







## **Compact & Easy Operability & Excellent Function**

### **Brand new user interface**

- Intuitive screen layout with a sense of unity
- Item parameter in one screen relieving the bother of page feeding

### **Upgraded operability**

- Various touch panel operation (swipe-to-select / drag & drop ) contributing to better facility of operation
- Enlarged touch buttons for reducing operation errors

### **Upgraded throughput**

270 tests/hour (maximum 450 tests/hour with ISE)

## Hemolysis of whole blood sample for HbA1c

Automatic process on board contributing to the test efficiency

### **Automatic sample clot detection**

Automatic detection & clean-up of sample probe clots (such as fibrin)

## **Crash prevention**

Prevent reagent & sample probes from crash during operation for safety

## **Automatic startup and shutdown**

Stress-free operation by cutting waiting time

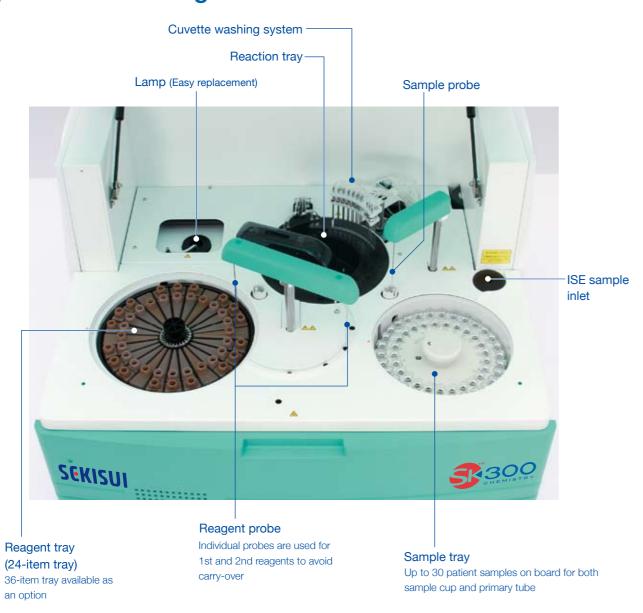
### **Ethernet connections**

 Ethernet connections between machine and operation PC for higher-speed and more stable communication

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# Main unit arrangement

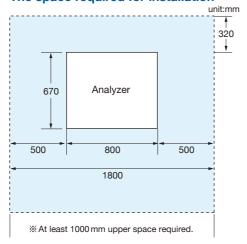


# Installation

### **Conditions**

Item	Description
	Analyzer
Dimensions and Weight	W800×D670×H555(mm) Approx. 95 Kg
Power supply	AC 100/115/220/230V, 50/60 Hz
Fower supply	Voltage fluctuation less than 10 %
Power consumption	600 VA
Grounding	Earth resistance of ground terminal should be
	less than 100 $\Omega$
Ambient temperature	15~30°C
Humidity	45~85 % (No condensation)
Water consumption	Max 3.8L/hour
Waste liquid	Separate drainage (low and high density waste)

