



KERALA UNIVERSITY OF FISHERIES & OCEAN STUDIES
കേരള ഫിഷറീസ്-സമുദ്രപഠന സർവ്വകലാശാല

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No.GA 7/8140/2022

Date: /12/2022

e- TENDER NOTICE

E- tenders are invited for the Supply of “ Rotary Evaporator Vacuum pump and Recirculation Chiller under MoES Reach out Project, KUFOS, Panangad.

The Tender should be submitted as e- tender in the e- procurement portal of Kerala Government with detailed specification, Tender fee of Rs.1900/- and EMD of Rs.9,500/-, by means of e- Payment. The GST amount of the tender fee @18% should be remitted to the GST department directly by the bidder. More details will be available in the Office of Dr. Radhika Rajasree S R, Professor & Head Dept. of Fish Processing Technology, KUFOS Panangad, on all working days with the permission of undersigned. Our GST Regn. No. is: 32AAAGK0031QIZL.

All the terms and conditions applicable to University/Government quotations/Tenders are applicable to this Tender also. Right to accept the Tender in full or in part or to reject without assigning any reason is reserved to the undersigned.

REGISTRAR

To : Firms/ Programmer to Publish on the Website

Copy to: Dean FFS/ Dr. Radhika Rajasree S R, Head , Dept. of FPT through Dean FFS/ SF/ Spare

Specification For Rotary Evaporator Vacuum Pump and Recirculation Chiller

- Operating Voltage / Frequency: 220-240 V, 50 Hz
- Heating Power Consumption: 1300 W
- Motor Lift
- System should have 5” color touch pictogram display for controlling the entire system including vacuum & chiller temperature
- Parameters should be entered through touch display or knobs and desired function of the knobs can be set by user
- System should have integrated expandable solvent library for adjustment of vacuum.
- System should have provision to save processes with ramp function as favourites.
- System should have the data log function and save process parameters.
- The system should accommodate 50 ml to 5000 ml with single joint size.
- The system should have Rotation Speed from 10-280rpm





- The system should have Separate knobs for heating bath and rotation
- The system should have Locking facility for set temperature, rotation speed and Vacuum to prevent accidental change in set conditions during process
- The system should indicate Stand-by mode with display of residual heat for higher safety
- Vacuum Seal should be highly resistant material and durable PTFE Vacuum seals for many years of continuous operation.
- The system should have IP42 Detachable panel to safeguard all electronic components against splashes and thermal damages.
- The system should be supplied with Detachable Panel for holding device allows quick and easy operation even outside closed fume hoods.
- System should have Universal heating bath for oil & water from ambient to 210°C with accuracy of $\pm 1^\circ\text{C}$
- Bath volume should be more than 4 Litres.
- System should have Protection Class IP 67 power cable to protect the heating bath from short-circuits & corrosion.
- System should have heating bath metal base support to avoid instability.
- System should have Clamping sleeve to allow easy removal of vapor tube from drive.
- System should have Vertical condenser with 1400cm^2 surface area with indication of maximum condensation level.
- System should have Grease free ventilation cap for maximum tightness and avoid glass breakage.
- Auto solvent filling provision should be available
- Automatic evaporation dynamic mode should be available for auto distillation
- System should be supplied with 1000ml evaporation flask one number and 1000ml Receiving flask one number
- CE,ISO certification

Vacuum Pump

- Two stage chemical resistance diaphragm pump
- Suction Capacity at least $2.0\text{m}^3/\text{hour}$ and efficiently work with two Rotary Evaporator
- Final vacuum 5 ± 2 mbar for quicker drying of samples
- Power Input 180W
- CE certification

Recirculation Chiller

- Operating Temperature Range -10° to ambient
- Temperature Accuracy $\pm 0.5^\circ\text{C}$
- Cooling Capacity 600 watts @ 20°C and efficiently support two Rotary Evaporator simultaneously.
- Reservoir Capacity 4 to 8Ltrs
- Pump Flow rate should be 20L/Min or more and more than 1 bar Pressure for

Proper Circulation



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<http://www.kufos.ac.in/>
EFLrD-pIE-ocjFH-UsmrN



KUFOS HQRS, Panangad, Ernakulam

- Large LED display of temperature.
- Noise Level Should be less than 70 dBA
- The system should be Air cooled Cooling
- Automatic start and shutdown functions, Liquid level indication.
- The system should meet the Protection Class standard IP 32
- Power supply Requirements 230V/50Hz
- Necessary tubing, fitting accessories to be supplied from the Original equipment manufacturer
- The above Equipments should be CE Certified.
- All the above components should be supplied from single manufacturer
- Vendors having service Centre in Kerala, is preferable

Warranty - Three Years from the date of installation of the equipment.