

Product Fact Sheet

XP-300



Product name

XP-300

Manufacture information

Sysmex Corporation

www.sysmex-europe.com

Summary

XP-300 is a fully automated haematology analyser, easily fitting into any laboratory and ideal as a backup analyser to the Sysmex full differential analyser systems.

Productivity values

XP-300 improves the laboratory productivity with technical solution that makes the daily operation easier and safer, such as:

- integrated bar code reader for a better sample and reagent traceability
- easy software usability with the colour LCD touch screen
- error log capacity
- optimal serviceability of the instrument is with a memory card for easy setup, backup and restore operation

- additional LAN port connection for an optional SNCS IQAS Online capability

The advanced reagent management via unique barcode and the easy serviceability of the instruments will reduce the efforts needed in the pre-analytical and post-analytical phases.

Clinical values

The XP-300 delivers high quality in analytical performance, with focus on reliability and improved reproducibility for the basic routine haematology tests. Consistency, confidence and trust in the results are particularly important for clinicians to make the appropriate decision and optimising patient care and safety.

XP-300 counts neutrophils as a distinct group on the basis of the chemical makeup of the reagents. The absolute neutrophil count is valuable in assessing acute phase inflammatory and infectious conditions; serving as an early marker of disease hence a separate neutrophil count has superior clinical utility than that of a monocyte count.

Main and optional components

Main component		
Article no.	Item	Qty
AP807129	XP-300 Complete	1
Standard Accessories		
Article no.	Item	Qty
38000340	Handheld BR Gryphon	1
38000310	Cable CAB-320	1
Optional components		
Article no.	Item	Qty
38000306	Gryphon Retail Stand	1
38000305	Gryphon Desk/-Wall Holder	1
	External printer (could be provided locally)	1
	Printer connection cable for external printer (could be provided locally)	1

Reagents

Article no.	Item	Qty
83401621	CELLCLEAN	50 mL
83400116	CELLPACK	20 L
834001110	CELLPACK	10 L
97405216	STROMATOLYSER-WH	3x 500 mL

Quality control and calibration

Article no.	Item	Qty
90406019	EIGHTCHECK-3WP L	12x 1.5 mL
90406116	EIGHTCHECK-3WP N	12x 1.5 mL
90405919	EIGHTCHECK-3WP H	12x 1.5 mL
87400711	EIGHTCHECK-3WP L	12x 4.6 mL
87400517	EIGHTCHECK-3WP N	12x 4.6 mL
90405811	EIGHTCHECK-3WP H	12x 4.6 mL
216992	SCS-1000 Calibrator	3x 2 mL

Specifications

Feature	Description
Parameters (Whole blood mode)	20 WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, LYM% (W-SCR), MXD% (W-MCR), NEUT% (W-LCR), LYM# (W-SCC), MXD# (W-MCC), NEUT# (W-LCC), RDW-SD, RDW-CV, PDW, MPV, P-LCR, PCT
Parameters (Pre-diluted mode)	20 WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, LYM% (W-SCR), MXD% (W-MCR), NEUT% (W-LCR), LYM# (W-SCC), MXD# (W-MCC), NEUT# (W-LCC), RDW-SD, RDW-CV, PDW, MPV, P-LCR, PCT
Technologies WBC RBC/PLT HGB	DC detection mode DC detection mode Non-cyanide haemoglobin detection method
Throughput	Approx. 60 samples/hour
Required sample vol. Whole blood mode Pre-diluted mode	Approx. 50 µL Approx. 20 µL

Feature	Description
Aspiration volume Whole blood mode Pre-diluted mode	Approx. 50 µL Approx. 200µL (diluted blood) Blood volume required for the pre-dilution is 20 µL or more.
Precision (Whole blood mode) WBC RBC HGB HCT MCV MCH MCHC PLT RDW-CV RDW-SD PDW MPV P-LCR PCT LYM# NEUT# MXD# LYM% NEUT% MXD%	3.5% or less ($4.0 \times 10^3/\mu\text{L}$ or more) 2.0% or less ($4.00 \times 10^6/\mu\text{L}$ or more) 1.5% or less 2.0% or less 2.0% or less 2.0% or less 2.0% or less 2.0% or less 6.0% or less ($100 \times 10^3/\mu\text{L}$ or more) 4.0% or less 4.0% or less 12.0% or less 5.0% or less 20.0% or less 9.0% or less 15.0% or less 15.0% or less 30.0% or less ($1.0 \times 10^3/\mu\text{L}$ or more) 15.0% or less 15.0% or less 30.0% or less (12 W-MCR% or more)

Feature	Description
Precision (Pre-diluted mode)	
WBC	6.0% or less ($4.0 \times 10^3/\mu\text{L}$ or more)
RBC	3.0% or less ($4.00 \times 10^6/\mu\text{L}$ or more)
HBG	2.5% or less
HCT	3.0% or less
MCV	3.0% or less
MCH	3.0% or less
MCHC	3.0% or less
PLT	9.0% or less ($100 \times 10^3/\mu\text{L}$ or more)
RDW-CV	6.0% or less
RDW-SD	6.0% or less
PDW	18.0% or less
MPV	7.5% or less
P-LCR	30.0% or less
PCT	13.5% or less
LYM#	25.0% or less
NEUT#	25.0% or less
MXD#	45.0% or less ($1.0 \times 10^3/\mu\text{L}$ or more)
LYM%	25.0% or less
NEUT%	25.0% or less
MXD%	45.0% or less (12 W-MCR% or more)
Linearity (Whole blood mode)	
WBC	$\pm 0.3 \times 10^3/\mu\text{L}$ ($1.0 - 9.9 \times 10^3/\mu\text{L}$) $\pm 3.0\%$ ($10.0 - 99.9 \times 10^3/\mu\text{L}$)
RBC	$\pm 0.03 \times 10^6/\mu\text{L}$ ($0.3 - 0.99 \times 10^6/\mu\text{L}$) $\pm 3.0\%$ ($1.00 - 7.00 \times 10^6/\mu\text{L}$)
HGB	$\pm 0.2 \text{ g/dL}$ ($0.1 - 9.9 \text{ g/dL}$) $\pm 2.0\%$ ($10.0 - 25.0 \text{ g/dL}$)
HCT	$\pm 1.0 \text{ HTC}\%$ ($10.0 - 33.3\%$) $\pm 3.0\%$ ($33.4 - 60.0\%$)
PLT	$\pm 10 \times 10^3/\mu\text{L}$ ($10 - 199 \times 10^3/\mu\text{L}$) $\pm 5.0\%$ ($200 - 999 \times 10^3/\mu\text{L}$)
Carry over	
WBC	3.0% or less
RBC	1.5% or less
HGB	1.5% or less
HCT	1.5% or less
PLT	5.0% or less
Data storage	Up to 40.000 with histograms
Dimension	
Main unit	420 (W) x 355 (D) x 480 (H) mm
Weight	
Main unit	Approx. 30 kg
Quality control	60 plots x 6 files

Feature	Description
Interface	RS-232C 2x Ethernet (RJ45) Bar code port Parallel port Serial port
Operative temperature	15°C to 30°C
Operative humidity	30% to 85%
Power requirement	120/220/230/240 VAC $\pm 10\%$ (50/60 Hz)
Power consumption	Approx. 200 VA or less

Reference: XP-300 IFU