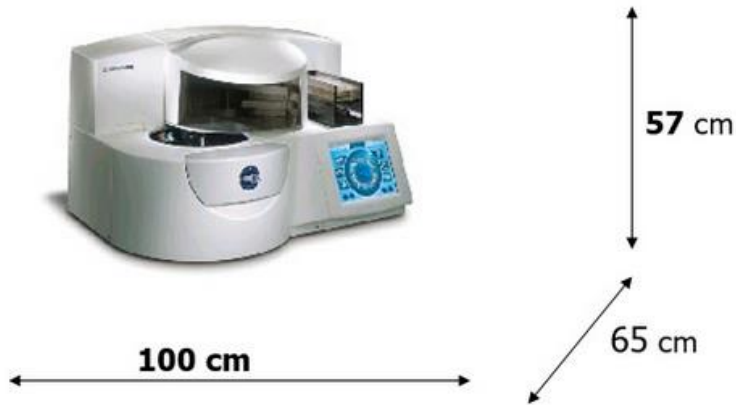


Pentra 400



Bench-top analyzer

Dimensions :
100 x 65 x 57 cm

Weight : 120 kg

Screen:
12 inches

Sample Handling

Sample Capacity

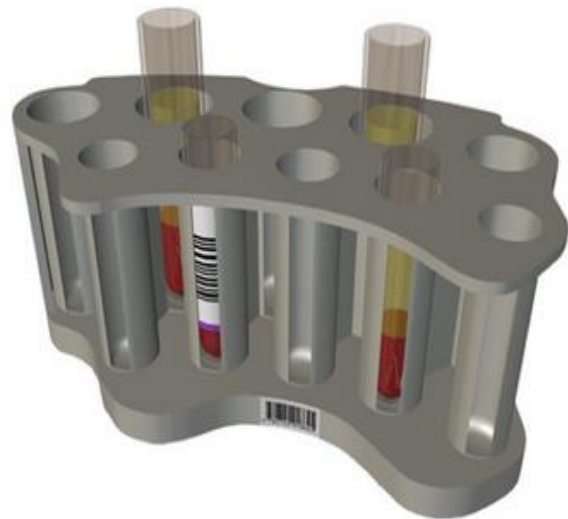
- 50 samples on board + Continuous loading
- 5 Racks with 10 sample positions for primary tubes or cups

Positive Sample Identification

- Integrated Barcode Reader and tube presence detector

Sample Needle

- Level detection
- Shock detection
- Clot detection



Sample Handling

Sample Specimen

- Serum, Plasma, Urine, CSF, Whole blood, Homogeneous fluids

Sample Volume

- Photometry mode: 2 to 90 μ L (380 in F steps)
- ISE mode : 60 μ L

Automatic Sample Dilution

- from 1/2 to 1/22 Δ 00

Automatic Post Concentration

- from x2.0 to x10.0



Reagent Handling

Reagent Management with Cassettes

- Automated Reagent On board stability check plus test countdown
- Unique cassette barcode
- back-up cassette

Reagent Volume

- Minimum : 2 μ L with Sample needle
10 μ L with Reagent needle
- Maximum : 600 μ L



Reaction Handling

Reaction Cuvettes

- Disposable acrylic cuvettes
- Cuvette volume : Min 10- μ l - Max 600- μ l

Automatic Cuvette Changer

- Continuous loading and unloading of cuvette segments

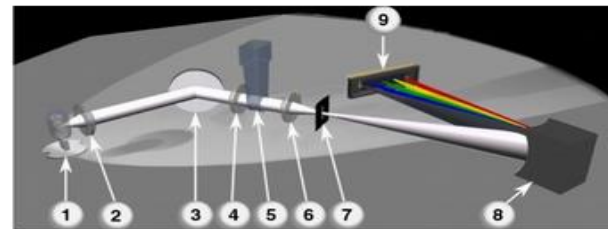
- Total Capacity : 36 segments (FR cuvettes)

Reaction Temperature

- Temperature controlled Air bath at 37°C Mixing
- By Rotation

Incubation Time

- 1 to 100 cycles (12 seconds to 20 minutes)



- 1 = Tungsten-halogen lamp
- 2 = Condensing lens
- 3 = Folding mirror
- 4 = Shaping lens
- 5 = Cuvette
- 6 = Coupling lens
- 7 = Spectrograph entrance slit
- 8 = Concave reflective grating
- 9 = Photodiode array



Patient management

- Worklist generated by a manual entry or uni-/bi-directional connectivity
- Automatic validation based on user defined rules
- Intuitive delta checking
- Monitors panic values



