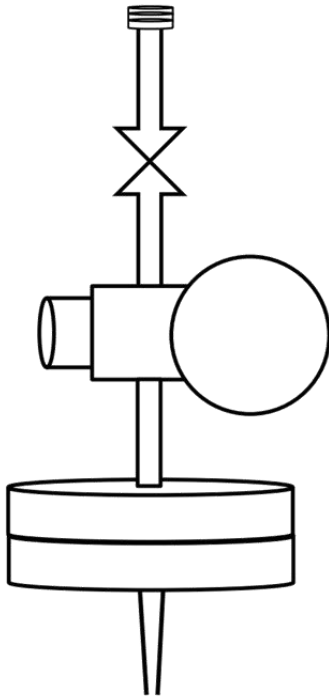


Manual SDI KIT

Product Overview



The manual SDI instrument system produced by Shanghai Xuanyi Environmental Technology Co., Ltd. includes a pressure reducing valve, a 47mm membrane changing filter, SDI filter membranes, necessary valves, connecting pipes and fittings. This manual SDI analyzer system includes a box of 100 test filter membranes, which fully comply with the requirements of ASTM D4189-07 method. Using this SDI tester device, only a measuring cup and stopwatch need to be prepared to measure SDI values online.

- 1) Stopwatch, accuracy 0.2 seconds
- 2) Measuring cup, 500ml, PP, minimum scale 50ml
- 3) 47mm diameter, 0.45 μm pore size filter membrane, consumables

Special Features

- Handheld design, compact and lightweight.
- Multiple Applications: Test online or offline for flexibility and convenience.
- Complete kit: Ready-to-use package includes all essential components to minimize setup time.
- Multiple configuration options: Choose from a variety of cost-effective configurations tailored to your application.
- Safe operation: Integrated pressure relief valve and safety locking clamp ensure secure handling under pressure.
- Global standards: Instrument design, testing methodology, and key components ((such as the SDI membrane) fully comply with the requirements of ASTM D4189-07 (2014) - Standard Test Method for Dust Density Index (SDI) of Water.

Scope of Application

- Pre-Treatment Monitoring: Routine testing of RO/NF feed water.
- Troubleshooting: Investigating membrane fouling issues and pre-filter performance.
- Commissioning: Validating the performance of new pre-treatment systems (e.g., media filters, cartridge filters).
- Research & Development: Water quality analysis in laboratory settings.

SDI Kit Contents

1 x SDI meter
1 x Set of tubing and fittings
1 x Box, 47mm, 0.45 μ m MCE Membrane Filters (100 pieces)
1 x 500ml PP measuring cup (optional)
1 x Digital Stopwatch (optional)
1 x Forceps
1 x toolbox (optional)
1 x User Manual (EN)
1 x Certificate of Approval (EN)

Note: Please refer to the ordering information for specific configurations.

Technical Data Sheet



Technical data



Model	FI-47	SDI-KIT-AL	FI-47-01	SDI-KIT-HS	SDI-KIT-SS	SDI-KIT-S316
Feed Water Pressure	0.24-0.5Mpa (35-70psi)					
Filter Material	PP	Aluminum	PP	304 Stainless Steel	304 Stainless Steel	316 Stainless Steel
Filter Membrane	0.45μm pore size, φ47mm, mixed cellulose ester (MCE)					
Pressure Gauge	AC. 2.5	AC. 2.5	AC. 2.5	AC. 2.5	304SS, AC.1.6	316SS, AC.1.6
Inlet Connection	1/2" G male thread					
Application	Common Water		sea water	Common Water		
Sample Volume	500ml					
Temperature	0-35°C					
Standard	ASTM D4189-07 (2014)					
Dimensions(mm)	110 × 90 × 250	90 × 80 × 250	110 × 100 × 250	110 × 90 × 250	110 × 90 × 250	110 × 90 × 270
Weight (kg)	0.55	0.7	0.4	1.25	1.4	1.55

Note: AC. — Accuracy Class

Portable SDI KIT

Product Overview



The portable SDI tester system produced by Shanghai Xuanyi Environmental Technology Co., Ltd. includes a pressure reducing valve, a 47mm membrane changing filter, SDI filter membranes, necessary valves, connecting tubing and fittings, a 500ml measuring cup, a stopwatch, and tweezers. It fully complies with the requirements of ASTM D4189-07. The main accessories of this SDI tester system are integrated in the portable box. Just take out the corresponding accessories to conduct the test; after use, return them to their designated locations. Featuring a compact, lightweight carrying case, this system offers convenient access to all components, streamlining your SDI testing process.

Special Features

- Highly integrated, ready to Use Out of the box: the system integrates a pressure reducing valve, 47mm membrane filter, SDI filter membrane, dedicated valves, connecting fittings, a 500ml measuring cup, a stopwatch, and tweezers. No additional configuration is required.
- Portable and efficient, flexible mobility: The suitcase-style design is compact and lightweight, allowing easy access to accessories, allowing for quick on-site SDI testing.
- Easy to operate and use: The modular component design with straightforward assembly. Users complete testing by following step-by-step connections, significantly boosting efficiency. Complete kit: Ready-to-use package includes all essential components to minimize setup time.
- Durable and reliable: The toolbox is constructed from high-strength engineering plastic, resistant to impact, wear, and corrosion, providing solid protection for delicate components and extending the life of the instrument.
- Easy and cost-effective maintenance: Reserved storage areas for accessories prevent damage

- and loss. The durable toolbox remains neat and organized over long periods of use, significantly reducing maintenance and management costs.
- Safe operation: Integrated pressure relief valve and safety locking clamp ensure secure handling under pressure.
- Global Standards: Instrument design, test methods, and key components (such as SDI membranes) fully comply with the requirements of ASTM D4189-07 (2014) - Standard Test Method for Dust Density Index (SDI) of Water.

Scope of Application

- Pre-Treatment Monitoring: Routine testing of RO/NF feed water.
- Troubleshooting: Investigating membrane fouling issues and pre-filter performance.
- Commissioning: Validating the performance of new pre-treatment systems (e.g., media filters, cartridge filters).
- Research & Development: Water quality analysis in laboratory settings.

SDI Kit Contents

- 1 x SDI meter
- 1 x Set of tubing and fittings
- 1 x Box, 47mm, 0.45 μ m MCE Membrane Filters (100 pieces)
- 1 x 500ml PP measuring cup
- 1 x Digital Stopwatch
- 1 x Forceps
- 1 x small wrench
- 1 x toolbox
- 1 x User Manual (EN)
- 1 x Certificate of Approval (EN)

Note: Please refer to the ordering information for specific configurations.

Technical Data Sheet



Technical data



Model	SDI-KIT-PM
Feed Water Pressure	0.24-0.5Mpa (35-70psi)
Filter Material	PP
Filter Membrane	0.45μm pore size, φ47mm, mixed cellulose ester (MCE)
Pressure Gauge	316SS, Accuracy Class 1.6
Inlet Connection	3/8" TPU tube
Application	Common Water
Sample Volume	500ml
Temperature	0-35℃
Standard	ASTM D4189-07 (2014)
Dimensions(mm)	350 × 270 × 132
Weight (kg)	2.4kg

SDI Boost Pump

Product Overview



The SDI Boost Pump is a dedicated pressurization device designed for SDI (Silt Density Index) testers, ensuring consistent inlet pressure (30 psi/2.07 bar) as required by ASTM D4189-07 (2014). When sample water pressure is insufficient, the pump can boost the pressure to 3-5 bar, eliminating test errors caused by pressure fluctuations and ensuring accurate and repeatable SDI values. Featuring a portable, compact design with adjustable pressure settings, it is compatible with various SDI meters and serves as an indispensable auxiliary device for monitoring pretreatment water quality in reverse osmosis systems.

Scope of Application	SDI Boost Pump Contents
<ul style="list-style-type: none">● High Output Pressure: Delivers up to 0.7MPa output pressure, meeting the needs of various SDI testing scenarios.● Precise Pressure Regulation: Built-in pressure regulator enables adjustable output pressure.● Visual Pressure: High-precision pressure gauge ensures precise pressure regulation.● Integrated Portability: Integrated design and durable engineering plastic housing, easy to carry..● Widely Applicable: Suitable for SDI testing scenarios with various low-pressure water sources.● Simple Operation: Plug-and-play, no specialized training required.	<ul style="list-style-type: none">1 x SDI booster pump3m x pipe 3/8 "PE2m x pipe 1/4 "PE5 x connectors1 x small wrench1 x PTFE Tape for Plumbing1 x User Manual (EN)1 x Certification Certificate (EN)

Technical Data Sheet



Technical data	 A black, rugged, rectangular device with a pressure gauge on top and electrical connections on the side.
Model	SDI-PUMP-01
Power	200-240VAC, 50Hz, 2.0A
Feed Water Pressure	5-30psi (0.35-2.07bar)
Pressure range	0-100psi (0-7bar)
Water Flow (L/min)	2L
Pressure Gauge	304SS, Accuracy Class 1.6
Inlet Connection	3/8" Quick union
Outlet Connection	3/8" Quick union
Application	Common Water
suction lift	2m
Temperature	0-35°C
Dimensions(mm)	350 x 280 x 150
Weight (kg)	5.6kg

Ordering Information

Product	Part No.	Configuration
1	FI-47	Manual SDI Kit (Simple or Standard or High)
2	SDI-KIT-AL	Manual SDI Kit (Simple or Standard or High)
3	FI-47-01	Manual SDI Kit (Simple or Standard or High)
4	SDI-KIT-HS	Manual SDI Kit (Simple or Standard or High)
5	SDI-KIT-SS	Manual SDI Kit (Simple or Standard or High)
6	SDI-KIT-S316	Manual SDI Kit (Simple or Standard or High)
7	SDI-KIT-PM	Manual SDI Kit, Portable (Simple or Standard or High)
8	MF04700	SDI filter membrane , Xuanyi,0.45um,φ47mm,100 /pk
9	HAWP04700	SDI filter membrane , Millipore,0.45um,φ47mm,100 /pk
11	A045A047A	SDI filter membrane , ADVANTEC,0.45um,φ47mm,100 /pk
10	SDI-PUMP-01	portable
High	including one SDI instrument, testing 100 filter membranes, one pair of tweezers, stopwatch, measuring cup, and toolbox each	
Standard	including one SDI instrument, testing 100 filter membranes, tweezers	
Simple	including one SDI instrument, testing 25 filter membranes	

Technical Data Sheet



Disclaimer

Specifications are subject to change without notice as part of our continuous product improvement program. Please ensure operators are trained on the correct procedure as detailed in ASTM D4189-07(2014). For SDI test concerns, please consult our technical support team.

Revision: 1.2

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