### The space required for installation



# **Specifications**

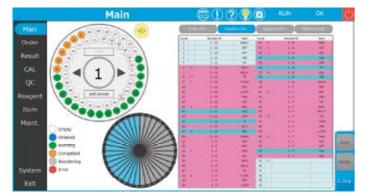
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Analysis	System	Discrete single line random access multi-test analysis
	Number of test items on board	36+3 (ISE) or 24+3 (ISE)
	Throughput	270tests/hour, 450tests/hour including ISE, 90tests/hour for HbA1c only
	Analysis method	End point, Rate, ISE
	Calibration curve	8kinds (linear , spline, etc)
Sample	Sample kind	Serum, Plasma, Blood cell, Urine, Dialisys, CSF (ISE not available for CSF and Blood cell)
	Sample container	Sample cups , primary tube (5, 7, 10 ml)
	Number of samples on board	Software tray (30 positions for patient sample, and 45 positions for standard and blank sample
	Sample tray mode	Selectable modes for patient sample, calibration and QC
	(software tray)	
	Sample dispensing volume	2.0 ~ 25.0 µl (0.1 µl step)
	Dilution ratio	0.5 ~ 100 times
	STAT	available during measurement (step between samples by priority)
Reagent	Reagent tray	36 items or 24 items (removable)
	Number of bottles on board	72 (36 items) or 48 (24 items)
	Bottle size	36items: 13, 25, 40 ml
		24items : 20, 40, 60 ml
	Reagent dispensing volume	R1: 140~300 µl (1µl step), R2: 20~260 µl (1µl step)
	Reagent storage	24 hours cooling
	Reagent volume check	Level sensing or count down
	Cuvette material	Plastics (semi-disposable)
	Reaction volume	140 µl ~ 400 µl
	Reaction time	approx 10min. (1st reaction 5min., 2nd reaction 5min.)
Reaction	Reaction temperature	37±0.1℃
	Optical measurements	Fixed 13 wavelengths (340 ~ 800 nm)
	Optical source	Tungsten halogen lamp
	Optical range	OD 0~2.5
	Cuvette washing	Auto washing with heated water and 2 kinds of washing solutions
	Reaction waste collection	Reaction waste stored in a dedicated tank
	Pure water consumption	Maximum 3.8L/hour
Interface	Operation	Personal computer
	OS	Windows 10
	Reaction monitor	Optical absorbance graphic display
	Quality control	Current, Daily and Cumulative QC. Westgard algorithms
	Output	Ethernet connection
Option	ISE module	
	Sample barcode reader, Reagent barcode reader	

\* Specifications are subject to change without notice.



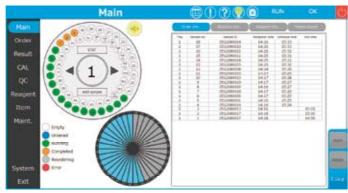
## User Interface

#### Run monitor screen



Monitor measurement info by cycles

### Journal screen



View sample ordered time and result out-put time

#### **Order screen**



Easy to select test items by swiping the touch screen

### QC graph screen



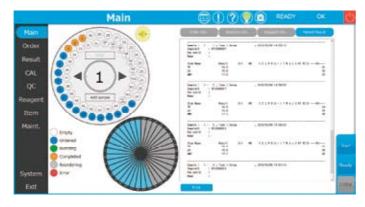
Current, daily, and cumulative QC

### Auto startup & shutdown screen



Auto maintenance available before shutdown

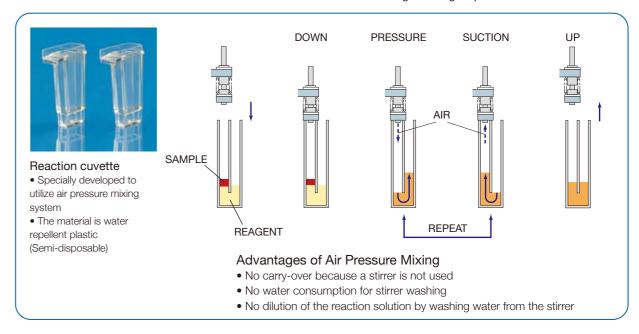
#### Result screen



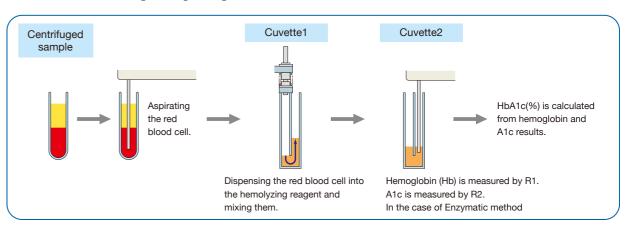
Show current day test results (Separate printer needed for output)

## Air pressure mixing system

Our original system for mixing the sample and reagent using air pressure alone.



# HbA1c sample preparation and measurement



# ISE module (OPTION)

