



CONTACT ANGLE GONIOMETER

MODEL NO : TI 300

**TECHNICAL
DATASHEET**



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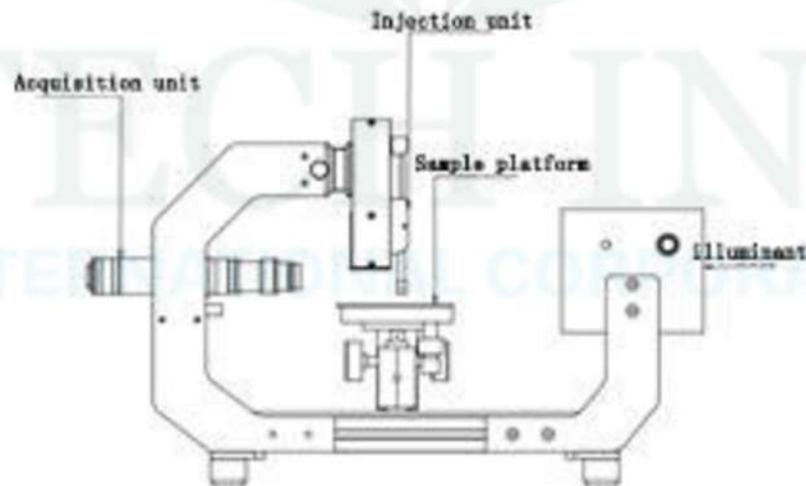


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PRINCIPLE INTRODUCTION:

Contact angle goniometer refers to the tangent of the gas-liquid interface at the intersection point C of gas, liquid and solid, and the included angle θ between the tangent on the liquid side and the solid-liquid boundary line is a measure of wetting degree. It is the main method of surface performance testing at present. The contact angle and surface energy of the sample surface are measured by the principle of optical imaging-image profile analysis. It is mainly composed of light source, injection unit, sample table, acquisition system and analysis software. The equipment adopts differential precision liquid inlet device, which has high cost performance, strong expansibility and comprehensive functions, and can meet all kinds of conventional measurement requirements. At present, it has been widely used in many universities and enterprises.

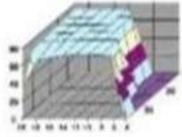


Picture Shown is only for representation purpose. Actual product may vary in size, appearance, etc.

MEASURING METHOD :



1. Static Contact Angle Test for Droplets



2. Used to characterize the wettability of the material



3. For two-phase surface and interfacial tension testing



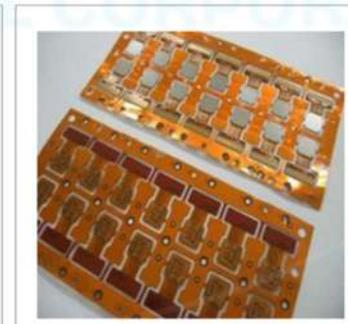
4. Test for contact angle under oil



5. Contact angle test for fiber materials

SCOPE OF APPLICATION:

Evaluation of solid surface treatment, analysis of plasma cleaning effect, analysis of surface cleanliness, research on adhesion characteristics between solid and liquid or solid, design of liquid formula, characterization of surface printing performance, analysis of surface modification, research on surface wettability of glass (including plastics or metals), etc. In the fields of mobile phone manufacturing, glass manufacturing, surface treatment, material research, chemistry, semiconductor manufacturing, coating ink, electronic circuit, textile fiber, medical biology, etc., contact angle measurement has become an important instrument for evaluating surface properties.



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TECHNICAL SPECIFICATION

SI NO	Parameter	Specification
1	Instrument Design	The instrument Shall be fully automated Video Based system designed on Goniometric Method high speed camera & Optics for determination of Contact Angle, wetting properties of simple and complex sample structure
2	Modular Measurements	The instrument Shall be fully modular to measure the following parameters adding software & hardware in future as follows: Static & Dynamic Contact Angle according to Sessile Drop Method/ captive bubble method - The wetting behavior in solid surface - Advancing and Receding Contact Angle - Surface and Interfacial Tension by Pendant Drop Method - Instrument Shall be applicable for Surface Free Energy
3	Specifications and Features	The instrument Shall be capable and conform with the following specifications and features: - <ul style="list-style-type: none"> • Measuring range of the Contact Angle: 0° - 180° • Measuring range for Surface Tension and Interfacial Tensions: 0.01 - 2000 mN/m or better • Resolution: ± 0.01mN/m or better. • Optical System with 3 steps zoom lens, continuously variable focal length • LED lighting with two steps manual intensity control with integrated light blind and vertically adjustable. • Camera system:- maximum frame rate 2700 frames/s or better
4	Sample Stage	Axes and sample stages <ul style="list-style-type: none"> • The sample stage size Shall be 100 x 100 mm (L x W) with flexible positioning in x-y directions with integrated level and sample clamps • Z-Axis manual flexible positioning in x-y directions with 38 mm movement in Z direction, designed for heavy samples up to 5 kg.

SI NO	Parameter	Specification
5	Dispensing System	<p>High Precision Direct Dosing system without any tubing must be offered.</p> <ol style="list-style-type: none"> 1. System Shall include one manual Dosing System and one software control Automatic Dosing System 2. Easily switchable syringes and use of disposable syringes with the electronic/manual syringe unit must be offered whatever required. 3. Dosing assembly Shall be capable to be upgraded up to five needle 4. Syringe unit must have dosing rate 0.02 to 25 $\mu\text{L/s}$ with 0.1 μL resolution.
6	Software	<p>Windows/Linux based Software Shall be offered for following operations:</p> <ol style="list-style-type: none"> a) Main Software to record / store image sequences of the analysis with automatic/Manual controlling of the syringe unit as well as the other electronic accessories. The software for automatic control of the camera, had to be included. b) Main software determine Contact Angle, Surface Tension, Interfacial Tension and Surface Free Energy measurement of surface and interfacial tension of pendant drop and rising drop in the range 0.01-2000 mN/m with 0.01 mN/m resolution.
7	Upgradeability	<p>Upgradeability facility Shall be there as follows:</p> <ul style="list-style-type: none"> • System must be of modular design to work under various environmental conditions. Upgradation possibility Shall be in the offered system for needle heating device up to-50 to 400°C for highly viscous material. • System must be designed to be fully-expandable to all major accessory options to accommodate future experimental needs like Pressure dosing system, electrical needle heating device, liquid temperature control unit, • Upgradeability facility Shall be there with adding Electronic Tilting base unit which allows motor-driven and software-controlled inclination of the full instrument including camera and Sample stage.

SI NO	Parameter	Specification
		<ul style="list-style-type: none"> • Software provided to calculate the surface free energy of a substrate Different methods. The surface free energy splits into its polar and dispersive components. • Software for Adhesion analysis • Software and associated accessories for measuring surface tension by Pendent drop and constrained drop methods
8	Warranty	2 years of warranty

		
Powder tablet sample preparation tool	Electronic Tilt the platform (test the rolling angle)	Temperature control platform (high temperature type, high and low temperature type)
		
Electric tilting platform (test rolling angle)	High-speed camera (global exposure 1/1000 frames /s)	Injection needle syringe



Pressure dosing system



Picture Shown is only for representation purpose. Actual product may vary in size, appearance, etc.

Factory Photos



CANADA



INDIA

Warehouse Photos



Factory FootPrint

>65,000 Sq.ft



Well-stocked & Agile

Year Long Production



Automated Processes

AI Predictive stocking



7 Day Dispatch

on Standard products

Company vision & Values



Constant innovation
to lead the market



Honesty &
Transparency



Constant customer
empowerment &
contact



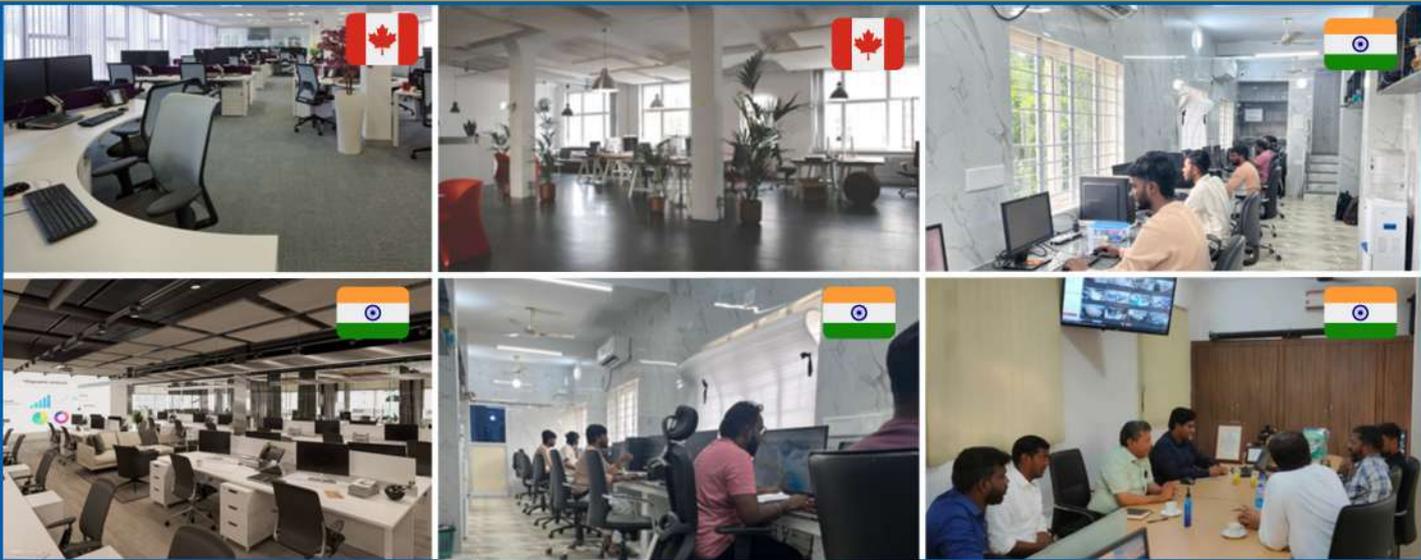
Made to meet
Global Standards



Cost Saving Products
Value for Money

Being part of a 30 year old group with vast experience in the field of manufacturing, filtration and separation, Tech Inc. stands on rock solid foundation of technical strength. We design and develop equipment suitable for making, testing and characterization of emerging technologies

Office Photos



Lab Photos



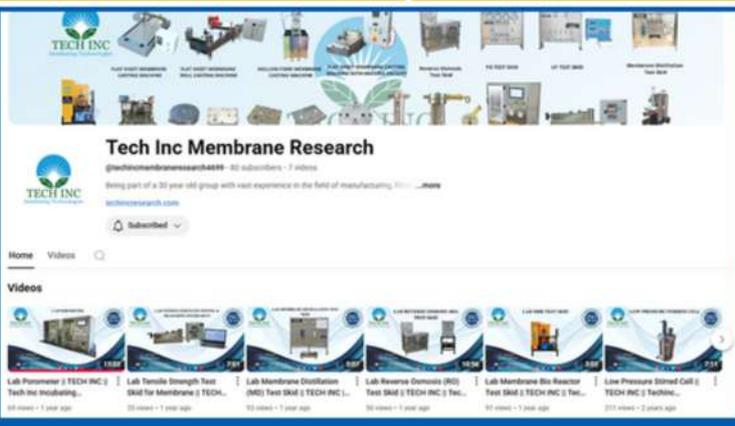
Shipment



Freight Forwarder Partnerships



Payments Accepted



Tech Inc.'s Scope of Work & Services



Design



Supply



Installation



Training



Service



Maintenance

Electronics

Human Machine Interface



Programmable Logic Controller



Supervisory Control and Data Acquisition

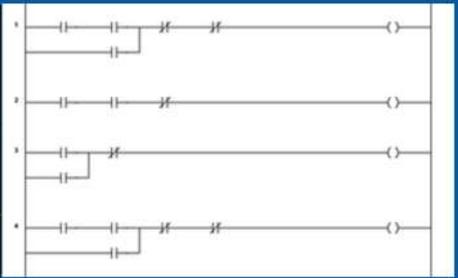


Distributed Control System



Software

Ladder Programming



Labview

Visual Basic

C++

React



Components used



LIQUID MASS FLOW CONTROLLER FROM BRONKHORST, NETHERLANDS



LIQUID MASS FLOW METER FROM BRONKHORST, NETHERLANDS



GAS MASS FLOW CONTROLLER FROM BRONKHORST, NETHERLANDS



DCS FROM SCHNEIDER, GERMANY



PANEL/CABINET FROM RITTAL SWITZERLAND



WET GAS FLOW METER FROM BITTER, GERMANY



THERMOCOUPLE FROM WATLOW, USA



SWAGELOK FITTINGS



DEPUTED INDUSTRIAL LAPTOP



PRESSURE GAUGE FROM WIKA, GERMANY

Methodology



SWAGELOK REGULATORS



SWAGELOK CHECK VALVES



SWAGELOK PRESSURE RELIEF VALVES



TEMPERATURE CONTROLLERS FROM WATLOW, USA



SS TUBING FROM SWAGELOK





Flat sheet membrane casting machine series



Lab flat sheet membrane casting machine



Lab flat sheet membrane casting machine with heating facility



Flat sheet membrane roll casting machine with heating facility - precision casting



Flat sheet membrane roll casting machine



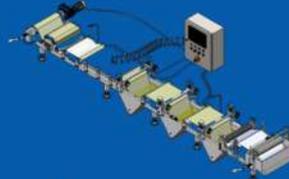
Flat sheet membrane roll casting machine with heating facility - KFUPM



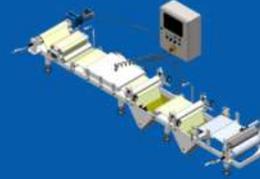
Flat sheet membrane roll casting machine with heating facility - SCW



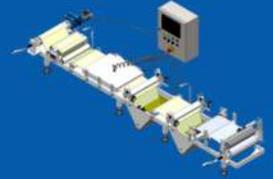
Flat sheet membrane roll casting machine with heating facility - los alamos



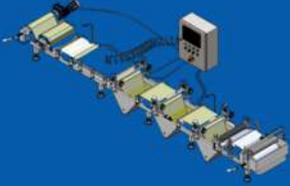
Flat sheet membrane roll casting machine with heating facility - 3 layer coating



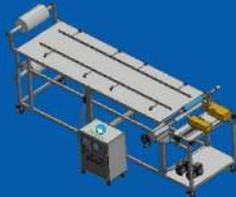
Flat sheet membrane roll casting machine with heating facility - interfacial polymerisation



Flat sheet membrane roll casting machine with heating facility - spray coating



Flat sheet membrane roll casting machine with heating facility - slot die



Spiral winding membrane making machine



Flat sheet membrane potting machine



Flat sheet membrane cutting & trimming machine

Hollow fiber membrane casting machine series



Hollow fiber membrane casting machine



Automatic hollow fiber membrane casting machine



Automatic pilot hollow fiber membrane casting machine



Hollow fiber membrane potting machine



Hollow fiber membrane cutting & trimming machine



Full scale hollow fiber membrane potting machine

Micro filtration testing system series



Micro filtration test skid



Micro filtration test skid with Daq



Micro filtration pilot plant



Micro filtration pilot plant



Lab scale ultra filtration test skid



Lab scale ultra filtration test skid with Daq



Electro conductive membrane ultra filtration with Daq



Ultra filtration pilot plant

Reverse osmosis testing system series



Lab scale reverse osmosis test skid



Lab scale reverse osmosis test skid with Daq



RO test skid with spiral wound membrane housing



High pressure membrane testing system with multicell series



RO membrane testing system tabletop with Daq system



RO pilot scale with Daq system



Automatic RO pilot scale with plc + SCADA system



High pressure pilot scale with Daq system

Membrane distillation testing system series



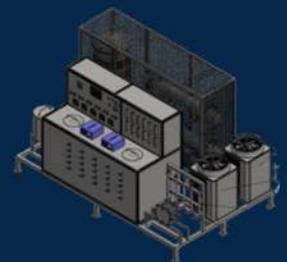
Lab scale membrane distillation test skid



Lab scale membrane distillation test skid with Daq



Pilot membrane distillation with Daq



Full membrane distillation with Daq

Forward osmosis testing system series



Lab scale forward osmosis test skid



Lab scale forward osmosis test skid with Daq



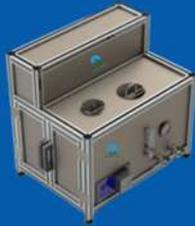
Pilot Scale Forward Osmosis Testing System



Full Scale Forward Osmosis Testing Unit with DAQ Controller



Lab scale pervaporation test skid



Pervaporation Test skid Table Top with Circular Test cell



Pervaporation Test skid Table Top with Rectangular Test cell



Pervaporation Single with DAQ



Pervaporation triple cells series testing machine



Pervaporation triple cells series testing machine with Daq system



Pilot scale pervaporation testing unit



Hybrid pervaporation testing system

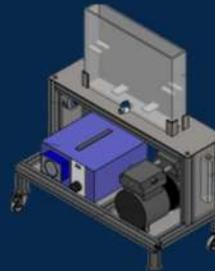
Membrane bio reactor system series



Lab Membrane Bio Reactor Test Skid



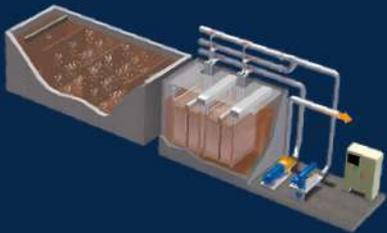
Lab Membrane Bio Reactor Test Skid with DAQ



Transparent Membrane Bio Reactor Test Skid



Full Scale Pilot Membrane Bio Reactor



Pilot scale Membrane Bio Reactor

Common accessories



Heater



Chiller



High performance pc system



Hp pumps & chemical dosing pumps

MICROFILTRATION TEST CELL



MF circular test cell
Moc : ss316
Size : 50mm
Pressure : upto 2 bars



MF CIRCULAR TEST CELL
MOC : SS316
SIZE : 100 MM
PRESSURE : UPTO 2 BARS



MF RECTANGULAR TEST CELL
MOC : SS316
SIZE : 30mm X 70mm
PRESSURE : UPTO 2 BARS



MF RECTANGULAR TEST CELL
MOC : SS316
SIZE : 100mm X 150mm
PRESSURE : UPTO 2 BARS



MF RECTANGULAR TEST CELL
MOC : DELRIN
SIZE : 30mm X 70mm
PRESSURE : UPTO 2 BARS



MF LOW PRESSURE
STIRRED CELL
MOC : SS304
PRESSURE : UPTO 2 BARS



MF HOLLOW FIBER
MRMBRANE MODULE HOUSING
MOC : POLYCARBONATE
PRESSURE : UPTO 2 BARS

ULTRAFILTRATION TEST CELL



UF CIRCULAR TEST CELL
MOC : SS316
SIZE : 50MM
PRESSURE : UPTO 3 BARS



UF CIRCULAR TEST CELL
MOC : SS316
SIZE : 100 MM
PRESSURE : UPTO 3 BARS



UF RECTANGULAR TEST CELL
MOC : SS316
SIZE : 30MM X 70MM
PRESSURE : UPTO 3 BARS



UF RECTANGULAR TEST CELL
MOC : SS316
SIZE : 100MM X 150MM
PRESSURE : UPTO 3 BARS



UF RECTANGULAR TEST CELL
MOC : DELRIN
SIZE : 100MM X 150MM
PRESSURE : UPTO 3 BARS



UF HOLLOW FIBER
MRMBRANE MODULE HOUSING
MOC : POLYCARBONATE
PRESSURE : UPTO 3 BARS



PILOT UF HOLLOW FIBER
MRMBRANE MODULE HOUSING
MOC : PVC
PRESSURE : UPTO 3 BARS

NANOFILTRATION TEST CELL



NF CIRCULAR TEST CELL
MOC : SS316
SIZE : 50MM
PRESSURE : UPTO 25 BARS



NF CIRCULAR TEST CELL
MOC : SS316
SIZE : 100 MM
PRESSURE : UPTO 25 BARS



NF RECTANGULAR TEST CELL
MOC : SS316
SIZE : 30mm X 70mm
PRESSURE : UPTO 40 BARS



NF RECTANGULAR TEST CELL
MOC : SS316
SIZE : 100mm X 150mm
PRESSURE : UPTO 40 BARS



NF RECTANGULAR TEST CELL
MOC : DELRIN
SIZE : 30mm X 70mm
PRESSURE : UPTO 40 BARS



NF 1812 SPIRAL WOUND
MEMBRANE
HOUSING
PRESSURE : UPTO 40 BARS



NF HIGH PRESSURE
STIRRED CELL
PRESSURE : UPTO 40 BARS

REVERSE OSMOSIS TEST CELL



RO RECTANGULAR TEST CELL
MOC : SS316
SIZE : 30mm X 70mm
PRESSURE : UPTO 69 BARS



RO RECTANGULAR TEST CELL
MOC : SS316
SIZE : 95 mm X 45 mm
PRESSURE : UPTO 69 BARS



RO RECTANGULAR TEST CELL
MOC : SS316
SIZE : 95 mm X 50 mm
PRESSURE : UPTO 69 BARS



RO RECTANGULAR TEST CELL
MOC : SS316
SIZE : 100 mm X 150 mm
PRESSURE : UPTO 80 BARS



RO RECTANGULAR TEST CELL
MOC : SS316
SIZE : 100 mm X 150 mm
PRESSURE : UPTO 120 BARS



NF HIGH PRESSURE
STIRRED CELL
MOC : SS 316
PRESSURE : UPTO 80 BARS



RO 4040 MEMBRANE
HOUSING
MOC : FRP
PRESSURE : UPTO 70
BARS



RO 4040 MEMBRANE
HOUSING
MOC : SS 316
PRESSURE : UPTO 120
BARS

FORWARD OSMOSIS TEST CELL



FO RECTANGULAR TEST CELL
MOC : SS316
SIZE : 30mm X 70mm
PRESSURE : UPTO 3 BARS



FO RECTANGULAR TEST CELL
MOC : DELRIN
SIZE : 30mm X 70mm
PRESSURE : UPTO 2 BARS



FO RECTANGULAR TEST CELL
MOC : SS316
SIZE : 100 mm X 150 mm
PRESSURE : UPTO 3 BARS



FO RECTANGULAR TEST CELL
MOC : DELRIN
SIZE : 100mm X 150mm
PRESSURE : UPTO 2 BARS



FO RECTANGULAR TEST CELL
(QUARTZ WINDOW)
MOC : SS316
SIZE : 30mm X 70mm
PRESSURE : UPTO 3 BARS



RECTANGULAR TEST CELL
(QUARTZ WINDOW)
MOC : SS316
SIZE : 100 mm X 150 mm
PRESSURE : UPTO 3 BARS



FO HOLLOW FIBER MRMBRANE
MODULE HOUSING
MOC : POLYCARBONATE
PRESSURE : UPTO 3 BARS

PERVAPORATION TEST CELL



PERVAPORATION CIRCULAR
TEST CELL
MOC : SS316
SIZE : 50mm
PRESSURE : UPTO 3 BARS



PERVAPORATION CIRCULAR
TEST CELL
MOC : SS316
SIZE : 100mm
PRESSURE : UPTO 3 BARS



PERVAPORATION RECTANGULAR
TEST CELL
MOC : SS316
SIZE : 30mm X 70mm
PRESSURE : UPTO 3 BARS



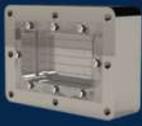
PERVAPORATION RECTANGULAR
TEST CELL
MOC : DELRIN
SIZE : 30mm X 70mm
PRESSURE : UPTO 2 BARS



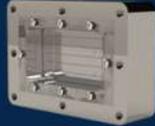
PERVAPORATION RECTANGULAR
TEST CELL
MOC : SS316
SIZE : 100mm X 150mm
PRESSURE : UPTO 3 BARS



PERVAPORATION RECTANGULAR
TEST CELL
MOC : DELRIN
SIZE : 100mm X 150mm
PRESSURE : UPTO 2 BARS



PERVAPORATION RECTANGULAR TEST CELL (QUARTZ WINDOW)
MOC : SS316
SIZE : 30mm X 70mm
PRESSURE : UPTO 3 BARS



PERVAPORATION RECTANGULAR TEST CELL (QUARTZ WINDOW)
MOC : SS316
SIZE : 100mm X 150mm
PRESSURE : UPTO 3 BARS



PERVAPORATION RECTANGULAR TEST CELL
MOC : DELRIN
SIZE : 250mm X 250mm
PRESSURE : UPTO 2 BARS



PERVAPORATION RECTANGULAR TEST CELL
MOC : SS 316
SIZE : 0.5 sq.m
PRESSURE : UPTO 2 BARS

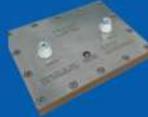
MEMBRANE DISTILLATION TEST CELL



MEMBRANE DISTILLATION CIRCULAR TEST CELL
MOC : SS316
SIZE : 50mm
PRESSURE : UPTO 3 BARS



MEMBRANE DISTILLATION CIRCULAR TEST CELL
MOC : SS316
SIZE : 100mm
PRESSURE : UPTO 3 BARS



MEMBRANE DISTILLATION RECTANGULAR TEST CELL
MOC : SS316
SIZE : 30mm X 70mm
PRESSURE : UPTO 3 BARS



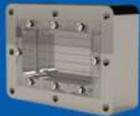
MEMBRANE DISTILLATION RECTANGULAR TEST CELL
MOC : DELRIN
SIZE : 30mm X 70mm
PRESSURE : UPTO 2 BARS



MEMBRANE DISTILLATION RECTANGULAR TEST CELL
MOC : SS316
SIZE : 100mm X 150mm
PRESSURE : UPTO 3 BARS



MEMBRANE DISTILLATION RECTANGULAR TEST CELL
MOC : DELRIN
SIZE : 100mm X 150mm
PRESSURE : UPTO 2 BARS



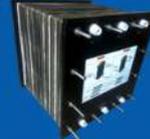
MEMBRANE DISTILLATION RECTANGULAR TEST CELL (QUARTZ WINDOW)
MOC : SS316
SIZE : 30mm X 70mm
PRESSURE : UPTO 3 BARS



MEMBRANE DISTILLATION RECTANGULAR TEST CELL (QUARTZ WINDOW)
MOC : SS316
SIZE : 100mm X 150mm
PRESSURE : UPTO 3 BARS



MEMBRANE DISTILLATION RECTANGULAR TEST CELL
MOC : DELRIN
SIZE : 250mm X 250mm
PRESSURE : UPTO 2 BARS



MEMBRANE DISTILLATION RECTANGULAR TEST CELL
MOC : SS 316
SIZE : 0.5 sq.m
PRESSURE : UPTO 2 BARS



PILOT MD STACK CELL

MEMBRANES

- MICRO FILTRATION FLATSHEETS & HOLLOW FIBER
- ULTRA FILTRATION FLATSHEETS & HOLLOW FIBER
- NANO FILTRATION FLATSHEETS & HOLLOW FIBER
- REVERSE OSMOSIS FLATSHEETS & HOLLOW FIBER
- FORWARD OSMOSIS FLATSHEETS & HOLLOW FIBER
- MEMBRANE DISTILLATION FLATSHEETS & HOLLOW FIBER
- MBR FLATSHEETS & HOLLOW FIBER
- GAS SEPARATION FLATSHEETS & HOLLOW FIBER



MBR FLATSHEET MEMBRANES



MBR 2 TIER SUBMERGED MEMBRANES



MBR 3 TIER SUBMERGED MEMBRANES



PILOT MBR HOLLOW FIBER MEMBRANE



PES, PVDF, PS & CA FLATSHEET MEMBRANES



PES, PVDF, PS & CA HOLLOW FIBER MEMBRANES



GRAPHENE OXIDE FLATSHEET MEMBRANE



HOLLOW FIBER MEMBRANE MODULE



SPIRAL WOUND MEMBRANE

SPACERS



FEED SPACER



PERMEATE SPACER

SUPPORT SHEETS



POLYESTER SUPPORT SHEET

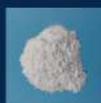
CHEMICALS



PES



PVDF



PAN



PS



CA



PVP



DMAC



NMP



DMF



Contact Angle Measurement Equipment TICONT Series



TI 165



TI 205



TI 205K



TI 405



TI 405K



TI 605



TI 605K



TI 1005K



TI 125



MODEL
Technical Specifications



TI 165



TI 205



TI 205K



TI 405



TI 405K



TI 605



TI 605K



TI 1005 K



TI 125

MODEL Technical Specifications	TI 165	TI 205	TI 205K	TI 405	TI 405K	TI 605	TI 605K	TI 1005 K	TI 125
Instrument dimensions	505mm*168mm*460mm	505mm*168mm*460mm	505mm*168mm*450mm	630mm*180mm*500mm	630mm*180mm*500mm	950mm*380mm*550mm	950mm*380mm*550mm	630mm*180mm*530mm	80mm*44mm*140mm
Instrument weight	8.6KG	8.6KG	9KG	10KG	10.8KG	30KG	30KG	20KG	0.5KG
Input power	220V 50-60Hz	220V 50-60Hz	220V 50-60Hz	220V 50-60Hz					
POWER	5W	5W	15W	15W	33W	5W	33W	51W	2W
Platform size	130*150mm	130*150mm	130*150mm	130*150mm	130*150mm	300*300mm	300*300mm	130*150mm	Unlimited
Moving range	X:30mm Y:50mm Z:30mm	X:30mm Y:50mm Z:30mm	X:30mm Y:50mm Z:30mm	X:30mm Y:50mm Z:30mm	X:30mm Y:50mm Z:30mm	X:130mm Y:170mm Z:50mm	X:130mm Y:170mm Z:50mm	X:30mm Y:50mm Z:30mm	Unlimited
Moving mode	Manual	Manual	Manual/ Automatic	Manual	Manual	Manual Sliding rail type	Manual/ Automatic	Manual	Manual
Platform tilting	Manual	Manual	Manual	Manual	Manual	Manual	AUTOMATIC	AUTOMATIC	Manual
Injection movement stroke	Y: 10mm Z: 20mm	Y: 10mm Z: 20mm	Y: 10mm Z: 20mm	Y: 12mm Z: 12mm	Y: 12mm Z: 12mm	Y: 40mm Z: 35mm	Y: 40mm Z: 35mm	Y: 40mm Z: 35mm	Y: 2mm Z: 1mm

