Product Fact Sheet
XN-1000

Rerun & Reflex

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

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Configurations

No.	Name	Application	Description
1 XN-1000 [DIFF]		XN-CBC XN-DIFF	1 XN-10 unit with SA-10 reflex sampler for CBC+DIFF screening
		XN-BF	Optional BF mode
2 XN-1000 [RET]		XN-CBC XN-DIFF RET	XN-10 unit with SA-10 reflex sampler for CBC+DIFF screening + RET
		XN-BF	Optional BF mode
3 XN-1000 [PLT-F]		XN-CBC XN-DIFF PLT-F	XN-10 unit with SA-10 reflex sampler for CBC+DIFF screening + advanced PLT-F and reflex testing
		XN-BF	Optional BF mode
4 XN-1000 [RET/PLT-F]		XN-CBC XN-DIFF RET PLT-F	XN-10 unit with SA-10 reflex sampler for CBC+DIFF screening + RET + advanced PLT-F and reflex testing
		XN-BF	Optional BF mode
5 XN-1000 [WPC]		XN-CBC XN-DIFF RET WPC	XN-20 unit with SA-10 reflex sampler for CBC+DIFF screening + RET, advanced flagging performance and reflex testing
		XN-BF	Optional BF mode
6 XN-1000 [WPC/PLT-F]		XN-CBC XN-DIFF RET 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
		XN-BF	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
CP366273	Sampler for XN-1000	SA-10 sampler SUPPLY PARTS	1
01330061	Pneumatic unit	External pneumatic unit for XN instruments	1
3700037	Monitor arm	Monitor arm to connect the IPU touchscreen	1
37000088	XN IPU	Information processing unit to operate the analyser	1
37000033	XN touch panel	Touchscreen for XN IPU	1

Optional components

Article no.	Item	Description	Qty
BE999446	WG-21 COMPLETE	Optional wagon (WG-21) for XN-1000	1
ZE000707	USB 2.0 CABLE 4,5 MTR* Typ A/B	Connection between touchscreen monitor and XN IPU if monitor arm is used	1[1]
ZE000705	POWER CABLE FOR DA-10 5 MTR BLACK	Power cable extension for EU/AP for touchscreen monitor if monitor arm is used	1[1]
ZE000706	DVI MONITOR CABLE FOR DA-10	Extension cable for monitor if monitor arm is used - DVI Digital Dual Link Cable	1[1]
57.182	ViewMaster M6 Monitorarm	XN-1000 monitor arm for touchscreen, desk or WG-21 mount	1[1]
53.042	ViewMaster M Extension	XN-1000 monitor arm extension	1[1]

[1] - These items must always be ordered together with the wagon! Please always refer to the latest XN Series Solutions BOM for ordering and for possible optional components.

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 CBC+DIFF CBC+DIFF+RET CBC+RET Body fluid analysis	 Up to 100 samples/hour Up to 100 samples/hour Up to 83 samples/hour Up to 83 samples/hour 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	5,000 records

replacement history	
Maintenance history	5,000 records

Dimension	
Main unit (incl. SU*)	645x755x855 mm (WxDxH)
Pneumatic unit	280x355x400 mm (WxDxH)
Wagon WG-21	1.000x1.140x706 mm (WxDxH)
Weight	
Main unit (incl. SU*)	Approx. 78 kg (1 x XN10/20 + docking base + SA-10)
Pneumatic unit	Approx. 17 kg
Wagon WG-21	Approx. 110 kg
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 Sampler Pneumatic unit	 AC 100 to 240 V (50/60 Hz) AC 100 to 240 V +/-10 % AC 220 to 240 V (50/60 Hz)
Power consumption Main unit Sampler Pneumatic unit	 270 VA or less 110 VA or less 50 Hz: 230 VA or less (100-117 V), 220 VA or less (220-240 V) 60 Hz: 280 VA or less (100-117 V), 250 VA or less (220-240 V)

*Sampler Unit

There is the option for a non-reflex sampler for some XN-1000 configurations. For further information please refer to PFS_XN-1000 SA-01.

Reference: XN-1000 IFU 1402