



Advanced Production Unit of Therapeutic Radiopharmaceutical Ingredient

*Improved safety and 50%
reduction in production time*



Industry

R&D Laboratory, Radiopharmaceutical
Application Trials



Client Summary

Our client is India's premier nuclear and multi-disciplinary research organization, pivotal in advancing the nation's nuclear program and its peaceful applications. Known for groundbreaking research in nuclear science, chemical engineering, radiology, and applications in health, food, medicine, agriculture, environment, and more, they stand at the forefront of fundamental research areas.

System Key Points

- ✓ **Radioactive Fluid Handling:** Utilizes a combination of vacuum and positive pressure for fluid transfer.
- ✓ **Specialized Equipment:** Includes agitation, heating, filtering, and a specially designed reactor for handling milliliters of radioactive fluid.
- ✓ **Automation:** Fully automated, remotely operated processes for 2 ml capacity, ensuring precision and safety.

Challenges

- ▶ **Radioactive Material Handling:** Safe management of hazardous materials.
- ▶ **Automated Transfer Process:** Implementing an automatic system to minimize human intervention.

Benefit to Customer

- ✔ **Accurate Automation:** Ensures precise transfer and filling, enhancing operational efficiency.
- ✔ **User-Friendly Interface:** Eliminates the need for skilled operators, simplifying process management.
- ✔ **Efficient Batch Processing:** Integrated heating, cooling, and filtering for reduced batch times.
- ✔ **Recipe Flexibility:** Automation allows for multiple recipes, facilitating rapid trial conclusions.


About Instron Technologies

With operations in India and Canada, Instron Technologies is a leader in Process Skid Plants, Digital Factory Solutions, and Test Bench Systems. Committed to sustainability, our dynamic team develops innovative solutions that not only meet critical customer challenges but also emphasize eco-friendly practices. Serving over 150 clients in more than 10 countries, we demonstrate our dedication to innovation, operational efficiency, and environmental responsibility.

Contact Us for More Details

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