdown.
- C. We need a well-tested and validated standard equipment and not custom-made equipment.
- D. The equipment should come with a certificate of analysis and conformity.
- E. The vendor needs to provide the address of certified and authorized service center for the quoted equipment in Mumbai.
- F. Printed brochure for the standard unit with specifications.
- G. List of at least 15 Indian Installations and 20 global installations of the quoted instrument and description of the users with details.**
- H. OEM Authorisation Certificate is required.
- I. The vendor needs to certify that the quoted instrument is complete and no additional accessories should be required for full functionality of the instrument.