

The Infinity-48 System 

# The awe of Infinity is simplicity.

*One molecular platform. Limitless possibility.*



GeneXpert® Infinity-48

 **Cepheid**  
A better way.



"The Infinity platform has revolutionised the way that we work. The tests are far more sensitive and specific than our previous methods."

**Danya Cohen**  
Divisional Manager  
Imperial College Healthcare NHS Trust

# THE ULTIMATE IN STREAMLINED TESTING.



*Simplicity born of complexity.*

Today, the molecular lab is challenged by escalating clinical demands measured against declining budgets and a shortage of skilled labor. As testing volumes have increased, so too have the number of available platforms and diverse complexity of associated tests. Amid this complexity, one molecular diagnostic platform stands out: GeneXpert® Infinity-48. By improving test workflows while reducing time-to-result, the Infinity System delivers healthcare providers the full power of molecular diagnostics to make more informed patient management decisions. Simply put, the Infinity-48 is the most efficient, easiest to use molecular system — and the only one available on-demand, 24/7.



# INFINITE EASE.



*Load and go. Workflow Transformed.*

The Infinity-48 System's "Load and Go" technology is the apex of efficiency. It's the world's first walk-away molecular system: simply scan a GeneXpert® cartridge into the system and walk away. The Infinity-48 takes care of the rest. Cepheid's GeneXpert cartridge technology simplifies the process further by eliminating the need for bulk reagents, exposed fluidics, and cumbersome reagent management processes.

The result? The world's most efficient molecular diagnostic system with the capacity to generate more than 1,300 results per day — completely unlimited by the test sample types you choose to run. The GeneXpert Infinity-48 delivers an unprecedented, game-changing user experience.

