cobas® 4800 System Technical specifications

cobas x 480 Instrument

The **cobas x** 480 instrument is designed for automated multi-channel pipetting used to extract, purify and prepare target nucleic acid for subsequent real-time PCR testing on the cobas z 480 analyzer.

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The type and specification of the barcode scanner are subject to change without notice. The specifications listed apply to the type and specification provided at the time of publication of the Operator's Manual.

Physical dimensions

Width	Depth	Height	Weight
65.55 in (166.5 cm)	30.5 in (77.5 cm) instrument base	35.6 in (90.5 cm)	397 lb. (~180 kg)
	39.76 in (101 cm) w/autoload tray		
	47.2 in (120 cm) w/carriers on autoload tray		

Power requirements

а	utoload tray
Line voltage	115 VAC (-15%) to 230 VAC (+10%)
Line frequency	50 or 60 Hz (±5 Hz)
Power consumption	Max. 600 VA
Installation category	II
Fuses (delayed action)	115 V~: 6.3 A 230 V~: 3.15 A
Temperature	Running conditions:

Environmental conditions

User interface	cobae //200 software running on
Altitude	100 - 6,500 ft (30 - 2,000 m) above sea level
Pollution	Level 2 (EN 61010-1, IEC 60664-1)
Noise	<65 dBA
Humidity	Running conditions: 15% – 85%, without condensation
Temperature	Running conditions: 59°F to 86°F (15C° to 30°C) Transport/storage: -13°F to 158°F (-25°C to 70°C)
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Interfaces

User interface	cobas 4800 software running on cobas 4800 software control unit
Instrument interface	cobas x 480 instrument is con- nected to the cobas 4800 software control unit through a USB connec- tion; place the software control unit close to the instrument and use the originally delivered USB cable only

AA/	acta
vv	asıc

Solid waste	 Small waste bag holds used pipetting tips for 1 full run (maximum) Large waste bag holds used pipetting tips for 3 full runs (maximum)
Liquid waste	Liquid waste container holds liquid

Barcode Scanner

	 Large waste bag holds used pipet- ting tips for 3 full runs (maximum) 	
Liquid waste	Liquid waste container holds liquid waste	
Barcode types	Codabar (w/out check sum) Code 39 (w/out check sum) Code 128, subset B and C (w/check sum)	
Supported characters (Code 128 B and C)	SP!"#\$%&'()*/1234567890:;<=>? @ABCDEFGHIJKLMNOPQRTSUV WXYZ\]^_`abcdefghijklmnopqrstu vwxyz{ }~	
Not supported characters (Code 128 B and C)	+,[Del	
String length	Max 20 characters, excluding start, stop and check characters (depends on label length)	
Code density tolerance	Best reading performance with X dimension between 0.0075 in (0.19 mm) and 0.01 in (0.25 mm)	
Quiet zone	≥ 10 times the X dimension, at least 0.12 in (3 mm)	
Print quality	Printing with ANSI/CEN/ISO grade A or B required Suitable for offset, typographic, intaglio and flexographic printing Not suitable for mechanical dotmatrix and thermomatrix printing	
Line voltage	100 - 240 VAC	

Heater/shaker

Line voltage	100 - 240 VAC	
Line frequency	50 - 60 Hz	
Consumption	70 VA	

Every effort has been made to ensure that all the information contained in these specifications is correct. However, Roche reserves the right to make any changes necessary without notice as part of ongoing product development.





cobas[®] **4800 System** *Technical specifications*

cobas z 480 Analyzer

The **cobas z** 480 analyzer is designed to perform real-time PCR amplification and detection.

Physical dimensions

Width	Depth	Height	Weight
22.6 in	23.1 in	19.6 in	121.25 lb.
(57.4 cm)	(58.8 cm)	(49.7 cm)	(55 kg)
31.1 in			
(79 cm)			
w/extended			
microwell plate			
loader			

Power requirements

Line voltage	200 - 240 VAC	
Line frequency	50 or 60 Hz	
Power consumption	1,500 VA	
Fuses (delayed action)	Primary fuses: • 250 V/T10 A Lamp fuse: 250	Secondary fuses: • F1: 250 V/T3.15 A • F2: 250 V/T8 A • F3: 250 V/T16 A V/T2.5 A

Environmental conditions

Temperature	 Running conditions: 59°F to 90°F (15°C to 32°C) Transport/storage: -13°F to 140°F (-25°C to 60°C)
Humidity	Running conditions: • Max 80% at 90°F (32°C), w/out condensation • Min 30% at 59°F to 90°F (15°C to 32°C)
Noise	<60 dBA
Altitude	0 - 6,500 ft (0 - 2,000 m) above sea level

Interfaces

User interface	rface cobas 4800 software running on the cobas 4800 software control unit	
Instrument interface	cobas z 480 analyzer is connected to the cobas 4800 software control unit through an Ethernet LAN	

cobas x 480 System control unit

NOTICE

The type and specification of the control unit and the barcode scanner are subject to change without notice. The specifications listed below apply to the type and specification provided at the time of publication of the Operator's Manual.

Physical dimensions

Width	Depth	Height
7 in	23.1 in	18 in
(17.8 cm)	(58.8 cm)	(45.7 cm)

Software

Operating system	Microsoft Windows® XP Professional, SP 2
Database	Oracle Database Enterprise Edition

Handheld barcode scanner

Туре	IT4600	
Interface	Handheld scanner connected to control unit through keyboard interface	
Skew angle Pitch angle	± 40° ± 40°	
Motion tolerance	4 in (10 cm) per second	
Scan contrast	45% minimum for Matrix codes 37.5% minimum for all others	
Temperature	Operating: 32°F to 122°F (0°C to 50°C) Storage: -40°F to 158°F (-40°C to 70°C)	
Humidity	0% - 95% non-condensing	

UPS (Uninterrupted Power Supply)

Connection

Physical	
dimensions	

Width	Depth	Height
11.8 in (30 cm)	31.9 in (81.1 cm)	28.9 in (73.4 cm)
Line voltage	Dedicated 220 VAC ± 10%	
Line frequency	50 or 60 Hz	

NEMA 6 - 20R

Power requirements

For more information, contact your Roche Molecular Diagnostics Representative, visit www.MyLabOnline.com or call 1-800-981-8863.

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