

# DuPont Qualicon BAX<sup>®</sup> System Q7 Spec Sheet

## System components

- BAX<sup>®</sup> Q7 cycler/detector
- Computer workstation and printer
- BAX<sup>®</sup> system application and MS Windows<sup>®</sup> OS
- Installation and training

## Also delivered with system

- License to perform PCR
- Heating block assemblies
- Cooling block assemblies
- Capping/decapping tools
- Pipettes
- Start-up supplies
- Documentation

## Customer-supplied requirements

- BAX<sup>®</sup> system PCR assays
- Enrichment media
- Hypochlorite bleach and other standard solutions
- Refrigeration (2-8°C) for kits and cooling blocks
- Stomachers, incubators for enrichment
- Cell disrupter device for yeast and mold samples

## Customer-supplied recommended options

- Uninterruptible power source – 2.2 kVa
- Line noise filter – 2.2 kVa
- Surge protector – 10 kVa

## Q7 instrument specifications

- 14" wide x 18" deep x 20" high (34 x 45 x 49 cm)
- Approximately 75 pounds (34.1 kg)
- Power usage: 950 W (1080 watts)
- 120 VAC ± 10%, 50/60 Hz ± 1%, 15 amp circuit, grounded outlet, nominal current draw: 8A
- 5 excitation and 5 emission filters
- Two 12.5 A, 250 V, 5x 20 mm fuses
- Halogen bulb: 12 V, 75 W
- Thermal range: 4-100°C
- Thermal homogeneity ±0.5°C well-to-well within 30 seconds of reaching 60°C
- Sample ramp rate: +/- 1.6–3.5°C per second
- Peak block ramp rate: 5.5°C per second
- Warm up time: 5 minutes or less from 25°C start
- 65 decibels maximum

## Environment

- Altitude at or below 2000 m (6500 ft) above sea level
- Temperature 10-35°C (50-95°F)
- Relative humidity 20-80% (noncondensing)
- Locate away from heaters, cooling ducts and out of direct sunlight; protected from accidental spills
- Non-conductive pollutants only

## Throughput

- 96 PCR tubes every 2–2.5 hours (amplification)
- 96 PCR tubes every 1 hour (detection)
- 96 PCR tubes every 90 minutes (real-time)
- Supported volumes 10-50 µL

## AREA REQUIREMENTS

Component	Width	Depth	Height	Weight
BAX <sup>®</sup> System Q7 instrument	34 cm (14 in)	45 cm (18 in)	49 cm (20 in)	~34.1 kg (75.0 lb)
Computer	19.1 cm (7.5 in)	42.7 cm (16.8 in)	45.0 cm (17.7 in)	6.8 kg (15.0 lb)
Monitor	43.2 cm (17 in)	25.4 cm (10 in)	45.7 cm (18 in)	6.8 kg (15.0 lb)
Keyboard	45.7 cm (18 in)	17.8 cm (7 in)	5.1 cm (2 in)	0.9 kg (2.0 lb)
Printer	43.2 cm (17 in)	35.5 cm (14 in)	15.2 cm (6 in)	3.4 kg (7.5 lb)



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