SELF-CONTAINED  
REAGENT CARTRIDGES

HIGH VOLUME RANDOM ACCESS OR BATCH TESTING  
ENABLING "DROP-OFF" STAT TO BE RUN ON DEMAND

ROBOTIC GANTRY

16 TO 48 INDEPENDENT MODULES  
FOR 24/7 ON-DEMAND TESTING

SCANNER TO PERFORM  
SAMPLE VERIFICATION

INTELLIGENT SOFTWARE

AUTOLOADING: CONVEYOR WHICH  
LOADS CARTRIDGES FOR STAGING

SAMPLE DISPOSAL

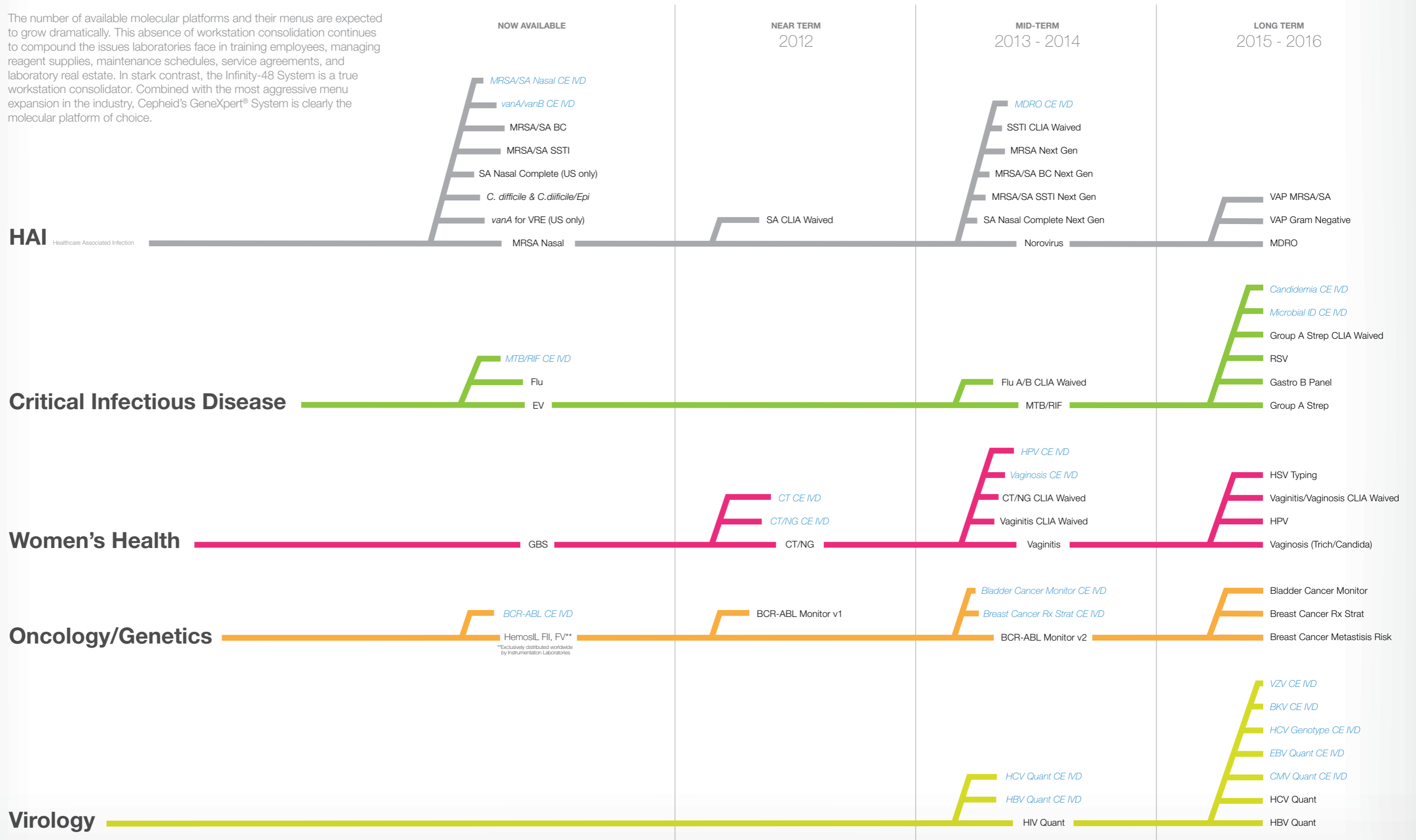


# INFINITE POTENTIAL.



## Consolidating the Future.

The number of available molecular platforms and their menus are expected to grow dramatically. This absence of workstation consolidation continues to compound the issues laboratories face in training employees, managing reagent supplies, maintenance schedules, service agreements, and laboratory real estate. In stark contrast, the Infinity-48 System is a true workstation consolidator. Combined with the most aggressive menu expansion in the industry, Cepheid's GeneXpert® System is clearly the molecular platform of choice.



# INFINITE INTELLIGENCE.



*Uncomplicated Brilliance.*

The Infinity-48 System's automated cartridge handling is managed by Cepheid's Xpertise™ software package. This software interfaces with any Laboratory Information System (LIS) or Hospital Information System (HIS) network to provide seamless real-time communication for all test orders and results. Cepheid's Xpertise™ software manages batch or on-demand workflows by prioritizing runs, identifying time remaining to results, and delivering true STAT capability — all from a single touchscreen.

## CONTINUOUS PEACE OF MIND.

By integrating near solid-state design technology, the GeneXpert® Infinity-48 requires minimal maintenance, making it available 24/7, 365 days a year. No need for daily preparation, reagent management, or fluidics that may contaminate the system — nor for shut-downs that delay processing or limit your testing capabilities. The continuous random access design of the Infinity-48 allows you the flexibility to run patient samples as they arrive, in batches, or any combination that optimizes your workflow.





## A better way.

Our modular approach guarantees exactly the same test results — whether you are running a sample on our single module GX-1 or the Infinity-48. Indeed, the workhorse at the heart of the United States Postal Service Biohazard Detection System — a system that's run over nine million tests without a single false positive — is that very same GeneXpert® module.

Modular platform design also means that a system can be configured to grow with the needs of an organization simply by adding modules as testing volumes expand. The Infinity-48 can be configured with 16, 24, 32, 40 or 48 modules. This unique scalability ensures that a single system can meet your needs today, tomorrow, and beyond.



GeneXpert® Module

# ONE MOLECULAR PLATFORM:



GeneXpert® I, II, IV, and XVI

GeneXpert® Infinity-48

### THE POWER OF INTEGRATED DEVELOPMENT AND MANUFACTURING.

Cepheid is the only fully integrated molecular company developing and manufacturing all of its products in-house, including its own primers and probes. Together with the flexibility of our cartridge technology, this provides for the highest level of quality control, while enabling greater predictability for product release dates.



# GeneXpert® Infinity-48

## SYSTEM

### Infinity-48

Automated, multi-module molecular diagnostics analyzer for on-demand access processing of Rt-PCR based clinical diagnostics.

### Number of Modules

16, 24, 32, 40 or 48

### Reagents

Cepheid test-specific, ready-to-use, barcoded kits

## SAMPLE

### Test Throughput (theoretical max)

>1,300 in 24 hours

### Walk-Away Capacity

111 samples per Infinity-48  
(48 loaded in modules, 63 queued)

### QC Method

GeneXpert® test includes internal controls to monitor sample, processing and performance.

