

Product Fact Sheet

XN-1000



Product name

XN-1000

Manufacture information

Sysmex Corporation
www.sysmex-europe.com

Summary

The XN-1000 instrument provides the full flexibility of profiles in haematology testing; tailor made for each individual laboratory's need by patient collective and sample types. It targets at laboratories with a medium workload where 100 samples/h are a sufficient throughput.

Additionally, the option for an intelligent built-in reflex functionality of the XN-1000 allows streamlining the workflow and a significant increase in the walk-away time.

The modularity of the configurations does not only target at diagnostic applications, but also comprises components supporting the organisation of the workplace. Haematology work area allowing space for all associated components underneath the system.

Productivity values

- The first step into full automation: excellent productivity per square metre
- Increased walk-away time of the analysis process by the special reflex functionality. A sample in the exit position of the sampler is finished.
- Decreased TAT by minimising manual work steps such as sorting of samples for reflex testing
- Reduction of smears by diagnostic applications

Clinical values

- Various configurations of the haematology units XN-10 and XN-20 with XN-added values are available

Configurations

No.	Name	Application	Description
1	XN-1000 [DIFF]	 	1 XN-10 unit with a sampler for CBC+DIFF screening
			Optional BF mode
2	XN-1000 [RET]	  	XN-10 unit with a sampler for CBC+DIFF screening + RET
			Optional BF mode
3	XN-1000 [PLT-F]	  	XN-10 unit with SA-10 reflex sampler for CBC+DIFF screening + advanced PLT-F and reflex testing
			Optional BF mode
4	XN-1000 [RET/PLT-F]	   	XN-10 unit with SA-10 reflex sampler for CBC+DIFF screening + RET + advanced PLT-F and reflex testing
			Optional BF mode

5 XN-1000 [WPC]		XN-20 unit with SA-10 reflex sampler for CBC+DIFF screening + RET, advanced flagging performance and reflex testing
		Optional BF mode
6 XN-1000 [WPC/PLT-F]		XN-20 unit with SA-10 reflex sampler for CBC+DIFF screening + RET + advanced PLT-F, advanced flagging performance and reflex testing
		Optional BF mode

Main components

Article no.	Item	Description	Qty
AP795756	XN-10 haematology unit	Unit for screening and reflex testing for the configuration 1,2,3,4	0 or 1
AE797961	XN-20 haematology unit	Unit for screening and reflex testing incl. WPC for the configuration 5 and 6	0 or 1
CR690716	Sampler for XN-1000	Sampler with reflex capability standard for configuration 3,4,5 and 6	1
BH902158	Supply parts for SA-10	Supply parts for the SA-10 sampler	1
BB502040	XN-1000 supply parts	IFU, cables, tubes etc.	1
01330061	Pneumatic unit	External pneumatic unit for XN instruments	1
3700037	Monitor arm	Monitor arm to connect the IPU touch screen	1
37000088	XN IPU	Instrument processing unit to operate the analyser	1
37000033	XN touch panel	Touch screen for XN IPU	1

Specifications

Feature	Description
Diagnostics parameters (whole blood)	Up to 38 depending on the configuration (refer to "PFS_XN-10" or "PFS_XN-20")

Research parameters (whole blood)	Up to 50 depending on the configuration (refer to "PFS_XN-10" or "PFS_XN-20")
Scattergram & histogram	Up to 23 scattergrams Up to 4 histograms
Diagnostics parameters (body fluid)	7 (refer to "PFS_XN-10" or "PFS_XN-20")
Research parameters (body fluid)	11 (refer to "PFS_XN-10" or "PFS_XN-20")
Discrete mode profiles	(refer to "PFS_XN-10" or "PFS_XN-20")
Technologies	Fluorescence flow cytometry, impedance, hydrodynamic focussing, SLS for haemoglobin
Throughput	CBC Up to 100 samples/hour CBC+DIFF Up to 100 samples/hour CBC+DIFF+RET Up to 83 samples/hour CBC+RET Up to 83 samples/hour Body fluid analysis Up to 40 samples/hour (BF modus only)
Sampler unit loading capacity	5 racks (50 samples)
STAT function	Approx. 1 min by using the manual mode
Reagent management	Always available
Data storage	Analysis registration function 2,000 records Samples (incl. graphics) 100,000 results (including histograms and scattergrams) Patient information 10,000 records Wards registered 200 wards Doctors names registered 2,000 records Selective test orders 12 discrete profiles (depending on the configuration) Quality control files 99 files 300 plots x 94 files (L-J control) 300 plots x 5 files (XbarM control) Reagent replacement history 5,000 records Maintenance history 5,000 records

Dimension	
Main unit (incl. SU*)	645x855x755mm (WxHxD)
Pneumatic unit	280x400x355mm (WxHxD)
Weight	
Main unit (incl. SU*)	Approx. 78kg
Pneumatic unit	Approx. 17kg
QC functions	
Xbar and or L-J	300 plots x 94 files (L-J control)
Xbar M	300 plots x 5 files (XbarM control)
Interface	LP, DP, GP, host computer via LAN
Operative temperature	15 to 30 °C
Operative humidity	30 to 85%
Power requirement	
Main unit	AC 100 to 240V (50/60Hz)
Sampler	AC 100 to 240V +/-10%
Pneumatic unit	AC 220 to 240V (50/60Hz)
Power consumption	
Main unit	270VA or less
Sampler	110VA or less
Pneumatic unit	50Hz: 230VA or less (100-117V), 220VA or less (220-240V) 60Hz: 280VA or less (100-117V), 250VA or less (220-240V)

*Sampler Unit

Possible configurations	Description
Sampler SA-01	Without reflex capability
Sampler SA-10	With reflex capability

Reference: XN-1000 IFU EU 1105