Department of Mechanical Engineering, NIT Calicut

FILM AND DROPWISE CONDENSATION UNIT

Photo of Instrument:					
Source was not a second of the					
Instrument Name	Film and Dropwise Condensation Unit				
Instrument Model & Serial No.	Sdn.BHD,HE 178				
Instrument Make	SolTeq Solution				
Category of Instrument	Characterization and Testing				
Description of Instrument	Filmwise and Dropwise Condensers enclosed in				
	a Borosilicate Glass Tube with flow control				
	valves, Steam generator with heating elements,				
	Digital Temperature Indicator with selector				
	switch, Rotameter				
Instrument Technical Description and	The process of condensation is the reverse of				
Major Specifications (This	boiling. Whenever a saturated vapor comes in				
Specifications Limited to Major 5)	contact with a surface at a lower temperature,				
	condensation occurs. There are two modes of				
	condensation; filmwise, in which the condensate				
	wets the surface forming a continuous film				

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which the vapor condenses into small liquid droplets of various sizes which fall down the surface in a random fashion. Application of Instrument (Limited to Major 4 or 5) Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions Types of Analysis / Testing Faculty In-Charge Name / Email / Contact Tohinikumar@nitc.ac.in, 9744480751; Dr. Sujith Kumar, sujithcs@nitc.ac.in, 7593001552 Technical Staff Name / Email / Contact Mr. Abhilash A, aabhilash@nitc.ac.in, 9847835655		which covers the entire surface and dropwise in				
sizes which fall down the surface in a random fashion. Application of Instrument (Limited to Major 4 or 5) Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions Types of Analysis / Testing Faculty In-Charge Name / Email / Dr. B. Rohini Kumar, Contact rohinikumar@nitc.ac.in, 9744480751; Dr. Sujith Kumar, sujithcs@nitc.ac.in, 7593001552 Technical Staff Name / Email / Contact Mr. Abhilash A, aabhilash@nitc.ac.in, 9847835655		which the vapor				
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9847835655	Technical Staff Name / Email / Contact	Mr. Abhilash A,				
9847835655						
		aabhilash@nitc.ac.in,				
		9847835655				
Location of Instrument Thermal Science Lab	Location of Instrument	Thermal Science Lab				
Other Details	Other Details					
	CVALUE DECEMBER					

User Charges:

S.NO.	Type of Analysis / Testing	Internal - within Department of NITC	Internal - Other Departments NITC	External Academic Educational Institutes	National R&D Labs	Industry
1						
2						
3						

Department of Mechanical Engineering, NIT Calicut

Slot Booking and Payment Work Flow: