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Incubating Technologies

CERTIFIED ISO 9001:2008 COMPANY

AUTO SDI KIT

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SDI – Silt Density Index, is a measure of presence of suspended solids (SS) in feed water. Measure and control of SDI is important in membrane based water treatment systems, since excess SS could clog the membrane surface. SDI 15 values range from 0 to 6.77, with 6.77 as maximum. All RO/ Nano membrane manufactur- ers specify a limit of SDI15 < 5 for smooth operation of the membranes. Our Auto SDI kit is used to measure the SDI value of any given water stream inside a pipe with the least possible human effort.

FEATURES
- Superior Portability
- Increased ease of measurement
- Reduced time/measurement
- Accurate SDI results everytime
- Increased safety for membranes
- User friendly, custom built embedded SDI software
- Dependable built-in Data Acquisition System(DAQ)

E-mail : techincmail@gmail.com
mail@techincresearch.com
Web : www.techincresearch.com

Get a quote
Tel: +91-044-48502060
Ph: +91-739 749 8656 /
+91-739 749 8657

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Principle of Conventional SDI measurement:

1. Feed water is allowed to pass through a membrane of 0.45 microns pore size with 47 mm diameter held inside a membrane holder at a regulated pressure of 2 kg/cm2.
2. Initial Time, Ti required to fill a known volume (500ml) is measured.
3. Feed water is allowed to permeate through the membrane for an interval of Tint = 15 minutes – time measured with stop watch.
4. Final Time, Tf required to fill the same preselect volume of 500ml is measured with stop watch.
5. Silt Density Index is manually calculated using the formula

$$SDI_{15} = \frac{(1 - Ti/Tf) \times 100}{T_{int}}$$

6. Depending on the feed quality, the volume of measurement of 500ml can be varied between 500 ml to 1 l.
7. Depending on the feed quality, the time interval Tint of 15 min can be varied to 5/ 10/ 15 minutes.

As you can see, the above process is time consuming and requires a skilled operator and constant attention.

The Auto SDI kit does all the above work for you automatically. This ensures a correct SDI reading every time.

In our Auto SDI kit, steps 2 to 7 are made available on a touch screen, with provisions for selecting various options for time intervals and volumes of selection, with START/STOP button, to initiate the process of measurement with preselected values and the final SDI index is displayed on the screen.
Further, provision is available to record the values taken at various points of time on a standard laptop/ desktop through a specially developed software .

	SPECIFICATIONS	
Si.No	SPECIFICATION	DETAILS
1	ASTM	D - 4189 - 07
2	SDI_{15} range	0 - 6
3	SS membrane	47mm dia
4	Holder	0.45 micron
5	Pressure gauge	0 - 4 bar
6	SDI controller	16x12x8.5 cm
7	Dimensions	19x10x10.5 inch
8	Weight	4 kg

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TECH INC PRODUCTS

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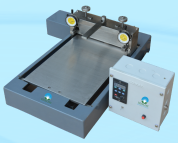
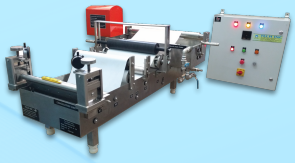
YOUR ASSOCIATES IN MEMBRANE RESEARCH

MEMBRANE MAKING EQUIPMENT



FLATSHEET MEMBRANE CASTING MACHINE

FLATSHEET MEMBRANE CASTING MACHINE WITH HEATING FACILITY



FLATSHEET MEMBRANE ROLL CASTING MACHINE

HOLLOW FIBER MEMBRANE CASTING MACHINE

MEMBRANE TESTING EQUIPMENT

MEMBRANE TEST SKIDS

MD TEST SKID

MBR TEST SKID

RO TEST SKID

PERVAPORATION TEST SKID

FO TEST SKID

UF TEST SKID

MEMBRANE STIRRED CELLS

HIGH PRESSURE STIRRED CELL

LOW PRESSURE STIRRED CELL

MEMBRANE TEST CELLS

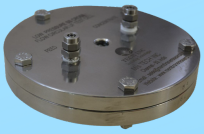
HOLLOW FIBER TEST CELL

FO TEST CELL

MD TEST CELL

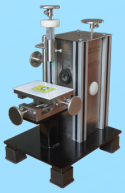
PERVAPORATION TEST CELL

RO TEST CELL

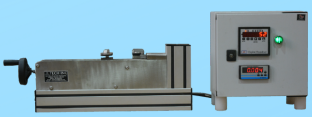


CIRCULAR TEST CELL

MEMBRANE CHARACTERIZATION EQUIPMENT



CONTACT ANGLE MEASUREMENT



MEMBRANE STRENGTH TESTER

CAPILLARY FLOW POROMETER

MEMBRANE MATERIALS

CHEMICALS

- PES
- PVDF
- PS
- CA/CTA
- PAN

ADDITIVES

- PVG
- PEG
- GRAPHENE OXIDE
- CNT
- TiO2
- LiCl

SOLVENTS

- NMP
- DMAC

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Ph: +91-739 749 8656 /
+91-739 749 8657

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TECH INC
CONTACT INFORMATION

No.32 , 3rdMain Road, Indian Bank Colony, Ambattur,Chennai-600053

E-mail : techincmail@gmail.com
mail@techincresearch.com
Web : www.techincresearch.com

Tel: +91-044-48502060
Ph : +91-739 749 8656 /
+91-739 749 8657

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