Drip control movement	25mm	25mm	50mm	60mm	60mm	30mm	30mm	60mm	30mm
Drip sampling method	Manual rotary knob type	Manual rotary knob type	Software automation	Software automation	Software automation	Differential knob type	Software automation	Software automation	Manual rotary knob type
Pipetting method	Manual	Manual	Manual/Automatic	Manual	AUTOMATIC	Manual	AUTOMATIC	AUTOMATIC	Manual
Drip accuracy	0.1ul	0.1ul	0.1ul	0.001ul	0.001ul	0.1ul	0.1ul	0.001ul	0.1ul
Liquid addition method	Manual	Manual	Manual	AUTOMATIC	AUTOMATIC	Manual	Manual	AUTOMATIC	Manual
Micro sample injector	Capacity: 1000ul	Capacity: 1000ul	Capacity: 1000ul	Capacity: 500ul	Capacity: 500ul	Capacity: 1000ul	Capacity: 500ul	Capacity: 500ul	Capacity: 500ul
Camera connection	USB2.0	USB2.0	USB2.0	USB3.0	USB3.0	USB3.0	USB3.0	USB3.0	USB2.0
Lens	0.7x-4.5x								
Focal length	± 2.5mm adjustable								
Image capture methods	Single shot, by interval, continuous								
Shooting interval time	500-3600000 ms								
Video recording methods	Video recording, playback, and synthesis								
Maximum shooting speed	80 frames/sec	80 frames/sec	80 frames/sec	400 frames/sec	400 frames/sec	400 frames/sec	400 frames/sec	400 frames/sec	80 frames/sec
Service life	More than 20000 hours	More than 20000 hours	More than 20000 hours	More than 50000 hours					
Light source wavelength	465nm								
Light source type	Standard light source	Standard light source	Standard light source	Collimated light source	Collimated light source	Collimated light source	Collimated light source	Collimated light source	Standard light source

Compact Auto SDI Kit



CASDI 4750 Kit

- Performs SDI 5, 10 and 15 minute tests with both 100ml and 500ml sample size tests
- Unattended operation. Start the test and return in 15 minutes for the results – saves you time
- Real-time display of results including SDI, current flow rate and elapsed time. End of test display includes SDI 5,10 & 15 with 100 ml and 500 ml results.
- SDI 5: Range 0 – 20
- SDI 10: Range 0 – 10
- SDI 15: Range 0 – 6.7

Online Silt Density Index kit series



SDI 4750 Kit

- Follows ASTM D-4189 Comprehensively
- Output to PLC, HMI
- Data Acquisition and Storage Log
- RO Membrane bypass Alarm
- SDI 5,10,15 Readings are displayed



SDI 4950 Pro Kit

- No Operator required after every test
- Follows ASTM D-4189 Comprehensively
- Self-Boosting Pump to maintain 2.1 Bars
- AI Enabled Auto-Change of Test Frequency
- Output to PLC, SCADA, DCS
- Data Acquisition and Storage Log
- RO Membrane bypass Alarm
- Pump Shut Off Alarm
- Overlimit Alarm
- SDI 5,10,15 Readings are displayed

Modified Fouling Index Analyser series



MFI Filton 4750 Analyser

- Follows ASTM D-4189 Comprehensively
- Output to PLC, HMI
- Data Acquisition and Storage Log
- RO Membrane bypass Alarm
- MFI 5,10,15 Readings are displayed



MFI Filton 4950 Pro Analyser

- No Operator required after every test
- Follows ASTM D-4189 Comprehensively
- Accurate measurement to predict feed- and driving pressure
- AI Enabled Auto-Change of Test Frequency
- Output to PLC, SCADA, DCS
- Data Acquisition and Storage Log
- Fouling potential of particles <0.45 um is measured
- Pump Shut Off Alarm
- Applicable for highly fouled feed water
- MFI 5,10,15 Readings are displayed