- Secured results validation
- Reliable traceability in compliance with accreditation standards

Patient **Collection** **Control**

Patient Demographics

Patient ID: 1001

Last Name: Hernandez

First Name: Antonio

Date of Birth: 07/14/2011 Age: 36 Gender: Unknown

Sample Characteristics

Sample ID: 1001001 Position: 4201 Collection Date: 07/14/2011 00:00

Sample Type: Urine Semen / Plasma: Plasma

Department: Physician Consent: Consent

Analysis Result

Pos	Test	Result(s)	QF	QC	Analysis flag	QC/QC	Unit	Decision
4201	Hb	0.30	0.30	0.30	ANALYSIS_FLAG	QC	Unit	☒ Accept
10	Hb	0.30	0.30	0.30	ANALYSIS_FLAG	QC	Unit	☐ Reject
07/14/2011 11:35:40	Hb	0.30	0.30	0.30	ANALYSIS_FLAG	QC	Unit	☐ Modify
07/14/2011 11:35:14	Hb	0.30	0.30	0.30	ANALYSIS_FLAG	QC	Unit	☐ Delete

Status: [OD: Values] Control

Save valuable time

Automatic reagent management

- Intelligent monitoring of reagent supply: the "work balance" function assesses the stock on board relative to the workload requirements
- Use limit date and calibration validity checks

Real-time workflow follow-up

- Control all operations from the main screen(system, reagent and sample status)
- Dynamic display of the test results and sampling exceptions with the test review function

Evolution requested	Capacity requested	Percent on storage tag	Lot #	Position	Stat #
ALB	4 Tests	100 Tests	011000007		ACT
ALP_R	0.0400 HL		91	04-B	ACT
ALPH	0.0001 HL		—	04-A	ACT
CHAB	0.4000 HL		00050403	03-B	ACT
			00050724	00-B	ACT
CLCA	0.0020 HL				
COB	12 Tests	200 Tests	001200030	10	ACT
CLPH	0 Tests	200 Tests	022000004	0	ACT
CHL	0 Tests	200 Tests	010022043	17	ACT
COA	0.4000 HL		00014	00-B	ACT
COO	0.0001 HL		00133	00-A	ACT
LACT	1.0000 HL		—	01-B	ACT
MO	1.2000 HL		—	01-A	ACT
PHYS	0.0300 HL		PH0	00-C	ACT
SCA	1.5404 HL				
TBL	0 Tests	200 Tests	002043000	00	ACT
T	0 Tests	200 Tests	020011000	0	ACT

☐ Tables on tag
 ☐ Worksheet

Cost control

- Optimized number of tests per cassette
- Minimal calibrations
- Rerun analysis according to laboratory defined rules
- Activity analytics with the test counter function

The screenshot shows the 'Test Counter' window with a list of tests and their counts. The table has columns for Selection, Channel #, Current code, Control, Calibration, and Patient. The bottom summary table is as follows:

	Control	Calibration	Patient	Reportable	Rerun	% Rerun	Reportable
Total selected	5	15	64	64	0	0.00	0
Total all	407	730	4114	2915	18	0.62	5

با این دستگاه محدودیتی در نصب و راه اندازی تست های خاص نخواهید داشت.

برخی پنل های خاص نصب شده در دستگاه:

- 6-Acetylmorphine
- Amphetamines
- Barbiturates
- Benzodiazepines
- Buprenorphine
- Cannabinoids
- Cocaine
- Ethanol
- Hydrocodone
- LSD
- Methadone
- Methadone
- Methaqualone
- Opiates
- Oxycodone
- Phencyclidine
- Propoxyphene
- Barbiturates
- Benzodiazepines

- Acetaminophen
- Amikacin
- Carbamazepine
- Cyclosporin
- Digoxin
- Gentamicin
- Lithium
- Methotrexate
- Phenobarbital
- Phenytoin
- Theophylline
- Valproic Acid
- Vancomycin

- CH50
- IgM CSF
- IgA CSF
- IgG CSF
- β 2-Microglobulin
- Cystatin C
- Microalbumin
- α -1-Antitrypsin
- α -2-Macroglobulin
- Anti-Streptolysin O
- Caeruloplasmin
- Haptoglobin
- Lipoprotein(a)
- Transferrin
- ACE
- ADA

- Procalcitonin
- Vitamin D
- Vitamin B12
- Folate
- Homocysteine
- Anti CCP
- D-Dimer
- Freelite Kappa
- Freelite Lambda
- IgG1
- IgG2
- IgG3
- IgG4
- C1 Inactivator