### Sample Barcode Types

CODE 128, CODE 39

## ELECTRICAL REQUIREMENTS

### Power Requirements

Line voltage: 100-120 VAC, 20A(N. America)  
200-240 VAC, 16A(EU)  
Frequency: 50 Hz OR 60 Hz +/- 0.5 %

### Power Consumption

Max Current 20 Amps @ 120 VAC

## ENVIRONMENTAL REQUIREMENTS

Operating temperature: 15-30°C  
Ambient humidity: 10%-95% RH, non-condensing  
Heat output: Maximum 320 W/hr or 270 Kcal/hr  
Noise output: <60 dB

## PHYSICAL

### Dimensions

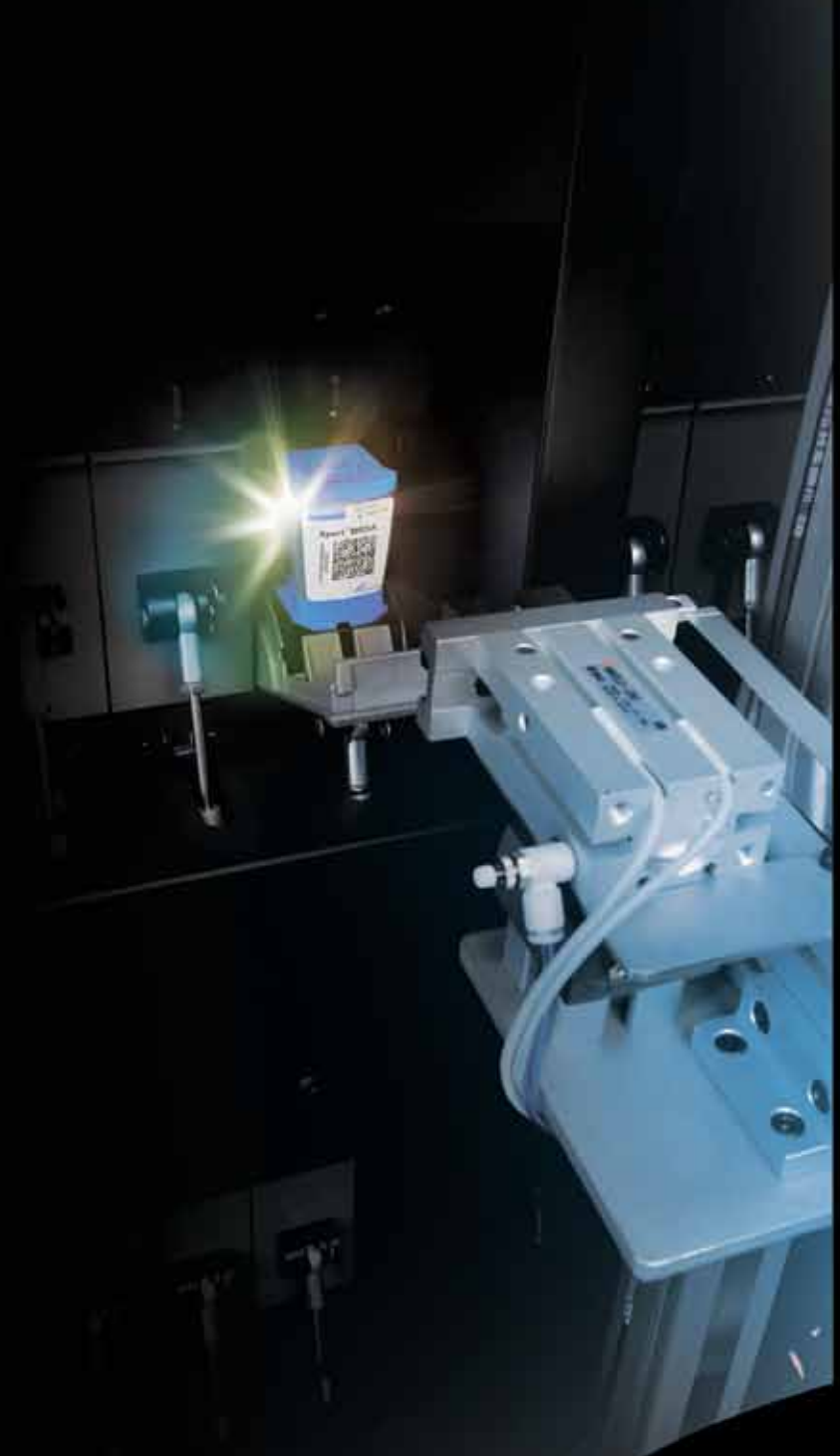
105.2" (267.2cm) L x 34.6" (87.9cm) W x 79.1" (200.9cm) H

### Pneumatic

Pressure: 620 to 690 Pa (90 to 100 psi)

### Weight

770.9 KG, 1700 LB



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