AARVI ENERGY FILTREX & ENVIRONMENTAL SOLUTIONS

Address: Gat No. 869/4, A/P- Dugaon, Tal- Chandwad, Dist-Nashik-423104 (Maharashtra)



Ref.No.

Date:

Technical Specifications For

Lab scale Multichannel Microreactor System for Nanoparticles Synthesis

Description: A multichannel microreactor system is a miniaturized device designed for the synthesis of nanoparticles. It offers several advantages over conventional batch reactors, including:

Enhanced control over reaction parameters, Continuous production, Scalability, and Safety.

A typical multichannel microreactor system for nanoparticle synthesis consists of the following components:

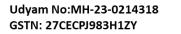
Microchannels: These are the tiny channels where the reaction takes place. The channels are typically made of silicon or glass and have dimensions of tens to hundreds of micrometers.

Mixing units: These units are used to combine different precursor solutions and reaction media. Different types of mixing units can be employed, such as T-mixers or staggered herringbone mixers.

Heating/cooling units: These units are used to control the reaction temperature. This can be achieved by incorporating heaters or coolers into the microreactor chip.

Collection unit: The nanoparticles produced in the reaction are collected at the end of the microchannels.

Sr. No.	Description	Quantity
1	Multichannel Microreactor	1-Unit
	1. Y-Junction	
	2. Y+3 Joint Junction	
2	Temperature sensor and controller system	1-Unit
3	Oil (Heating Media)	10 L
4	Microreactor Outer body	1-Unit
	(SS/Acrylic)	
5	Piping and Valves	1-Lot
6	Sering Pump	1
7	Stand/Cabinet for multichannel Microreactor	1-Unit



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Note*: Customized dimensions based setup is available

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