



## SA1100/50 Random Access Auto-sampler

The Skalar SA1100 sampler series have been designed to accommodate small-sized sample batches without compromising for flexibility and automation. Accommodating up to 100 samples, the SA1100 series offer convenience and additional features for complete automation of wet chemistry analysis. There are several options available to increase the flexibility of the auto sampler and allow it to be customized to meet various requirements. The SA1100 sampler is Random Access, as are all other existing Skalar samplers, which allows users to freely define sample positions and sampling order. When priority samples need to be analyzed, they can easily be inserted into the work list. During operation, status indication of the sampler is provided by LED indication. The end of the analysis is indicated by audio and visual alarms.



### Standard cup plate

The SA1100 auto-sampler has a standard capacity of 50 sampling positions for 8.5 ml or 3.5 ml cups. The capacity can be extended to 100 sampling positions of 3.5 ml cups divided into two rows of 50. This setup requires a second needle and a switching valve.

### Dual sample pick up

Equipped with a 2nd needle, the SA1100 Sampler allows dual pick up of two different samples (e.g. a digested and an extracted sample) by using 2 x 50 sampling positions of 3.5 ml cups.



### Special cup plate

When separate larger capacity standard positions are preferred an optional cup plate of 80 sampling positions and 10 standard positions can be used. The sampling positions are divided into two rows (2 x 40). For sample batches up to 40 samples (1 x 40) both 3.5 ml and 8.5 ml sample cups can be used. With an additional needle and switching valve batches of up to 80 samples can be analyzed with 3.5 ml sample cups. The 10 standard positions of 19 ml are available in both cases.

### Rinsing pump

The 4-channel build-in rinsing pump can provide two different rinsing liquids to the analyzer. This pump continuously refreshes the rinsing liquid without the use of any pump tube positions on the San<sup>++</sup> analyzer's main pump unit.

### Manual Control

In addition to the SA1100 sampler, the Skalar SA1150 Random Access auto-sampler is available. This auto-sampler has a similar configuration to the SA1100 sampler but can be controlled manually by an integrated soft keypad. The settings of sampling time, wash time and airtime can be manually defined with up to 4 digits displayed on the integrated LCD.



### Specifications for the SA1100

- \* Random Access PC controlled
- \* Cup plate configuration
  - 1 x 50 positions for 3.5 ml or 8.5 ml sampling cups, or
  - 1 x 100 positions for 3.5 ml sampling cups (requires additional valve assembly), or
  - 2 x 50 positions for 3.5 ml sampling cups for dual sample pick up (requires additional needle)
- \* 4 channel build-in rinsing pump
- \* Audiovisual status indication and alarms
- \* Dimensions (H x D x W) 26 x 36 x 47 cm
- \* Weight approx. 6 kg
- \* Power consumption max. 50 VA

### Additional specifications for the SA1150

- \* Soft Keypad for manual operation
- \* Integrated LCD
- \* 4-digit setting for sampling, wash and air time (1 to 9999 s.)
- \* Easy accessible menus for operation

### Optional

- \* Alternative cup plate features
  - 1 x 40 positions for 3.5 ml or 8.5 ml sampling cups, or
  - 1 x 80 positions for 3.5 ml sampling cups (requires additional valve assembly), or
  - 2 x 40 positions for 3.5 ml sampling cups for dual sample pick up (requires additional needle)
  - 2 x 5 standards positions of 19 ml



### Other Random Access Auto Samplers from Skalar



	SA1050 Sampler	SA1074 Sampler	SA1075 Sampler
Sample positions	140	300	540
Separate standard & QC/drift positions	20	40	26
Sample volume	3.5 or 10 ml	3.5 or 10 ml	3.5 or 10 ml
Sample needles	Up to two	Up to four	Up to four
Auto-diluter	Integrated, optional	Integrated, optional	Integrated, optional
Sample homogenizer	Yes, optional	Yes, optional	Yes, optional
Operation	Software	Software	Software
Power requirements	220-240 V or 110 V	220-240 V or 110 V	220-240 V or 110 V
Dpimensions HxDxW	55 x 60 x 55 cm	46 x 60 x 76 cm	57 x 70 x 85 cm
Weight	20 kg	28 kg	34 kg

**Skalar's Headquarters**  
**Skalar**  
 P.O. Box 3237  
 4800 DE Breda  
 The Netherlands  
 Tel. +31 (0)76 5486 486  
 Fax. +31 (0)76 5486 400

**USA**  
**Skalar, Inc.**  
 5995 Financial Drive, Suite 180  
 Norcross, GA 30071  
 Tel. + 1 770 416 6717  
 Toll Free: 1 800 782 4994  
 Fax. + 1 770 416 6718

**Germany**  
**Skalar Analytic GmbH**  
 Gewerbestraße Süd 63  
 41812 Erkelenz  
 Germany  
 Tel. + 49 (0)2431 96190  
 Fax. + 49 (0)2431 961970

**France**  
**Skalar Analytique S.A.R.L.**  
 79, Avenue Aristide Briand  
 94110 Arcueil  
 France  
 Tel. + 33 (0)1 4665 9700  
 Fax. + 33 (0)1 4665 9506

**United Kingdom**  
**Skalar (UK) Ltd.**  
 Breda House,  
 Millfield Industrial Estate,  
 Wheldrake, York, YO19 6NA  
 Tel. + 44 (0)1904 444800  
 Fax. + 44 (0)1904 444820

**Austria**  
**Skalar Analytic GmbH**  
 Am Anger 22  
 A-7451 Oberloisdorf  
 Austria  
 Tel. + 43 (0)2611 2023411  
 Fax. + 43 (0)2611 2023412

**Belgium**  
**Skalar Belgium bvba**  
 Antwerpsestraat 126  
 2850 Boom  
 Belgium  
 Tel. + 32 (0)3888 9672  
 Fax. + 32 (0)3844 3441



Email: [info@skalar.com](mailto:info@skalar.com)  
 ©Copyright Skalar 2008

Internet: [www.skalar.com](http://www.skalar.com)  
 Publication No. 0106012B. US

Skalar reserves the right to change specifications and appearance of the equipment without further notification.