

WATER SAMPLE DIGESTION / DATA SHEET

SW51-01

16 VIALS REACTOR

Dual-zone sealed micro-reflux reactor for simultaneous digestion of up to 16 water samples.

Overview

- Sealed micro-reflux method with two independently controlled 8-well templates.
- Runs different indicators at different temperatures and times in parallel, with total capacity for 16 samples.
- Supports water-sample digestion for CODCr, CODMn, total phosphorus, total nitrogen, chromium, iron, copper, nickel and zinc.



16 SAMPLE CAPACITY	2 TEMPERATURE ZONES	40-180 °C CONTROL RANGE	±0.1 °C CONTROL ACCURACY
Key Features - Dual temperature and dual control. - Intelligent temperature control. - Over-temperature alarm and built-in heating curve. - High-definition touch screen.		Typical Applications - CODCr and CODMn digestion. - Total phosphorus and total nitrogen digestion. - Total chromium, iron, copper, nickel and zinc digestion.	

MEASUREMENT PRINCIPLE

Sealed Micro-Reflux Digestion

SW51-01 uses a sealed micro-reflux method. Two independently controlled 8-well templates can run digestion at different temperatures and times in parallel, allowing up to 16 samples to be processed simultaneously.

SYSTEM DATA

Technical Specifications

PARAMETER	SPECIFICATION
Temperature Control Range	40-180 °C
Digestion Temperature	40-180 °C
Temperature Control Accuracy	±0.1 °C
Sample Processing Quantity	16
Temperature Zone Quantity	2
Ambient Temperature	5-45 °C
Heating Time	From 25 °C to 165 °C in 20 min
Size	359 x 195 x 167 mm
Power Supply	DC 24 V / 12.5 A

PARAMETER	SPECIFICATION
Humidity	≤85% RH
Power	300 W
Weight	4 kg

OPERATION

Independent Dual-Zone Control

The two 8-well templates are independently controlled so different indicator groups can be digested under separate temperature and time conditions.

TEST INDICATORS

Typical Water-Sample Digestion

INDICATOR GROUP	SOURCE-IDENTIFIED INDICATORS
COD digestion	CODCr; CODMn
Nutrient digestion	Total phosphorus; total nitrogen
Metal digestion	Total chromium; total iron; total copper; total nickel; total zinc

ORDERING INFORMATION

Product Selection

MODEL	DESCRIPTION
SW51-01	16 Vials Reactor

CONTACT / SUPPORT

SpeSense Technologies Inc.

Add: No. 9 Yuhe Road, Guitang Subdistrict, Yuhua District, Changsha City

Tel: +86-15386478166

Email: info@spesense.com

Web: www.spesense.com



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