

**FILM AND DROPWISE CONDENSATION UNIT**

**Photo of Instrument:**



<b>Instrument Name</b>	Film and Dropwise Condensation Unit
<b>Instrument Model &amp; Serial No.</b>	Sdn.BHD,HE 178
<b>Instrument Make</b>	SolTeq Solution
<b>Category of Instrument</b>	Characterization and Testing
<b>Description of Instrument</b>	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
<b>Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)</b>	The process of condensation is the reverse of boiling. Whenever a saturated vapor comes in 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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	<p>which covers the entire surface and dropwise in which the vapor condenses into small liquid droplets of various sizes which fall down the surface in a random fashion.</p>
<b>Application of Instrument</b> (Limited to Major 4 or 5)	
<b>Type of Sample Required for Analysis / Testing</b> (Quantity, Pre-Preparation, State etc.) <b>Guidelines for Sample Submission – User Instructions</b>	
<b>Types of Analysis / Testing</b>	
<b>Faculty In-Charge Name / Email / Contact</b>	<p>Dr. B. Rohini Kumar, <a href="mailto:rohnikumar@nitc.ac.in">rohnikumar@nitc.ac.in</a>, 9744480751;</p> <p>Dr. Sujith Kumar, <a href="mailto:sujithcs@nitc.ac.in">sujithcs@nitc.ac.in</a>, 7593001552</p>
<b>Technical Staff Name / Email / Contact</b>	<p>Mr. Abhilash A, <a href="mailto:aabilash@nitc.ac.in">aabilash@nitc.ac.in</a>, 9847835655</p>
<b>Location of Instrument</b>	Thermal Science Lab
<b>Other Details</b>	

### 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						

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### Slot Booking and Payment Work Flow: